

BATCH SUMMARY

Batch ID: WG30036	Date: 19-Dec-2009
Analysis Type: PCB Congener	Matrix Type: Tissue
BATCH MAKEUP	
Contract: 4574 Samples: L13452-1 Chandler River- 6 Females L13452-3 Winnicut- 10 Males L13452-4 Tannery Brook- 10 Males L13452-5 Fore River- 6 Females L13452-6 Parker River- 10 Females L13452-8 North River- 3 Males L13452-9 North River- 2 Females L13452-10 Crane River -10 Females L13452-12 Squamscott R. - 10 Males L13452-14 Jones River- 10 Males L13452-15 Jones River- 10 Females L13452-17 Tannery Brook - 10 Females	Blank: WG30036-101 Reference or Spike: WG30036-102 Duplicate: WG30036-103
Comments: <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p>RESUBMISSION 12-Jan-10: File "30036LCS_PCB_2" contains corrections applied to the field RESULT_TYPE_CODE for Laboratory control spike sample AXYS ID: WG30036-102 regarding the description SC-Lower limit and (SC)-Higher limit. File was previously submitted with SC-Low and SC-High descriptions. All other data remains unchanged. PDF file of reports is also submitted. AW 12-Jan-10</p> <ol style="list-style-type: none"> 1. Data are not blank-corrected. 2. In all field samples except "Chandler River -6 Females", there was an interference affecting 13C-labeled PCB 206, making the recovery of this surrogate appear high. Native PCBs 206 and 207 have therefore been recalculated against labeled PCB 208. (PCB 206 is normally calculated against labeled PCB 206, PCB 207 against the average of labeled PCBs 206 and 208). This re-calculation against an alternative internal standard does not significantly affect the data. PCBs 206 and 207 are flagged "T", to indicate the deviation from the routine calculation. 3. In the duplication analysis, the relative percent differences for a few congeners exceeded the acceptance limit of 40%. These congeners, however, account for less than 0.1% of the total, and therefore the impact on the data is not significant. In view of the good overall duplication, there is no indication of analytical error. </div>	

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FQA-006 Rev. 2. 18-Jul-1994



Form 3A
PCB CONGENERS INITIAL CALIBRATION RELATIVE RESPONSES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB9C_274A S: 8

CS2 Data Filename: PB9C_274A S: 7

CS3 Data Filename: PB9C_274A S: 6

CS4 Data Filename: PB9C_274A S: 5

CS5 Data Filename: PB9C_274A S: 4

CS6 Data Filename: N/A

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV ² (%RSD)
				CS0	CS1	CS2	CS3	CS4	CS5		
2-MoCB	1				1.14	1.17	1.14	1.17	1.19	1.16	1.77
4-MoCB	3				1.10	1.10	1.09	1.11	1.12	1.10	1.17
2,2'-DiCB	4				0.90	0.91	0.93	0.94	0.95	0.93	1.80
4,4'-DiCB	15				0.94	0.97	0.98	1.02	1.01	0.98	3.35
2,2',6-TriCB	19				1.01	1.04	1.04	1.07	1.07	1.05	2.34
3,4,4'-TriCB	37				0.94	0.96	0.95	0.98	0.98	0.96	1.86
2,2',6,6'-TeCB	54				1.06	1.06	1.06	1.09	1.09	1.07	1.58
3,3',4,4'-TeCB	77				1.02	1.03	1.04	1.06	1.07	1.04	2.20
3,4,4',5-TeCB	81				0.98	1.00	0.99	1.02	1.00	1.00	1.31
2,2',4,6,6'-PeCB	104				1.08	1.09	1.09	1.12	1.11	1.10	1.35
2,3,3',4,4'-PeCB	105				0.95	0.95	0.97	1.00	1.01	0.98	2.69
2,3,4,4',5-PeCB	114				0.98	0.95	0.97	0.99	0.99	0.98	1.77
2,3',4,4',5-PeCB	118				0.92	0.93	0.93	0.95	0.96	0.94	1.84
2',3,4,4',5-PeCB	123				0.90	0.90	0.91	0.95	0.94	0.92	2.60
3,3',4,4',5-PeCB	126				0.88	0.96	0.99	1.01	0.99	0.97	5.17
2,2',4,4',6,6'-HxCB	155				0.96	0.98	1.00	1.03	1.04	1.00	3.24
2,3,3',4,4',5-HxCB	156	156 + 157	C		1.01	1.02	1.03	1.07	1.06	1.04	2.55
2,3,3',4,4',5-HxCB	157	156 + 157	C156								
2,3',4,4',5,5'-HxCB	167				0.98	1.03	1.04	1.06	1.07	1.04	3.48
3,3',4,4',5,5'-HxCB	169				0.95	1.03	1.01	1.05	1.05	1.02	4.02
2,2',3,4',5,6,6'-HpCB	188				1.00	1.02	1.01	1.06	1.06	1.03	2.72
2,3,3',4,4',5,5'-HpCB	189				0.83	0.86	0.87	0.91	0.89	0.87	3.65
2,2',3,3',5,5',6,6'-OcCB	202				0.86	0.83	0.90	0.93	0.93	0.89	4.82
2,3,3',4,4',5,5',6-OcCB	205				0.94	0.94	0.93	0.97	0.96	0.95	1.72
2,2',3,3',4,4',5,5',6-NoCB	206				1.07	1.06	1.05	1.09	1.09	1.07	1.77
2,2',3,3',4,5,5',6,6'-NoCB	208				0.96	1.03	0.99	1.03	1.04	1.01	3.21
2,2',3,3',4,4',5,5',6,6'-DeCB	209				0.94	1.05	1.03	1.06	1.07	1.03	5.28

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) For contract CV specifications, see Section 10.4.4, Method 1668A.

Approved by: _____ Jeffrey Chong _____ QA/QC Chemist



Form 3B
PCB CONGENERS INITIAL CALIBRATION RELATIVE RESPONSES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB9C_274A S: 8

CS2 Data Filename: PB9C_274A S: 7

CS3 Data Filename: PB9C_274A S: 6

CS4 Data Filename: PB9C_274A S: 5

CS5 Data Filename: PB9C_274A S: 4

CS6 Data Filename: N/A

COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RELATIVE RESPONSE (RR)						MEAN RR	CV ³ (%RSD)
				CS0	CS1	CS2	CS3	CS4	CS5		
13C12-2-MoCB	1L			0.99	0.98	0.99	0.96	0.98	0.98	1.47	
13C12-4-MoCB	3L			0.96	0.94	0.94	0.98	0.97	0.96	1.59	
13C12-2,2'-DiCB	4L			0.65	0.64	0.65	0.65	0.64	0.65	0.54	
13C12-4,4'-DiCB	15L			1.00	0.96	0.99	1.04	1.06	1.01	3.93	
13C12-2,2',6-TriCB	19L			0.49	0.50	0.49	0.49	0.49	0.49	0.63	
13C12-3,4,4'-TriCB	37L			1.74	1.68	1.72	1.83	1.82	1.76	3.62	
13C12-2,2',6,6'-TeCB	54L			1.34	1.37	1.33	1.32	1.32	1.34	1.55	
13C12-3,3',4,4'-TeCB	77L			1.28	1.26	1.27	1.35	1.33	1.30	3.21	
13C12-3,4,4',5'-TeCB	81L			1.29	1.27	1.28	1.39	1.39	1.32	4.69	
13C12-2,2',4,6,6'-PeCB	104L			1.21	1.18	1.20	1.20	1.24	1.21	1.66	
13C12-2,3,3',4,4'-PeCB	105L			1.31	1.30	1.28	1.39	1.40	1.34	4.06	
13C12-2,3,4,4',5'-PeCB	114L			1.37	1.35	1.33	1.42	1.49	1.39	4.50	
13C12-2,3',4,4',5'-PeCB	118L			1.36	1.35	1.34	1.44	1.46	1.39	3.80	
13C12-2',3,4,4',5'-PeCB	123L			1.36	1.36	1.34	1.43	1.47	1.39	3.95	
13C12-3,3',4,4',5'-PeCB	126L			1.15	1.17	1.13	1.25	1.26	1.19	4.82	
13C12-2,2',4,4',6,6'-HxCB	155L			1.43	1.39	1.41	1.38	1.46	1.42	2.25	
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	1.17	1.17	1.18	1.26	1.30	1.21	4.85	
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L								
13C12-3,3',4,4',5,5'-HxCB	167L			1.16	1.16	1.16	1.24	1.25	1.19	4.07	
13C12-3,3',4,4',5,5'-HxCB	169L			1.06	1.06	1.09	1.17	1.15	1.11	4.60	
13C12-2,2',3,4,5,6,6'-HpCB	188L			1.53	1.61	1.56	1.54	1.74	1.60	5.14	
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.37	1.42	1.37	1.43	1.53	1.43	4.46	
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			1.21	1.27	1.21	1.23	1.32	1.25	3.73	
13C12-2,3,3',4,4',5,5',6-OxCB	205L			1.28	1.29	1.29	1.33	1.40	1.32	3.81	
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.82	0.78	0.82	0.84	0.91	0.83	5.43	
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			1.09	1.10	1.09	1.12	1.22	1.12	4.74	
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			0.87	0.85	0.86	0.89	0.97	0.89	5.45	
CLEAN-UP STANDARD											
13C12-2,4,4'-TriCB	28L			1.89	1.92	1.87	1.84	1.83	1.87	1.94	
13C12-2,3,3',5,5'-PeCB	111L			1.24	1.25	1.23	1.28	1.30	1.26	2.10	
13C12-2,2',3,3',5,5',6-HpCB	178L			0.86	0.87	0.86	0.85	0.85	0.86	1.15	

(1) Suffix "L" indicates labeled compound.

(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(3) For contract CV specifications, see Section 10.4.4, Method 1668A.

Approved by: _____ Jeffrey Chong _____ QA/QC Chemist



Form 3C
PCB CONGENER INITIAL CALIBRATION ION ABUNDANCE RATIOS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB9C_274A S: 8

CS2 Data Filename: PB9C_274A S: 7

CS3 Data Filename: PB9C_274A S: 6

CS4 Data Filename: PB9C_274A S: 5

CS5 Data Filename: PB9C_274A S: 4

CS6 Data Filename: N/A

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	M/Z's FORMING RATIO ²	ION ABUNDANCE RATIO						QC LIMITS ²
					CS0	CS1	CS2	CS3	CS4	CS5	
2-MoCB	1			M/M+2	3.08	3.09	3.07	3.06	3.09		2.66-3.60
4-MoCB	3			M/M+2	3.23	3.12	3.10	3.08	3.09		2.66-3.60
2,2'-DiCB	4			M/M+2	1.60	1.55	1.53	1.50	1.52		1.33-1.79
4,4'-DiCB	15			M/M+2	1.74	1.56	1.55	1.53	1.53		1.33-1.79
2,2',6-TriCB	19			M/M+2	1.05	1.07	1.06	1.06	1.06		0.88-1.20
3,4,4'-TriCB	37			M/M+2	1.05	1.03	1.02	1.02	1.02		0.88-1.20
2,2',6,6'-TeCB	54			M/M+2	0.79	0.79	0.80	0.80	0.80		0.65-0.89
3,3',4,4'-TeCB	77			M/M+2	0.76	0.76	0.77	0.77	0.77		0.65-0.89
3,4,4',5-TeCB	81			M/M+2	0.77	0.79	0.77	0.77	0.77		0.65-0.89
2,2',4,6,6'-PeCB	104			M+2/M+4	1.50	1.56	1.60	1.58	1.58		1.32-1.78
2,3,3',4,4'-PeCB	105			M+2/M+4	1.62	1.63	1.56	1.54	1.53		1.32-1.78
2,3,4,4',5-PeCB	114			M+2/M+4	1.70	1.51	1.56	1.56	1.55		1.32-1.78
2,3',4,4',5-PeCB	118			M+2/M+4	1.65	1.57	1.53	1.55	1.54		1.32-1.78
2',3,4,4',5-PeCB	123			M+2/M+4	1.54	1.48	1.53	1.54	1.54		1.32-1.78
3,3',4,4',5-PeCB	126			M+2/M+4	1.49	1.49	1.55	1.55	1.55		1.32-1.78
2,2',4,4',6,6'-HxCB	155			M+2/M+4	1.26	1.22	1.26	1.27	1.26		1.05-1.43
2,3,3',4,4',5-HxCB	156	156 + 157	C	M+2/M+4	1.28	1.23	1.27	1.26	1.26		1.05-1.43
2,3,3',4,4',5'-HxCB	157	156 + 157	C156								
2,3',4,4',5,5'-HxCB	167			M+2/M+4	1.41	1.22	1.26	1.26	1.26		1.05-1.43
3,3',4,4',5,5'-HxCB	169			M+2/M+4	1.22	1.28	1.25	1.26	1.27		1.05-1.43
2,2',3,4',5,6,6'-HpCB	188			M+2/M+4	0.99	1.10	1.04	1.04	1.05		0.89-1.21
2,3,3',4,4',5,5'-HpCB	189			M+2/M+4	0.96	1.04	1.02	1.01	1.01		0.89-1.21
2,2',3,3',5,5',6,6'-OcCB	202			M+2/M+4	0.92	0.89	0.92	0.91	0.90		0.76-1.02
2,3,3',4,4',5,5',6-OcCB	205			M+2/M+4	0.89	0.92	0.90	0.90	0.90		0.76-1.02
2,2',3,3',4,4',5,5',6-NoCB	206			M+2/M+4	0.77	0.79	0.79	0.78	0.79		0.65-0.89
2,2',3,3',4,5,5',6,6'-NoCB	208			M+2/M+4	0.73	0.80	0.80	0.79	0.78		0.65-0.89
2,2',3,3',4,4',5,5',6,6'-DeCB	209			M+2/M+4	0.62	0.68	0.71	0.69	0.70		0.59-0.79

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) See Table 8 Method 1668A for m/z specifications and ion abundance ratio control limits.

Approved by: _____ Jeffrey Chong _____ QA/QC Chemist



Form 3D
PCB CONGENER INITIAL CALIBRATION ION ABUNDANCE RATIOS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB9C_274A S: 8

CS2 Data Filename: PB9C_274A S: 7

CS3 Data Filename: PB9C_274A S: 6

CS4 Data Filename: PB9C_274A S: 5

CS5 Data Filename: PB9C_274A S: 4

CS6 Data Filename: N/A

LABELED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	M/Z's FORMING RATIO ³	ION ABUNDANCE RATIO						QC LIMITS ³
					CS0	CS1	CS2	CS3	CS4	CS5	
13C12-2-MoCB	1L			M/M+2	3.24	3.24	3.24	3.27	3.25		2.66-3.60
13C12-4-MoCB	3L			M/M+2	3.17	3.22	3.19	3.19	3.19		2.66-3.60
13C12-2,2'-DiCB	4L			M/M+2	1.60	1.60	1.59	1.60	1.61		1.33-1.79
13C12-4,4'-DiCB	15L			M/M+2	1.60	1.61	1.60	1.60	1.60		1.33-1.79
13C12-2,2',6-TriCB	19L			M/M+2	1.06	1.05	1.06	1.06	1.06		0.88-1.20
13C12-3,4,4'-TriCB	37L			M/M+2	1.05	1.04	1.05	1.06	1.05		0.88-1.20
13C12-2,2',6,6'-TeCB	54L			M/M+2	0.81	0.81	0.81	0.81	0.81		0.65-0.89
13C12-3,3',4,4'-TeCB	77L			M/M+2	0.80	0.80	0.80	0.80	0.80		0.65-0.89
13C12-3,4,4',5-TeCB	81L			M/M+2	0.80	0.80	0.79	0.80	0.80		0.65-0.89
13C12-2,2',4,6,6'-PeCB	104L			M+2/M+4	1.59	1.60	1.60	1.58	1.62		1.32-1.78
13C12-2,3,3',4,4'-PeCB	105L			M+2/M+4	1.58	1.56	1.58	1.60	1.58		1.32-1.78
13C12-2,3,4,4',5-PeCB	114L			M+2/M+4	1.61	1.63	1.60	1.61	1.59		1.32-1.78
13C12-2,3',4,4',5-PeCB	118L			M+2/M+4	1.59	1.59	1.57	1.60	1.56		1.32-1.78
13C12-2',3,4,4',5-PeCB	123L			M+2/M+4	1.58	1.60	1.58	1.57	1.58		1.32-1.78
13C12-3,3',4,4',5-PeCB	126L			M+2/M+4	1.55	1.58	1.57	1.59	1.59		1.32-1.78
13C12-2,2',4,4',6,6'-HxCB	155L			M+2/M+4	1.26	1.25	1.24	1.25	1.26		1.05-1.43
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	M+2/M+4	1.32	1.31	1.29	1.30	1.31		1.05-1.43
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L	M+2/M+4	1.30	1.28	1.29	1.29	1.30		1.05-1.43
13C12-2,3',4,4',5,5'-HxCB	167L			M+2/M+4	1.27	1.28	1.28	1.28	1.28		1.05-1.43
13C12-3,3',4,4',5,5'-HxCB	169L			M+2/M+4	1.27	1.28	1.28	1.28	1.28		1.05-1.43
13C12-2,2',3,4',5,6,6'-HpCB	188L			M+2/M+4	1.06	1.07	1.05	1.06	1.05		0.89-1.21
13C12-2,3,3',4,4',5,5'-HpCB	189L			M+2/M+4	1.08	1.05	1.08	1.07	1.09		0.89-1.21
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			M+2/M+4	0.91	0.90	0.90	0.92	0.90		0.76-1.02
13C12-2,3,3',4,4',5,5',6-OxCB	205L			M+2/M+4	0.93	0.94	0.92	0.91	0.93		0.76-1.02
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			M+2/M+4	0.81	0.78	0.79	0.81	0.80		0.65-0.89
13C12-2,2',3,3',4,4',5,5',6,6'-NoCB	208L			M+2/M+4	0.80	0.81	0.78	0.79	0.79		0.65-0.89
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			M+4/M+6	1.19	1.18	1.20	1.19	1.20		0.99-1.33
CLEAN-UP STANDARD											
13C12-2,4,4'-TriCB	28L			M/M+2	1.05	1.05	1.05	1.05	1.05		0.88-1.20
13C12-2,3,3',5,5'-PeCB	111L			M+2/M+4	1.60	1.59	1.60	1.59	1.60		1.32-1.78
13C12-2,2',3,3',5,5',6-HpCB	178L			M+2/M+4	1.05	1.06	1.03	1.07	1.06		0.89-1.21

(1) Suffix "L" indicates labeled compound.

(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(3) See Table 8 Method 1668A for m/z specifications and ion abundance ratio control limits.

Approved by: _____ Jeffrey Chong _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No.

SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.:

L13452-1

Matrix: TISSUE

Sample Size:

10.8 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date:

01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID:

HR GC/MS

Analysis Date: 16-Oct-2009 **Time:** 13:38:42

GC Column ID:

SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename:

PB9C_312 S: 6

Injection Volume (uL): 1.0

Blank Data Filename:

PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename:

PB9C_312 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture:
% Lipid:

79.0
 1.55

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		0.831
Total Dichloro Biphenyls		11.3
Total Trichloro Biphenyls		162
Total Tetrachloro Biphenyls		1000
Total Pentachloro Biphenyls		3400
Total Hexachloro Biphenyls		5540
Total Heptachloro Biphenyls		2270
Total Octachloro Biphenyls		499
Total Nonachloro Biphenyls		90.9
Decachloro Biphenyl		24.1
TOTAL PCBs		13000

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 16-Oct-2009 **Time:** 13:38:42

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-1

Sample Size: 2.26 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: **PB9C_312 S: 6**
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_312 S: 1

% Moisture: 79.0
% Lipid: 1.55

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		3.95
Total Dichloro Biphenyls		53.7
Total Trichloro Biphenyls		770
Total Tetrachloro Biphenyls		4770
Total Pentachloro Biphenyls		16200
Total Hexachloro Biphenyls		26400
Total Heptachloro Biphenyls		10800
Total Octachloro Biphenyls		2370
Total Nonachloro Biphenyls		433
Decachloro Biphenyl		115
TOTAL PCBs		61900

(1) Where applicable, custom lab flags have been used on this report.
 (2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ **Brian Watson** _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-1

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 16-Oct-2009 Time: 13:38:42
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (lipid weight basis)

Sample Size: 0.167 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_312 S: 6
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_312 S: 1
% Moisture: 79.0
% Lipid: 1.55

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		53.5
Total Dichloro Biphenyls		727
Total Trichloro Biphenyls		10400
Total Tetrachloro Biphenyls		64700
Total Pentachloro Biphenyls		220000
Total Hexachloro Biphenyls		357000
Total Heptachloro Biphenyls		146000
Total Octachloro Biphenyls		32200
Total Nonachloro Biphenyls		5860
Decachloro Biphenyl		1560
TOTAL PCBs		838000

(1) Where applicable, custom lab flags have been used on this report.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-1_Form1AHT_SJ1077142_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River- 6 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.8 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-1
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_312 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			11.9	0.236	0.0001	1.19e-03	1.19e-03	1.19e-03
3,4,4',5-TeCB	81			0.408	0.239	0.0003	1.22e-04	1.22e-04	1.22e-04
2,3,3',4,4'-PeCB	105			245	0.544	0.00003	7.35e-03	7.35e-03	7.35e-03
2,3,4,4',5-PeCB	114			12.1	0.550	0.00003	3.63e-04	3.63e-04	3.63e-04
2,3',4,4',5-PeCB	118			693	0.547	0.00003	2.08e-02	2.08e-02	2.08e-02
2',3,4,4',5-PeCB	123			8.72	0.545	0.00003	2.62e-04	2.62e-04	2.62e-04
3,3',4,4',5-PeCB	126			3.31	0.560	0.1	3.31e-01	3.31e-01	3.31e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	93.8	0.361	0.00003	2.81e-03	2.81e-03	2.81e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			48.6	0.255	0.00003	1.46e-03	1.46e-03	1.46e-03
3,3',4,4',5,5'-HxCB	169		U		1.04	0.03	0.00e+00	1.56e-02	3.12e-02
2,3,3',4,4',5,5'-HpCB	189			6.86	0.0884	0.00003	2.06e-04	2.06e-04	2.06e-04
TOTAL TEQ							0.366	0.381	0.397

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-1_TEQ_SJ1077142.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River- 6 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-1

Sample Size: 2.26 g (dry)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (dry weight basis)

Sample Data Filename(s): PB9C_312 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			56.7	1.12	0.0001	5.67e-03	5.67e-03	5.67e-03
3,4,4',5-TeCB	81			1.94	1.14	0.0003	5.82e-04	5.82e-04	5.82e-04
2,3,3',4,4'-PeCB	105			1170	2.59	0.00003	3.51e-02	3.51e-02	3.51e-02
2,3,4,4',5-PeCB	114			57.6	2.62	0.00003	1.73e-03	1.73e-03	1.73e-03
2,3',4,4',5-PeCB	118			3300	2.60	0.00003	9.90e-02	9.90e-02	9.90e-02
2',3,4,4',5-PeCB	123			41.5	2.59	0.00003	1.25e-03	1.25e-03	1.25e-03
3,3',4,4',5-PeCB	126			15.8	2.67	0.1	1.58e+00	1.58e+00	1.58e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	447	1.72	0.00003	1.34e-02	1.34e-02	1.34e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			231	1.21	0.00003	6.93e-03	6.93e-03	6.93e-03
3,3',4,4',5,5'-HxCB	169		U		4.95	0.03	0.00e+00	7.43e-02	1.49e-01
2,3,3',4,4',5,5'-HpCB	189			32.7	0.421	0.00003	9.81e-04	9.81e-04	9.81e-04
TOTAL TEQ							1.74	1.82	1.89

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-1_TEQ_SJ1077142_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River- 6 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-1

Sample Size: 0.167 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_312 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			768	15.2	0.0001	7.68e-02	7.68e-02	7.68e-02
3,4,4',5-TeCB	81			26.3	15.5	0.0003	7.89e-03	7.89e-03	7.89e-03
2,3,3',4,4'-PeCB	105			15900	35.1	0.00003	4.77e-01	4.77e-01	4.77e-01
2,3,4,4',5-PeCB	114			781	35.5	0.00003	2.34e-02	2.34e-02	2.34e-02
2,3',4,4',5-PeCB	118			44700	35.2	0.00003	1.34e+00	1.34e+00	1.34e+00
2',3,4,4',5-PeCB	123			562	35.1	0.00003	1.69e-02	1.69e-02	1.69e-02
3,3',4,4',5-PeCB	126			214	36.2	0.1	2.14e+01	2.14e+01	2.14e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	6060	23.3	0.00003	1.82e-01	1.82e-01	1.82e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			3130	16.4	0.00003	9.39e-02	9.39e-02	9.39e-02
3,3',4,4',5,5'-HxCB	169		U		67.1	0.03	0.00e+00	1.01e+00	2.01e+00
2,3,3',4,4',5,5'-HpCB	189			443	5.71	0.00003	1.33e-02	1.33e-02	1.33e-02
TOTAL TEQ							23.6	24.6	25.6

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-1_TEQ_SJ1077142_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Winnicut- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No.

SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.:

L13452-3

Matrix: TISSUE

Sample Size:

10.3 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date:

01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID:

HR GC/MS

Analysis Date: 16-Oct-2009 Time: 14:43:04

GC Column ID:

SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s):

PB9C_312 S: 7, PB9C_358 S: 4

Injection Volume (uL): 1.0

Blank Data Filename:

PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename:

PB9C_312 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture:

78.9

% Lipid:

1.32

PCB HOMOLOGUE GROUP

LAB
FLAG ¹

CONC.
FOUND

Total Monochloro Biphenyls

0.578

Total Dichloro Biphenyls

19.9

Total Trichloro Biphenyls

476

Total Tetrachloro Biphenyls

5350

Total Pentachloro Biphenyls

20500

Total Hexachloro Biphenyls

22800

Total Heptachloro Biphenyls

8690

Total Octachloro Biphenyls

1760

Total Nonachloro Biphenyls

365

Decachloro Biphenyl

121

TOTAL PCBs

60100

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xml; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-3_Form1AHT_SJ1077144.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Winnicut- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 16-Oct-2009 **Time:** 14:43:04

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-3

Sample Size: 2.18 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename(s): **PB9C_312 S: 7, PB9C_358 S: 4**

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_312 S: 1

% Moisture: 78.9
% Lipid: 1.32

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		2.74
Total Dichloro Biphenyls		93.9
Total Trichloro Biphenyls		2250
Total Tetrachloro Biphenyls		25300
Total Pentachloro Biphenyls		97200
Total Hexachloro Biphenyls		108000
Total Heptachloro Biphenyls		41100
Total Octachloro Biphenyls		8340
Total Nonachloro Biphenyls		1730
Decachloro Biphenyl		572
TOTAL PCBs		284000

(1) Where applicable, custom lab flags have been used on this report.
 (2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ **Brian Watson** _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xml; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-3_Form1AHT_SJ1077144_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Winnicut- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No.

SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.:

L13452-3

Matrix: TISSUE

Sample Size:

0.136 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date:

01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID:

HR GC/MS

Analysis Date: 16-Oct-2009 **Time:** 14:43:04

GC Column ID:

SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s):

PB9C_312 S: 7, PB9C_358 S: 4

Injection Volume (uL): 1.0

Blank Data Filename:

PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename:

PB9C_312 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture:
% Lipid:

78.9
 1.32

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		43.9
Total Dichloro Biphenyls		1510
Total Trichloro Biphenyls		36200
Total Tetrachloro Biphenyls		406000
Total Pentachloro Biphenyls		1560000
Total Hexachloro Biphenyls		1730000
Total Heptachloro Biphenyls		660000
Total Octachloro Biphenyls		134000
Total Nonachloro Biphenyls		27700
Decachloro Biphenyl		9170
TOTAL PCBs		4560000

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ **Brian Watson** _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Winnicut- 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.3 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-3
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_312 S: 7
PB9C_358 S: 4

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			56.9	0.667	0.0001	5.69e-03	5.69e-03	5.69e-03
3,4,4',5-TeCB	81			1.91	0.656	0.0003	5.73e-04	5.73e-04	5.73e-04
2,3,3',4,4'-PeCB	105			1260	2.18	0.00003	3.78e-02	3.78e-02	3.78e-02
2,3,4,4',5-PeCB	114			61.1	2.17	0.00003	1.83e-03	1.83e-03	1.83e-03
2,3',4,4',5-PeCB	118			3890	2.22	0.00003	1.17e-01	1.17e-01	1.17e-01
2',3,4,4',5-PeCB	123			50.9	2.11	0.00003	1.53e-03	1.53e-03	1.53e-03
3,3',4,4',5-PeCB	126			12.6	2.11	0.1	1.26e+00	1.26e+00	1.26e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	452	1.12	0.00003	1.36e-02	1.36e-02	1.36e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			228	0.799	0.00003	6.84e-03	6.84e-03	6.84e-03
3,3',4,4',5,5'-HxCB	169		U		3.06	0.03	0.00e+00	4.59e-02	9.18e-02
2,3,3',4,4',5,5'-HpCB	189			27.0	0.221	0.00003	8.10e-04	8.10e-04	8.10e-04
TOTAL TEQ							1.45	1.49	1.54

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-3_TEQ_SJ1077144.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Winnicut- 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.18 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-3
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_312 S: 7
PB9C_358 S: 4

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			269	3.15	0.0001	2.69e-02	2.69e-02	2.69e-02
3,4,4',5-TeCB	81			9.03	3.10	0.0003	2.71e-03	2.71e-03	2.71e-03
2,3,3',4,4'-PeCB	105			5960	10.3	0.00003	1.79e-01	1.79e-01	1.79e-01
2,3,4,4',5-PeCB	114			289	10.3	0.00003	8.67e-03	8.67e-03	8.67e-03
2,3',4,4',5-PeCB	118			18400	10.5	0.00003	5.52e-01	5.52e-01	5.52e-01
2',3,4,4',5-PeCB	123			241	9.98	0.00003	7.23e-03	7.23e-03	7.23e-03
3,3',4,4',5-PeCB	126			59.6	9.98	0.1	5.96e+00	5.96e+00	5.96e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	2140	5.30	0.00003	6.42e-02	6.42e-02	6.42e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			1080	3.78	0.00003	3.24e-02	3.24e-02	3.24e-02
3,3',4,4',5,5'-HxCB	169		U		14.5	0.03	0.00e+00	2.18e-01	4.35e-01
2,3,3',4,4',5,5'-HpCB	189			128	1.05	0.00003	3.84e-03	3.84e-03	3.84e-03
TOTAL TEQ							6.84	7.05	7.27

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-3_TEQ_SJ1077144_Dry.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Winnicut- 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-3

Sample Size: 0.136 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s):

PB9C_312 S: 7
PB9C_358 S: 4

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			4310	50.5	0.0001	4.31e-01	4.31e-01	4.31e-01
3,4,4',5-TeCB	81			145	49.7	0.0003	4.35e-02	4.35e-02	4.35e-02
2,3,3',4,4'-PeCB	105			95600	165	0.00003	2.87e+00	2.87e+00	2.87e+00
2,3,4,4',5-PeCB	114			4630	165	0.00003	1.39e-01	1.39e-01	1.39e-01
2,3',4,4',5-PeCB	118			295000	168	0.00003	8.85e+00	8.85e+00	8.85e+00
2',3,4,4',5-PeCB	123			3860	160	0.00003	1.16e-01	1.16e-01	1.16e-01
3,3',4,4',5-PeCB	126			956	160	0.1	9.56e+01	9.56e+01	9.56e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	34300	85.0	0.00003	1.03e+00	1.03e+00	1.03e+00
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			17300	60.6	0.00003	5.19e-01	5.19e-01	5.19e-01
3,3',4,4',5,5'-HxCB	169		U		233	0.03	0.00e+00	3.50e+00	6.99e+00
2,3,3',4,4',5,5'-HpCB	189			2050	16.8	0.00003	6.15e-02	6.15e-02	6.15e-02
TOTAL TEQ							110	113	117

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-3_TEQ_SJ1077144_Lipid.html; Workgroup: WG30036; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-4

Matrix: TISSUE

Sample Size: 10.8 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 16-Oct-2009 Time: 15:47:28

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_312 S: 8

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_312 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture: 78.9
% Lipid: 2.05

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		0.765
Total Dichloro Biphenyls		29.5
Total Trichloro Biphenyls		263
Total Tetrachloro Biphenyls		1680
Total Pentachloro Biphenyls		6410
Total Hexachloro Biphenyls		9000
Total Heptachloro Biphenyls		3630
Total Octachloro Biphenyls		674
Total Nonachloro Biphenyls		176
Decachloro Biphenyl		71.9
TOTAL PCBs		21900

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-4_Form1AHT_SJ1077146.html; Workgroup: WG30036; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-4

Matrix: TISSUE

Sample Size: 2.28 g (dry)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 16-Oct-2009 Time: 15:47:28

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_312 S: 8

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_312 S: 1

Concentration Units: pg/g (dry weight basis)

% Moisture: 78.9
% Lipid: 2.05

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		3.63
Total Dichloro Biphenyls		140
Total Trichloro Biphenyls		1240
Total Tetrachloro Biphenyls		7980
Total Pentachloro Biphenyls		30400
Total Hexachloro Biphenyls		42700
Total Heptachloro Biphenyls		17200
Total Octachloro Biphenyls		3200
Total Nonachloro Biphenyls		834
Decachloro Biphenyl		341
TOTAL PCBs		104000

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-4

Matrix: TISSUE

Sample Size: 0.221 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 16-Oct-2009 Time: 15:47:28

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_312 S: 8

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_312 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 78.9
% Lipid: 2.05

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		37.4
Total Dichloro Biphenyls		1440
Total Trichloro Biphenyls		12800
Total Tetrachloro Biphenyls		82300
Total Pentachloro Biphenyls		313000
Total Hexachloro Biphenyls		440000
Total Heptachloro Biphenyls		177000
Total Octachloro Biphenyls		32900
Total Nonachloro Biphenyls		8600
Decachloro Biphenyl		3520
TOTAL PCBs		1070000

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook- 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.8 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-4
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_312 S: 8

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			14.7	1.83	0.0001	1.47e-03	1.47e-03	1.47e-03
3,4,4',5-TeCB	81		U		1.87	0.0003	0.00e+00	2.81e-04	5.61e-04
2,3,3',4,4'-PeCB	105			369	2.13	0.00003	1.11e-02	1.11e-02	1.11e-02
2,3,4,4',5-PeCB	114			19.1	2.18	0.00003	5.73e-04	5.73e-04	5.73e-04
2,3',4,4',5-PeCB	118			1150	2.10	0.00003	3.45e-02	3.45e-02	3.45e-02
2',3,4,4',5-PeCB	123			15.8	2.22	0.00003	4.74e-04	4.74e-04	4.74e-04
3,3',4,4',5-PeCB	126			3.07	2.31	0.1	3.07e-01	3.07e-01	3.07e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	140	1.24	0.00003	4.20e-03	4.20e-03	4.20e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			74.5	0.886	0.00003	2.24e-03	2.24e-03	2.24e-03
3,3',4,4',5,5'-HxCB	169		U		1.46	0.03	0.00e+00	2.19e-02	4.38e-02
2,3,3',4,4',5,5'-HpCB	189			11.2	0.129	0.00003	3.36e-04	3.36e-04	3.36e-04
TOTAL TEQ							0.362	0.384	0.406

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-4_TEQ_SJ1077146.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook- 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.28 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-4
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_312 S: 8

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			69.7	8.67	0.0001	6.97e-03	6.97e-03	6.97e-03
3,4,4',5-TeCB	81		U		8.86	0.0003	0.00e+00	1.33e-03	2.66e-03
2,3,3',4,4'-PeCB	105			1750	10.1	0.00003	5.25e-02	5.25e-02	5.25e-02
2,3,4,4',5-PeCB	114			90.5	10.3	0.00003	2.72e-03	2.72e-03	2.72e-03
2,3',4,4',5-PeCB	118			5450	9.95	0.00003	1.64e-01	1.64e-01	1.64e-01
2',3,4,4',5-PeCB	123			74.9	10.5	0.00003	2.25e-03	2.25e-03	2.25e-03
3,3',4,4',5-PeCB	126			14.5	10.9	0.1	1.45e+00	1.45e+00	1.45e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	664	5.88	0.00003	1.99e-02	1.99e-02	1.99e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			353	4.20	0.00003	1.06e-02	1.06e-02	1.06e-02
3,3',4,4',5,5'-HxCB	169		U		6.92	0.03	0.00e+00	1.04e-01	2.08e-01
2,3,3',4,4',5,5'-HpCB	189			53.1	0.611	0.00003	1.59e-03	1.59e-03	1.59e-03
TOTAL TEQ							1.71	1.82	1.92

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-4_TEQ_SJ1077146_Dry.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook- 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-4

Sample Size: 0.221 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_312 S: 8

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			719	89.4	0.0001	7.19e-02	7.19e-02	7.19e-02	
3,4,4',5-TeCB	81		U		91.4	0.0003	0.00e+00	1.37e-02	2.74e-02	
2,3,3',4,4'-PeCB	105			18000	104	0.00003	5.40e-01	5.40e-01	5.40e-01	
2,3,4,4',5-PeCB	114			933	106	0.00003	2.80e-02	2.80e-02	2.80e-02	
2,3',4,4',5-PeCB	118			56200	103	0.00003	1.69e+00	1.69e+00	1.69e+00	
2',3,4,4',5-PeCB	123			772	108	0.00003	2.32e-02	2.32e-02	2.32e-02	
3,3',4,4',5-PeCB	126			150	112	0.1	1.50e+01	1.50e+01	1.50e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	6850	60.6	0.00003	2.06e-01	2.06e-01	2.06e-01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			3640	43.3	0.00003	1.09e-01	1.09e-01	1.09e-01	
3,3',4,4',5,5'-HxCB	169		U		71.4	0.03	0.00e+00	1.07e+00	2.14e+00	
2,3,3',4,4',5,5'-HpCB	189			548	6.30	0.00003	1.64e-02	1.64e-02	1.64e-02	
TOTAL TEQ								17.7	18.8	19.8

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-4_TEQ_SJ1077146_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No.

SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.:

L13452-5

Matrix: TISSUE

Sample Size:

10.2 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date:

01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID:

HR GC/MS

Analysis Date: 16-Oct-2009 Time: 16:51:52

GC Column ID:

SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s):

PB9C_312 S: 9, PB9C_359 S: 7

Injection Volume (uL): 1.0

Blank Data Filename:

PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename:

PB9C_312 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture:

79.0

% Lipid:

1.63

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		2.54
Total Dichloro Biphenyls		83.2
Total Trichloro Biphenyls		1520
Total Tetrachloro Biphenyls		13200
Total Pentachloro Biphenyls		46300
Total Hexachloro Biphenyls		70100
Total Heptachloro Biphenyls		28100
Total Octachloro Biphenyls		5960
Total Nonachloro Biphenyls		951
Decachloro Biphenyl		244
TOTAL PCBs		166000

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No.

SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.:

L13452-5

Matrix: TISSUE

Sample Size:

2.14 g (dry)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date:

01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID:

HR GC/MS

Analysis Date: 16-Oct-2009 Time: 16:51:52

GC Column ID:

SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s):

PB9C_312 S: 9, PB9C_359 S: 7

Injection Volume (uL): 1.0

Blank Data Filename:

PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename:

PB9C_312 S: 1

Concentration Units: pg/g (dry weight basis)

% Moisture:

79.0

% Lipid:

1.63

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		12.1
Total Dichloro Biphenyls		397
Total Trichloro Biphenyls		7250
Total Tetrachloro Biphenyls		63200
Total Pentachloro Biphenyls		221000
Total Hexachloro Biphenyls		335000
Total Heptachloro Biphenyls		134000
Total Octachloro Biphenyls		28500
Total Nonachloro Biphenyls		4550
Decachloro Biphenyl		1160
TOTAL PCBs		795000

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-5_Form1AHT_SJ1077148_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-5
Sample Size: 0.167 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename(s): PB9C_312 S: 9, PB9C_359 S: 7
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_312 S: 1
% Moisture: 79.0
% Lipid: 1.63

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 16-Oct-2009 Time: 16:51:52
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (lipid weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		155
Total Dichloro Biphenyls		5100
Total Trichloro Biphenyls		93100
Total Tetrachloro Biphenyls		811000
Total Pentachloro Biphenyls		2830000
Total Hexachloro Biphenyls		4300000
Total Heptachloro Biphenyls		1720000
Total Octachloro Biphenyls		365000
Total Nonachloro Biphenyls		58400
Decachloro Biphenyl		14900
TOTAL PCBs		1.02E+07

(1) Where applicable, custom lab flags have been used on this report.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River- 6 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.2 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-5
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_312 S: 9
PB9C_359 S: 7

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			148	1.11	0.0001	1.48e-02	1.48e-02	1.48e-02
3,4,4',5-TeCB	81			6.96	1.02	0.0003	2.09e-03	2.09e-03	2.09e-03
2,3,3',4,4'-PeCB	105			3640	19.7	0.00003	1.09e-01	1.09e-01	1.09e-01
2,3,4,4',5-PeCB	114			152	9.97	0.00003	4.56e-03	4.56e-03	4.56e-03
2,3',4,4',5-PeCB	118			9830	17.6	0.00003	2.95e-01	2.95e-01	2.95e-01
2',3,4,4',5-PeCB	123			172	9.95	0.00003	5.16e-03	5.16e-03	5.16e-03
3,3',4,4',5-PeCB	126			48.8	10.4	0.1	4.88e+00	4.88e+00	4.88e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	1830	3.00	0.00003	5.49e-02	5.49e-02	5.49e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			931	2.07	0.00003	2.79e-02	2.79e-02	2.79e-02
3,3',4,4',5,5'-HxCB	169		U		7.85	0.03	0.00e+00	1.18e-01	2.36e-01
2,3,3',4,4',5,5'-HpCB	189			119	0.382	0.00003	3.57e-03	3.57e-03	3.57e-03
TOTAL TEQ							5.40	5.51	5.63

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-5_TEQ_SJ1077148.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River- 6 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.14 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-5
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_312 S: 9
PB9C_359 S: 7

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			706	5.30	0.0001	7.06e-02	7.06e-02	7.06e-02
3,4,4',5-TeCB	81			33.2	4.87	0.0003	9.96e-03	9.96e-03	9.96e-03
2,3,3',4,4'-PeCB	105			17400	94.0	0.00003	5.22e-01	5.22e-01	5.22e-01
2,3,4,4',5-PeCB	114			726	47.6	0.00003	2.18e-02	2.18e-02	2.18e-02
2,3',4,4',5-PeCB	118			46900	84.0	0.00003	1.41e+00	1.41e+00	1.41e+00
2',3,4,4',5-PeCB	123			821	47.5	0.00003	2.46e-02	2.46e-02	2.46e-02
3,3',4,4',5-PeCB	126			233	49.6	0.1	2.33e+01	2.33e+01	2.33e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	8740	14.3	0.00003	2.62e-01	2.62e-01	2.62e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			4440	9.88	0.00003	1.33e-01	1.33e-01	1.33e-01
3,3',4,4',5,5'-HxCB	169		U		37.5	0.03	0.00e+00	5.63e-01	1.13e+00
2,3,3',4,4',5,5'-HpCB	189			568	1.82	0.00003	1.70e-02	1.70e-02	1.70e-02
TOTAL TEQ							25.8	26.3	26.9

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-5_TEQ_SJ1077148_Dry.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River- 6 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-5

Sample Size: 0.167 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s):

PB9C_312 S: 9
PB9C_359 S: 7

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			9060	68.0	0.0001	9.06e-01	9.06e-01	9.06e-01
3,4,4',5-TeCB	81			426	62.5	0.0003	1.28e-01	1.28e-01	1.28e-01
2,3,3',4,4'-PeCB	105			223000	1210	0.00003	6.69e+00	6.69e+00	6.69e+00
2,3,4,4',5-PeCB	114			9320	611	0.00003	2.80e-01	2.80e-01	2.80e-01
2,3',4,4',5-PeCB	118			602000	1080	0.00003	1.81e+01	1.81e+01	1.81e+01
2',3,4,4',5-PeCB	123			10500	610	0.00003	3.15e-01	3.15e-01	3.15e-01
3,3',4,4',5-PeCB	126			2990	637	0.1	2.99e+02	2.99e+02	2.99e+02
2,3,3',4,4',5-HxCB	156	156 + 157	C	112000	184	0.00003	3.36e+00	3.36e+00	3.36e+00
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			57000	127	0.00003	1.71e+00	1.71e+00	1.71e+00
3,3',4,4',5,5'-HxCB	169		U		481	0.03	0.00e+00	7.22e+00	1.44e+01
2,3,3',4,4',5,5'-HpCB	189			7290	23.4	0.00003	2.19e-01	2.19e-01	2.19e-01
TOTAL TEQ							331	338	345

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-5_TEQ_SJ1077148_Lipid.html; Workgroup: WG30036; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 29-Oct-2009 **Time:** 22:17:51

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-6 (A)

Sample Size: 11.0 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: **PB9C_330 S: 3**

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 80.3
% Lipid: 1.26

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		1.79
Total Dichloro Biphenyls		31.6
Total Trichloro Biphenyls		734
Total Tetrachloro Biphenyls		5450
Total Pentachloro Biphenyls		15100
Total Hexachloro Biphenyls		24800
Total Heptachloro Biphenyls		9300
Total Octachloro Biphenyls		2680
Total Nonachloro Biphenyls		515
Decachloro Biphenyl		187
TOTAL PCBs		58900

(1) Where applicable, custom lab flags have been used on this report.
 (2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ **Brian Watson** _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-6_Form1AHT_SJ1077645.html; Workgroup: WG30036; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 29-Oct-2009 **Time:** 22:17:51

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-6 (A)

Sample Size: 2.17 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: **PB9C_330 S: 3**

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 80.3
% Lipid: 1.26

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		9.07
Total Dichloro Biphenyls		160
Total Trichloro Biphenyls		3720
Total Tetrachloro Biphenyls		27600
Total Pentachloro Biphenyls		76700
Total Hexachloro Biphenyls		126000
Total Heptachloro Biphenyls		47200
Total Octachloro Biphenyls		13600
Total Nonachloro Biphenyls		2610
Decachloro Biphenyl		948
TOTAL PCBs		298000

(1) Where applicable, custom lab flags have been used on this report.
 (2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ **Brian Watson** _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-6_Form1AHT_SJ1077645_Dry.html; Workgroup: WG30036; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No.

SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.:

L13452-6 (A)

Matrix: TISSUE

Sample Size:

0.138 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date:

01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID:

HR GC/MS

Analysis Date: 29-Oct-2009 **Time:** 22:17:51

GC Column ID:

SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename:

PB9C_330 S: 3

Injection Volume (uL): 1.0

Blank Data Filename:

PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename:

PB9C_330 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture:
% Lipid:

80.3
 1.26

PCB HOMOLOGUE GROUP

**LAB
 FLAG ¹**

**CONC.
 FOUND**

Total Monochloro Biphenyls

142

Total Dichloro Biphenyls

2520

Total Trichloro Biphenyls

58400

Total Tetrachloro Biphenyls

434000

Total Pentachloro Biphenyls

1200000

Total Hexachloro Biphenyls

1980000

Total Heptachloro Biphenyls

741000

Total Octachloro Biphenyls

214000

Total Nonachloro Biphenyls

40900

Decachloro Biphenyl

14900

TOTAL PCBs

4680000

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ **Brian Watson** _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xml; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13;
 Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-6_Form1AHT_SJ1077645_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 11.0 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-6 (A)
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 3

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			69.2	1.06	0.0001	6.92e-03	6.92e-03	6.92e-03
3,4,4',5-TeCB	81			2.21	1.11	0.0003	6.63e-04	6.63e-04	6.63e-04
2,3,3',4,4'-PeCB	105			1020	4.30	0.00003	3.06e-02	3.06e-02	3.06e-02
2,3,4,4',5-PeCB	114			49.1	4.69	0.00003	1.47e-03	1.47e-03	1.47e-03
2,3',4,4',5-PeCB	118			2470	3.66	0.00003	7.41e-02	7.41e-02	7.41e-02
2',3,4,4',5-PeCB	123			47.3	4.79	0.00003	1.42e-03	1.42e-03	1.42e-03
3,3',4,4',5-PeCB	126			12.1	5.92	0.1	1.21e+00	1.21e+00	1.21e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	491	5.20	0.00003	1.47e-02	1.47e-02	1.47e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			240	3.76	0.00003	7.20e-03	7.20e-03	7.20e-03
3,3',4,4',5,5'-HxCB	169		U		6.46	0.03	0.00e+00	9.69e-02	1.94e-01
2,3,3',4,4',5,5'-HpCB	189			35.3	0.277	0.00003	1.06e-03	1.06e-03	1.06e-03
TOTAL TEQ							1.35	1.45	1.54

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-6_TEQ_SJ1077645.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.17 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-6 (A)
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 3

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			351	5.37	0.0001	3.51e-02	3.51e-02	3.51e-02
3,4,4',5-TeCB	81			11.2	5.63	0.0003	3.36e-03	3.36e-03	3.36e-03
2,3,3',4,4'-PeCB	105			5170	21.8	0.00003	1.55e-01	1.55e-01	1.55e-01
2,3,4,4',5-PeCB	114			249	23.8	0.00003	7.47e-03	7.47e-03	7.47e-03
2,3',4,4',5-PeCB	118			12500	18.6	0.00003	3.75e-01	3.75e-01	3.75e-01
2',3,4,4',5-PeCB	123			240	24.3	0.00003	7.20e-03	7.20e-03	7.20e-03
3,3',4,4',5-PeCB	126			61.3	30.0	0.1	6.13e+00	6.13e+00	6.13e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	2490	26.4	0.00003	7.47e-02	7.47e-02	7.47e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			1220	19.1	0.00003	3.66e-02	3.66e-02	3.66e-02
3,3',4,4',5,5'-HxCB	169		U		32.7	0.03	0.00e+00	4.91e-01	9.81e-01
2,3,3',4,4',5,5'-HpCB	189			179	1.40	0.00003	5.37e-03	5.37e-03	5.37e-03
TOTAL TEQ							6.83	7.32	7.81

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-6_TEQ_SJ1077645_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-6 (A)

Sample Size: 0.138 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_330 S: 3

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			5510	84.3	0.0001	5.51e-01	5.51e-01	5.51e-01
3,4,4',5-TeCB	81			176	88.4	0.0003	5.28e-02	5.28e-02	5.28e-02
2,3,3',4,4'-PeCB	105			81200	342	0.00003	2.44e+00	2.44e+00	2.44e+00
2,3,4,4',5-PeCB	114			3910	374	0.00003	1.17e-01	1.17e-01	1.17e-01
2,3',4,4',5-PeCB	118			196000	292	0.00003	5.88e+00	5.88e+00	5.88e+00
2',3,4,4',5-PeCB	123			3770	382	0.00003	1.13e-01	1.13e-01	1.13e-01
3,3',4,4',5-PeCB	126			963	471	0.1	9.63e+01	9.63e+01	9.63e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	39100	415	0.00003	1.17e+00	1.17e+00	1.17e+00
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			19200	300	0.00003	5.76e-01	5.76e-01	5.76e-01
3,3',4,4',5,5'-HxCB	169		U		513	0.03	0.00e+00	7.70e+00	1.54e+01
2,3,3',4,4',5,5'-HpCB	189			2810	22.0	0.00003	8.43e-02	8.43e-02	8.43e-02
TOTAL TEQ							107	115	123

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-6_TEQ_SJ1077645_Lipid.html; Workgroup: WG30036; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
 North River- 3 Males
Sample Collection:
 N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-8
Sample Size: 10.5 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 5, PB9C_359 S: 9
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 76.7
% Lipid: 2.64

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 30-Oct-2009 **Time:** 00:26:37
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (wet weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		9.00
Total Dichloro Biphenyls		133
Total Trichloro Biphenyls		2420
Total Tetrachloro Biphenyls		25800
Total Pentachloro Biphenyls		98900
Total Hexachloro Biphenyls		142000
Total Heptachloro Biphenyls		46600
Total Octachloro Biphenyls		8770
Total Nonachloro Biphenyls		1330
Decachloro Biphenyl		313
TOTAL PCBs		326000

(1) Where applicable, custom lab flags have been used on this report.
 (2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
 North River- 3 Males
Sample Collection:
 N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-8
Sample Size: 2.44 g (dry)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 5, PB9C_359 S: 9
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 76.7
% Lipid: 2.64

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 30-Oct-2009 **Time:** 00:26:37
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (dry weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		38.7
Total Dichloro Biphenyls		570
Total Trichloro Biphenyls		10400
Total Tetrachloro Biphenyls		111000
Total Pentachloro Biphenyls		425000
Total Hexachloro Biphenyls		610000
Total Heptachloro Biphenyls		201000
Total Octachloro Biphenyls		37600
Total Nonachloro Biphenyls		5710
Decachloro Biphenyl		1350
TOTAL PCBs		1400000

(1) Where applicable, custom lab flags have been used on this report.
 (2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 3 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No.

SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.:

L13452-8

Matrix: TISSUE

Sample Size:

0.276 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date:

01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID:

HR GC/MS

Analysis Date: 30-Oct-2009 Time: 00:26:37

GC Column ID:

SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s):

PB9C_330 S: 5, PB9C_359 S: 9

Injection Volume (uL): 1.0

Blank Data Filename:

PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename:

PB9C_330 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture:

76.7

% Lipid:

2.64

PCB HOMOLOGUE GROUP

LAB
FLAG ¹

CONC.
FOUND

Total Monochloro Biphenyls

341

Total Dichloro Biphenyls

5030

Total Trichloro Biphenyls

91700

Total Tetrachloro Biphenyls

979000

Total Pentachloro Biphenyls

3750000

Total Hexachloro Biphenyls

5380000

Total Heptachloro Biphenyls

1770000

Total Octachloro Biphenyls

332000

Total Nonachloro Biphenyls

50400

Decachloro Biphenyl

11900

TOTAL PCBs

1.24E+07

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xml; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-8_Form1AHT_SJ1077649_Lipid.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 3 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Size: 10.5 g (wet)

Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-8
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 5
PB9C_359 S: 9

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			250	3.87	0.0001	2.50e-02	2.50e-02	2.50e-02
3,4,4',5-TeCB	81			10.1	3.85	0.0003	3.03e-03	3.03e-03	3.03e-03
2,3,3',4,4'-PeCB	105			6660	53.7	0.00003	2.00e-01	2.00e-01	2.00e-01
2,3,4,4',5-PeCB	114			295	22.3	0.00003	8.85e-03	8.85e-03	8.85e-03
2,3',4,4',5-PeCB	118			20300	44.4	0.00003	6.09e-01	6.09e-01	6.09e-01
2',3,4,4',5-PeCB	123			215	21.6	0.00003	6.45e-03	6.45e-03	6.45e-03
3,3',4,4',5-PeCB	126			67.4	25.7	0.1	6.74e+00	6.74e+00	6.74e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	2670	18.9	0.00003	8.01e-02	8.01e-02	8.01e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			1340	15.3	0.00003	4.02e-02	4.02e-02	4.02e-02
3,3',4,4',5,5'-HxCB	169		U		22.2	0.03	0.00e+00	3.33e-01	6.66e-01
2,3,3',4,4',5,5'-HpCB	189			141	0.433	0.00003	4.23e-03	4.23e-03	4.23e-03
TOTAL TEQ							7.72	8.05	8.38

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-8_TEQ_SJ1077649.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Size: 2.44 g (dry)

Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-8
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 5
PB9C_359 S: 9

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			1070	16.6	0.0001	1.07e-01	1.07e-01	1.07e-01
3,4,4',5-TeCB	81			43.4	16.5	0.0003	1.30e-02	1.30e-02	1.30e-02
2,3,3',4,4'-PeCB	105			28600	231	0.00003	8.58e-01	8.58e-01	8.58e-01
2,3,4,4',5-PeCB	114			1270	95.9	0.00003	3.81e-02	3.81e-02	3.81e-02
2,3',4,4',5-PeCB	118			87300	191	0.00003	2.62e+00	2.62e+00	2.62e+00
2',3,4,4',5-PeCB	123			924	92.8	0.00003	2.77e-02	2.77e-02	2.77e-02
3,3',4,4',5-PeCB	126			290	110	0.1	2.90e+01	2.90e+01	2.90e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	11500	81.2	0.00003	3.45e-01	3.45e-01	3.45e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			5760	65.8	0.00003	1.73e-01	1.73e-01	1.73e-01
3,3',4,4',5,5'-HxCB	169		U		95.4	0.03	0.00e+00	1.43e+00	2.86e+00
2,3,3',4,4',5,5'-HpCB	189			606	1.86	0.00003	1.82e-02	1.82e-02	1.82e-02
TOTAL TEQ							33.2	34.6	36.1

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-8_TEQ_SJ1077649_Dry.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 3 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 0.276 g (lipid)
Concentration Units: pg/g (lipid weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-8
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 5
PB9C_359 S: 9

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			9440	146	0.0001	9.44e-01	9.44e-01	9.44e-01
3,4,4',5-TeCB	81			383	146	0.0003	1.15e-01	1.15e-01	1.15e-01
2,3,3',4,4'-PeCB	105			252000	2040	0.00003	7.56e+00	7.56e+00	7.56e+00
2,3,4,4',5-PeCB	114			11200	846	0.00003	3.36e-01	3.36e-01	3.36e-01
2,3',4,4',5-PeCB	118			770000	1690	0.00003	2.31e+01	2.31e+01	2.31e+01
2',3,4,4',5-PeCB	123			8150	819	0.00003	2.45e-01	2.45e-01	2.45e-01
3,3',4,4',5-PeCB	126			2560	971	0.1	2.56e+02	2.56e+02	2.56e+02
2,3,3',4,4',5-HxCB	156	156 + 157	C	101000	716	0.00003	3.03e+00	3.03e+00	3.03e+00
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			50800	581	0.00003	1.52e+00	1.52e+00	1.52e+00
3,3',4,4',5,5'-HxCB	169		U		842	0.03	0.00e+00	1.26e+01	2.53e+01
2,3,3',4,4',5,5'-HpCB	189			5350	16.4	0.00003	1.61e-01	1.61e-01	1.61e-01
TOTAL TEQ							293	306	318

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-8_TEQ_SJ1077649_Lipid.html; Workgroup: WG30036; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 2 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No.

SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.:

L13452-9 L

Matrix: TISSUE

Sample Size:

10.4 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date:

01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID:

HR GC/MS

Analysis Date: 25-Nov-2009 Time: 18:02:24

GC Column ID:

SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename:

PB9C_358 S: 10

Injection Volume (uL): 1.0

Blank Data Filename:

PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename:

PB9C_358 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture:

78.4

% Lipid:

1.45

PCB HOMOLOGUE GROUP

LAB
FLAG ¹

CONC.
FOUND

Total Monochloro Biphenyls

3.83

Total Dichloro Biphenyls

96.2

Total Trichloro Biphenyls

792

Total Tetrachloro Biphenyls

4780

Total Pentachloro Biphenyls

18300

Total Hexachloro Biphenyls

29100

Total Heptachloro Biphenyls

13200

Total Octachloro Biphenyls

2600

Total Nonachloro Biphenyls

381

Decachloro Biphenyl

134

TOTAL PCBs

69300

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-9_Form1AHT_SJ1084303.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 2 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 25-Nov-2009 Time: 18:02:24

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-9 L
Sample Size: 2.20 g (dry)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 10
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 78.4
% Lipid: 1.45

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		18.1
Total Dichloro Biphenyls		456
Total Trichloro Biphenyls		3750
Total Tetrachloro Biphenyls		22600
Total Pentachloro Biphenyls		86500
Total Hexachloro Biphenyls		138000
Total Heptachloro Biphenyls		62500
Total Octachloro Biphenyls		12300
Total Nonachloro Biphenyls		1800
Decachloro Biphenyl		635
TOTAL PCBs		328000

(1) Where applicable, custom lab flags have been used on this report.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
 North River- 2 Females
Sample Collection:
 N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-9 L

Matrix: TISSUE

Sample Size: 0.148 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 25-Nov-2009 **Time:** 18:02:24

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: **PB9C_358 S: 10**

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_358 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 78.4
% Lipid: 1.45

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		270
Total Dichloro Biphenyls		6800
Total Trichloro Biphenyls		55900
Total Tetrachloro Biphenyls		337000
Total Pentachloro Biphenyls		1290000
Total Hexachloro Biphenyls		2050000
Total Heptachloro Biphenyls		932000
Total Octachloro Biphenyls		184000
Total Nonachloro Biphenyls		26800
Decachloro Biphenyl		9460
TOTAL PCBs		4900000

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 2 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.4 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-9 L
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_358 S: 10

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			82.8	2.40	0.0001	8.28e-03	8.28e-03	8.28e-03
3,4,4',5-TeCB	81		U		2.64	0.0003	0.00e+00	3.96e-04	7.92e-04
2,3,3',4,4'-PeCB	105			1570	1.07	0.00003	4.71e-02	4.71e-02	4.71e-02
2,3,4,4',5-PeCB	114			68.0	1.25	0.00003	2.04e-03	2.04e-03	2.04e-03
2,3',4,4',5-PeCB	118			4110	1.11	0.00003	1.23e-01	1.23e-01	1.23e-01
2',3,4,4',5-PeCB	123			67.6	1.24	0.00003	2.03e-03	2.03e-03	2.03e-03
3,3',4,4',5-PeCB	126			15.8	1.47	0.1	1.58e+00	1.58e+00	1.58e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	659	1.67	0.00003	1.98e-02	1.98e-02	1.98e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			315	1.14	0.00003	9.45e-03	9.45e-03	9.45e-03
3,3',4,4',5,5'-HxCB	169		U		6.67	0.03	0.00e+00	1.00e-01	2.00e-01
2,3,3',4,4',5,5'-HpCB	189			38.7	0.522	0.00003	1.16e-03	1.16e-03	1.16e-03
TOTAL TEQ							1.79	1.89	1.99

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-9_TEQ_SJ1084303.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 2 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.20 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-9 L
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_358 S: 10

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			392	11.4	0.0001	3.92e-02	3.92e-02	3.92e-02
3,4,4',5-TeCB	81		U		12.5	0.0003	0.00e+00	1.88e-03	3.75e-03
2,3,3',4,4'-PeCB	105			7440	5.07	0.00003	2.23e-01	2.23e-01	2.23e-01
2,3,4,4',5-PeCB	114			322	5.92	0.00003	9.66e-03	9.66e-03	9.66e-03
2,3',4,4',5-PeCB	118			19500	5.26	0.00003	5.85e-01	5.85e-01	5.85e-01
2',3,4,4',5-PeCB	123			320	5.87	0.00003	9.60e-03	9.60e-03	9.60e-03
3,3',4,4',5-PeCB	126			74.8	6.96	0.1	7.48e+00	7.48e+00	7.48e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	3120	7.91	0.00003	9.36e-02	9.36e-02	9.36e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			1490	5.40	0.00003	4.47e-02	4.47e-02	4.47e-02
3,3',4,4',5,5'-HxCB	169		U		31.6	0.03	0.00e+00	4.74e-01	9.48e-01
2,3,3',4,4',5,5'-HpCB	189			183	2.47	0.00003	5.49e-03	5.49e-03	5.49e-03
TOTAL TEQ							8.49	8.97	9.44

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-9_TEQ_SJ1084303_Dry.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 2 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-9 L

Sample Size: 0.148 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_358 S: 10

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			5840	170	0.0001	5.84e-01	5.84e-01	5.84e-01
3,4,4',5-TeCB	81		U		186	0.0003	0.00e+00	2.79e-02	5.58e-02
2,3,3',4,4'-PeCB	105			111000	75.6	0.00003	3.33e+00	3.33e+00	3.33e+00
2,3,4,4',5-PeCB	114			4800	88.2	0.00003	1.44e-01	1.44e-01	1.44e-01
2,3',4,4',5-PeCB	118			291000	78.4	0.00003	8.73e+00	8.73e+00	8.73e+00
2',3,4,4',5-PeCB	123			4770	87.5	0.00003	1.43e-01	1.43e-01	1.43e-01
3,3',4,4',5-PeCB	126			1110	104	0.1	1.11e+02	1.11e+02	1.11e+02
2,3,3',4,4',5-HxCB	156	156 + 157	C	46500	118	0.00003	1.40e+00	1.40e+00	1.40e+00
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			22200	80.5	0.00003	6.66e-01	6.66e-01	6.66e-01
3,3',4,4',5,5'-HxCB	169		U		471	0.03	0.00e+00	7.07e+00	1.41e+01
2,3,3',4,4',5,5'-HpCB	189			2730	36.8	0.00003	8.19e-02	8.19e-02	8.19e-02
TOTAL TEQ							126	133	140

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-9_TEQ_SJ1084303_Lipid.html; Workgroup: WG30036; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River -10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-10
Sample Size: 10.4 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename(s): **PB9C_330 S: 7, PB9C_359 S: 6**
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 78.4
% Lipid: 1.86

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 30-Oct-2009 **Time:** 02:35:24
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (wet weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		28.3
Total Dichloro Biphenyls		218
Total Trichloro Biphenyls		1340
Total Tetrachloro Biphenyls		8790
Total Pentachloro Biphenyls		29900
Total Hexachloro Biphenyls		44300
Total Heptachloro Biphenyls		16600
Total Octachloro Biphenyls		3500
Total Nonachloro Biphenyls		623
Decachloro Biphenyl		191
TOTAL PCBs		105000

(1) Where applicable, custom lab flags have been used on this report.
 (2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ **Brian Watson** _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River -10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-10

Matrix: TISSUE

Sample Size: 2.25 g (dry)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 Time: 02:35:24

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s): PB9C_330 S: 7, PB9C_359 S: 6

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_330 S: 1

Concentration Units: pg/g (dry weight basis)

% Moisture: 78.4
% Lipid: 1.86

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		131
Total Dichloro Biphenyls		1010
Total Trichloro Biphenyls		6230
Total Tetrachloro Biphenyls		40700
Total Pentachloro Biphenyls		139000
Total Hexachloro Biphenyls		205000
Total Heptachloro Biphenyls		76700
Total Octachloro Biphenyls		16200
Total Nonachloro Biphenyls		2890
Decachloro Biphenyl		885
TOTAL PCBs		488000

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River -10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No.

SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.:

L13452-10

Matrix: TISSUE

Sample Size:

0.195 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date:

01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID:

HR GC/MS

Analysis Date: 30-Oct-2009 **Time:** 02:35:24

GC Column ID:

SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s):

PB9C_330 S: 7, PB9C_359 S: 6

Injection Volume (uL): 1.0

Blank Data Filename:

PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename:

PB9C_330 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture:
% Lipid:

78.4
 1.86

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		1520
Total Dichloro Biphenyls		11700
Total Trichloro Biphenyls		72100
Total Tetrachloro Biphenyls		471000
Total Pentachloro Biphenyls		1600000
Total Hexachloro Biphenyls		2370000
Total Heptachloro Biphenyls		888000
Total Octachloro Biphenyls		188000
Total Nonachloro Biphenyls		33500
Decachloro Biphenyl		10200
TOTAL PCBs		5650000

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ **Brian Watson** _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River -10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.4 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-10
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 7
PB9C_359 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			95.9	0.435	0.0001	9.59e-03	9.59e-03	9.59e-03
3,4,4',5-TeCB	81			3.82	0.454	0.0003	1.15e-03	1.15e-03	1.15e-03
2,3,3',4,4'-PeCB	105			2130	6.06	0.00003	6.39e-02	6.39e-02	6.39e-02
2,3,4,4',5-PeCB	114			89.9	6.82	0.00003	2.70e-03	2.70e-03	2.70e-03
2,3',4,4',5-PeCB	118			6000	17.9	0.00003	1.80e-01	1.80e-01	1.80e-01
2',3,4,4',5-PeCB	123			83.1	7.02	0.00003	2.49e-03	2.49e-03	2.49e-03
3,3',4,4',5-PeCB	126			18.5	7.91	0.1	1.85e+00	1.85e+00	1.85e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	965	3.25	0.00003	2.90e-02	2.90e-02	2.90e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			474	2.27	0.00003	1.42e-02	1.42e-02	1.42e-02
3,3',4,4',5,5'-HxCB	169		U		9.46	0.03	0.00e+00	1.42e-01	2.84e-01
2,3,3',4,4',5,5'-HpCB	189			59.6	0.260	0.00003	1.79e-03	1.79e-03	1.79e-03
TOTAL TEQ							2.15	2.30	2.44

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-10_TEQ_SJ1077653.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River -10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Size: 2.25 g (dry)

Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-10
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 7
PB9C_359 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			444	2.01	0.0001	4.44e-02	4.44e-02	4.44e-02
3,4,4',5-TeCB	81			17.7	2.10	0.0003	5.31e-03	5.31e-03	5.31e-03
2,3,3',4,4'-PeCB	105			9870	28.1	0.00003	2.96e-01	2.96e-01	2.96e-01
2,3,4,4',5-PeCB	114			416	31.6	0.00003	1.25e-02	1.25e-02	1.25e-02
2,3',4,4',5-PeCB	118			27800	82.9	0.00003	8.34e-01	8.34e-01	8.34e-01
2',3,4,4',5-PeCB	123			385	32.5	0.00003	1.16e-02	1.16e-02	1.16e-02
3,3',4,4',5-PeCB	126			85.7	36.6	0.1	8.57e+00	8.57e+00	8.57e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	4470	15.1	0.00003	1.34e-01	1.34e-01	1.34e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			2200	10.5	0.00003	6.60e-02	6.60e-02	6.60e-02
3,3',4,4',5,5'-HxCB	169		U		43.8	0.03	0.00e+00	6.57e-01	1.31e+00
2,3,3',4,4',5,5'-HpCB	189			276	1.20	0.00003	8.28e-03	8.28e-03	8.28e-03
TOTAL TEQ							9.98	10.6	11.3

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-10_TEQ_SJ1077653_Dry.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River -10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 0.195 g (lipid)
Concentration Units: pg/g (lipid weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-10
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 7
PB9C_359 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			5140	23.3	0.0001	5.14e-01	5.14e-01	5.14e-01	
3,4,4',5-TeCB	81			205	24.3	0.0003	6.15e-02	6.15e-02	6.15e-02	
2,3,3',4,4'-PeCB	105			114000	325	0.00003	3.42e+00	3.42e+00	3.42e+00	
2,3,4,4',5-PeCB	114			4820	366	0.00003	1.45e-01	1.45e-01	1.45e-01	
2,3',4,4',5-PeCB	118			322000	960	0.00003	9.66e+00	9.66e+00	9.66e+00	
2',3,4,4',5-PeCB	123			4460	376	0.00003	1.34e-01	1.34e-01	1.34e-01	
3,3',4,4',5-PeCB	126			992	424	0.1	9.92e+01	9.92e+01	9.92e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	51700	175	0.00003	1.55e+00	1.55e+00	1.55e+00	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			25500	122	0.00003	7.65e-01	7.65e-01	7.65e-01	
3,3',4,4',5,5'-HxCB	169		U		507	0.03	0.00e+00	7.61e+00	1.52e+01	
2,3,3',4,4',5,5'-HpCB	189			3200	13.9	0.00003	9.60e-02	9.60e-02	9.60e-02	
TOTAL TEQ								116	123	131

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-10_TEQ_SJ1077653_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-12

Matrix: TISSUE

Sample Size: 10.1 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 **Time:** 03:39:45

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s): **PB9C_330 S: 8, PB9C_358 S: 5**

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_330 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture: 79.6
% Lipid: 1.27

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		1.06
Total Dichloro Biphenyls		18.8
Total Trichloro Biphenyls		691
Total Tetrachloro Biphenyls		6760
Total Pentachloro Biphenyls		23900
Total Hexachloro Biphenyls		31800
Total Heptachloro Biphenyls		10600
Total Octachloro Biphenyls		2020
Total Nonachloro Biphenyls		479
Decachloro Biphenyl		168
TOTAL PCBs		76400

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ **Brian Watson** _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 Time: 03:39:45

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-12
Sample Size: 2.05 g (dry)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 8, PB9C_358 S: 5
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 79.6
% Lipid: 1.27

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		5.18
Total Dichloro Biphenyls		92.0
Total Trichloro Biphenyls		3390
Total Tetrachloro Biphenyls		33100
Total Pentachloro Biphenyls		117000
Total Hexachloro Biphenyls		156000
Total Heptachloro Biphenyls		52000
Total Octachloro Biphenyls		9910
Total Nonachloro Biphenyls		2340
Decachloro Biphenyl		823
TOTAL PCBs		375000

(1) Where applicable, custom lab flags have been used on this report.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-12_Form1AHT_SJ1077655_Dry.html; Workgroup: WG30036; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-12

Matrix: TISSUE

Sample Size: 0.128 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 Time: 03:39:45

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s): PB9C_330 S: 8, PB9C_358 S: 5

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_330 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 79.6
% Lipid: 1.27

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		83.0
Total Dichloro Biphenyls		1470
Total Trichloro Biphenyls		54400
Total Tetrachloro Biphenyls		530000
Total Pentachloro Biphenyls		1880000
Total Hexachloro Biphenyls		2490000
Total Heptachloro Biphenyls		832000
Total Octachloro Biphenyls		159000
Total Nonachloro Biphenyls		37600
Decachloro Biphenyl		13200
TOTAL PCBs		6000000

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. - 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Size: 10.1 g (wet)

Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-12
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 8
PB9C_358 S: 5

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			76.0	0.910	0.0001	7.60e-03	7.60e-03	7.60e-03
3,4,4',5-TeCB	81			2.50	0.979	0.0003	7.50e-04	7.50e-04	7.50e-04
2,3,3',4,4'-PeCB	105			1370	3.21	0.00003	4.11e-02	4.11e-02	4.11e-02
2,3,4,4',5-PeCB	114			71.5	3.73	0.00003	2.15e-03	2.15e-03	2.15e-03
2,3',4,4',5-PeCB	118			4340	3.01	0.00003	1.30e-01	1.30e-01	1.30e-01
2',3,4,4',5-PeCB	123			58.6	3.72	0.00003	1.76e-03	1.76e-03	1.76e-03
3,3',4,4',5-PeCB	126			14.2	4.51	0.1	1.42e+00	1.42e+00	1.42e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	591	4.44	0.00003	1.77e-02	1.77e-02	1.77e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			284	2.71	0.00003	8.52e-03	8.52e-03	8.52e-03
3,3',4,4',5,5'-HxCB	169		U		4.94	0.03	0.00e+00	7.41e-02	1.48e-01
2,3,3',4,4',5,5'-HpCB	189			31.1	0.331	0.00003	9.33e-04	9.33e-04	9.33e-04
TOTAL TEQ							1.63	1.70	1.78

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-12_TEQ_SJ1077655.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. - 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.05 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-12
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 8
PB9C_358 S: 5

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			372	4.46	0.0001	3.72e-02	3.72e-02	3.72e-02
3,4,4',5-TeCB	81			12.2	4.79	0.0003	3.66e-03	3.66e-03	3.66e-03
2,3,3',4,4'-PeCB	105			6710	15.7	0.00003	2.01e-01	2.01e-01	2.01e-01
2,3,4,4',5-PeCB	114			350	18.3	0.00003	1.05e-02	1.05e-02	1.05e-02
2,3',4,4',5-PeCB	118			21300	14.7	0.00003	6.39e-01	6.39e-01	6.39e-01
2',3,4,4',5-PeCB	123			287	18.2	0.00003	8.61e-03	8.61e-03	8.61e-03
3,3',4,4',5-PeCB	126			69.5	22.1	0.1	6.95e+00	6.95e+00	6.95e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	2890	21.7	0.00003	8.67e-02	8.67e-02	8.67e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			1390	13.3	0.00003	4.17e-02	4.17e-02	4.17e-02
3,3',4,4',5,5'-HxCB	169		U		24.2	0.03	0.00e+00	3.63e-01	7.26e-01
2,3,3',4,4',5,5'-HpCB	189			152	1.62	0.00003	4.56e-03	4.56e-03	4.56e-03
TOTAL TEQ							7.98	8.35	8.71

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-12_TEQ_SJ1077655_Dry.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. - 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-12

Sample Size: 0.128 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s):

PB9C_330 S: 8
PB9C_358 S: 5

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			5960	71.5	0.0001	5.96e-01	5.96e-01	5.96e-01
3,4,4',5-TeCB	81			195	76.7	0.0003	5.85e-02	5.85e-02	5.85e-02
2,3,3',4,4'-PeCB	105			108000	252	0.00003	3.24e+00	3.24e+00	3.24e+00
2,3,4,4',5-PeCB	114			5610	293	0.00003	1.68e-01	1.68e-01	1.68e-01
2,3',4,4',5-PeCB	118			341000	236	0.00003	1.02e+01	1.02e+01	1.02e+01
2',3,4,4',5-PeCB	123			4600	292	0.00003	1.38e-01	1.38e-01	1.38e-01
3,3',4,4',5-PeCB	126			1110	354	0.1	1.11e+02	1.11e+02	1.11e+02
2,3,3',4,4',5-HxCB	156	156 + 157	C	46300	348	0.00003	1.39e+00	1.39e+00	1.39e+00
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			22300	213	0.00003	6.69e-01	6.69e-01	6.69e-01
3,3',4,4',5,5'-HxCB	169		U		388	0.03	0.00e+00	5.82e+00	1.16e+01
2,3,3',4,4',5,5'-HpCB	189			2440	26.0	0.00003	7.32e-02	7.32e-02	7.32e-02
TOTAL TEQ									
							128	133	139

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-12_TEQ_SJ1077655_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-14

Matrix: TISSUE

Sample Size: 10.6 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 **Time:** 04:44:06

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s): **PB9C_330 S: 9, PB9C_359 S: 10**

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_330 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture: 77.9
% Lipid: 2.15

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		1.38
Total Dichloro Biphenyls		120
Total Trichloro Biphenyls		3420
Total Tetrachloro Biphenyls		29300
Total Pentachloro Biphenyls		92200
Total Hexachloro Biphenyls		117000
Total Heptachloro Biphenyls		37800
Total Octachloro Biphenyls		6790
Total Nonachloro Biphenyls		931
Decachloro Biphenyl		236
TOTAL PCBs		288000

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ **Brian Watson** _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-14
Sample Size: 2.33 g (dry)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename(s): **PB9C_330 S: 9, PB9C_359 S: 10**
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 77.9
% Lipid: 2.15

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 30-Oct-2009 **Time:** 04:44:06
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (dry weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		6.23
Total Dichloro Biphenyls		543
Total Trichloro Biphenyls		15500
Total Tetrachloro Biphenyls		132000
Total Pentachloro Biphenyls		417000
Total Hexachloro Biphenyls		528000
Total Heptachloro Biphenyls		171000
Total Octachloro Biphenyls		30700
Total Nonachloro Biphenyls		4210
Decachloro Biphenyl		1070
TOTAL PCBs		1300000

(1) Where applicable, custom lab flags have been used on this report.
 (2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ **Brian Watson** _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No.

SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.:

L13452-14

Matrix: TISSUE

Sample Size:

0.227 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date:

01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID:

HR GC/MS

Analysis Date: 30-Oct-2009 **Time:** 04:44:06

GC Column ID:

SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s):

PB9C_330 S: 9, PB9C_359 S: 10

Injection Volume (uL): 1.0

Blank Data Filename:

PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename:

PB9C_330 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture:

77.9

% Lipid:

2.15

PCB HOMOLOGUE GROUP

**LAB
 FLAG ¹**

**CONC.
 FOUND**

Total Monochloro Biphenyls

64.1

Total Dichloro Biphenyls

5590

Total Trichloro Biphenyls

159000

Total Tetrachloro Biphenyls

1360000

Total Pentachloro Biphenyls

4290000

Total Hexachloro Biphenyls

5430000

Total Heptachloro Biphenyls

1760000

Total Octachloro Biphenyls

316000

Total Nonachloro Biphenyls

43400

Decachloro Biphenyl

11000

TOTAL PCBs

1.34E+07

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ **Brian Watson** _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xml; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-14_Form1AHT_SJ1077657_Lipid.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.6 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-14
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 9
PB9C_359 S: 10

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			172	1.47	0.0001	1.72e-02	1.72e-02	1.72e-02
3,4,4',5-TeCB	81			8.77	1.48	0.0003	2.63e-03	2.63e-03	2.63e-03
2,3,3',4,4'-PeCB	105			6380	46.9	0.00003	1.91e-01	1.91e-01	1.91e-01
2,3,4,4',5-PeCB	114			298	14.1	0.00003	8.94e-03	8.94e-03	8.94e-03
2,3',4,4',5-PeCB	118			20800	44.7	0.00003	6.24e-01	6.24e-01	6.24e-01
2',3,4,4',5-PeCB	123			246	13.9	0.00003	7.38e-03	7.38e-03	7.38e-03
3,3',4,4',5-PeCB	126			53.3	16.2	0.1	5.33e+00	5.33e+00	5.33e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	2540	7.97	0.00003	7.62e-02	7.62e-02	7.62e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			1210	6.35	0.00003	3.63e-02	3.63e-02	3.63e-02
3,3',4,4',5,5'-HxCB	169		U		12.8	0.03	0.00e+00	1.92e-01	3.84e-01
2,3,3',4,4',5,5'-HpCB	189			133	0.372	0.00003	3.99e-03	3.99e-03	3.99e-03
TOTAL TEQ							6.30	6.49	6.68

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-14_TEQ_SJ1077657.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.33 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-14
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 9
PB9C_359 S: 10

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			777	6.64	0.0001	7.77e-02	7.77e-02	7.77e-02
3,4,4',5-TeCB	81			39.6	6.69	0.0003	1.19e-02	1.19e-02	1.19e-02
2,3,3',4,4'-PeCB	105			28800	212	0.00003	8.64e-01	8.64e-01	8.64e-01
2,3,4,4',5-PeCB	114			1350	63.7	0.00003	4.05e-02	4.05e-02	4.05e-02
2,3',4,4',5-PeCB	118			94000	202	0.00003	2.82e+00	2.82e+00	2.82e+00
2',3,4,4',5-PeCB	123			1110	62.8	0.00003	3.33e-02	3.33e-02	3.33e-02
3,3',4,4',5-PeCB	126			241	73.2	0.1	2.41e+01	2.41e+01	2.41e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	11500	36.0	0.00003	3.45e-01	3.45e-01	3.45e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			5470	28.7	0.00003	1.64e-01	1.64e-01	1.64e-01
3,3',4,4',5,5'-HxCB	169		U		57.9	0.03	0.00e+00	8.69e-01	1.74e+00
2,3,3',4,4',5,5'-HpCB	189			601	1.68	0.00003	1.80e-02	1.80e-02	1.80e-02
TOTAL TEQ							28.5	29.3	30.2

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-14_TEQ_SJ1077657_Dry.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-14

Sample Size: 0.227 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s):

PB9C_330 S: 9
PB9C_359 S: 10

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			8000	68.4	0.0001	8.00e-01	8.00e-01	8.00e-01
3,4,4',5-TeCB	81			408	68.9	0.0003	1.22e-01	1.22e-01	1.22e-01
2,3,3',4,4'-PeCB	105			297000	2180	0.00003	8.91e+00	8.91e+00	8.91e+00
2,3,4,4',5-PeCB	114			13900	656	0.00003	4.17e-01	4.17e-01	4.17e-01
2,3',4,4',5-PeCB	118			968000	2080	0.00003	2.90e+01	2.90e+01	2.90e+01
2',3,4,4',5-PeCB	123			11400	647	0.00003	3.42e-01	3.42e-01	3.42e-01
3,3',4,4',5-PeCB	126			2480	754	0.1	2.48e+02	2.48e+02	2.48e+02
2,3,3',4,4',5-HxCB	156	156 + 157	C	118000	371	0.00003	3.54e+00	3.54e+00	3.54e+00
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			56300	295	0.00003	1.69e+00	1.69e+00	1.69e+00
3,3',4,4',5,5'-HxCB	169		U		596	0.03	0.00e+00	8.94e+00	1.79e+01
2,3,3',4,4',5,5'-HpCB	189			6190	17.3	0.00003	1.86e-01	1.86e-01	1.86e-01
TOTAL TEQ							293	302	311

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-14_TEQ_SJ1077657_Lipid.html; Workgroup: WG30036; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No.

SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.:

L13452-15

Matrix: TISSUE

Sample Size:

10.8 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date:

01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID:

HR GC/MS

Analysis Date: 30-Oct-2009 **Time:** 05:48:28

GC Column ID:

SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s):

PB9C_330 S: 10, PB9C_359 S: 8

Injection Volume (uL): 1.0

Blank Data Filename:

PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename:

PB9C_330 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture:

79.3

% Lipid:

1.52

PCB HOMOLOGUE GROUP

**LAB
 FLAG ¹**

**CONC.
 FOUND**

Total Monochloro Biphenyls

0.809

Total Dichloro Biphenyls

31.1

Total Trichloro Biphenyls

1820

Total Tetrachloro Biphenyls

20400

Total Pentachloro Biphenyls

63600

Total Hexachloro Biphenyls

96400

Total Heptachloro Biphenyls

36200

Total Octachloro Biphenyls

5240

Total Nonachloro Biphenyls

921

Decachloro Biphenyl

176

TOTAL PCBs

225000

(1) Where applicable, custom lab flags have been used on this report.

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Approved by: _____ **Brian Watson** _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-15_Form1AHT_SJ1077659.html; Workgroup: WG30036; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
 Jones River- 10 Females
Sample Collection:
 N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 **Time:** 05:48:28

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-15

Sample Size: 2.24 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename(s): **PB9C_330 S: 10, PB9C_359 S: 8**

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 79.3
% Lipid: 1.52

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		3.91
Total Dichloro Biphenyls		150
Total Trichloro Biphenyls		8810
Total Tetrachloro Biphenyls		98600
Total Pentachloro Biphenyls		307000
Total Hexachloro Biphenyls		466000
Total Heptachloro Biphenyls		175000
Total Octachloro Biphenyls		25300
Total Nonachloro Biphenyls		4450
Decachloro Biphenyl		851
TOTAL PCBs		1090000

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Approved by: _____ **Brian Watson** _____ QA/QC Chemist

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-15

Matrix: TISSUE

Sample Size: 0.165 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 Time: 05:48:28

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s): PB9C_330 S: 10, PB9C_359 S: 8

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_330 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 79.3
% Lipid: 1.52

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		53.2
Total Dichloro Biphenyls		2050
Total Trichloro Biphenyls		120000
Total Tetrachloro Biphenyls		1340000
Total Pentachloro Biphenyls		4180000
Total Hexachloro Biphenyls		6340000
Total Heptachloro Biphenyls		2390000
Total Octachloro Biphenyls		344000
Total Nonachloro Biphenyls		60700
Decachloro Biphenyl		11600
TOTAL PCBs		1.48E+07

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.8 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-15
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 10
PB9C_359 S: 8

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			163	1.72	0.0001	1.63e-02	1.63e-02	1.63e-02
3,4,4',5-TeCB	81			7.17	1.73	0.0003	2.15e-03	2.15e-03	2.15e-03
2,3,3',4,4'-PeCB	105			4600	53.3	0.00003	1.38e-01	1.38e-01	1.38e-01
2,3,4,4',5-PeCB	114			170	12.0	0.00003	5.10e-03	5.10e-03	5.10e-03
2,3',4,4',5-PeCB	118			13000	51.4	0.00003	3.90e-01	3.90e-01	3.90e-01
2',3,4,4',5-PeCB	123			198	11.5	0.00003	5.94e-03	5.94e-03	5.94e-03
3,3',4,4',5-PeCB	126			48.0	13.4	0.1	4.80e+00	4.80e+00	4.80e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	2120	4.80	0.00003	6.36e-02	6.36e-02	6.36e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			1050	4.25	0.00003	3.15e-02	3.15e-02	3.15e-02
3,3',4,4',5,5'-HxCB	169		U		11.6	0.03	0.00e+00	1.74e-01	3.48e-01
2,3,3',4,4',5,5'-HpCB	189			124	0.461	0.00003	3.72e-03	3.72e-03	3.72e-03
TOTAL TEQ							5.46	5.63	5.80

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.24 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-15
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 10
PB9C_359 S: 8

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			788	8.31	0.0001	7.88e-02	7.88e-02	7.88e-02	
3,4,4',5-TeCB	81			34.7	8.36	0.0003	1.04e-02	1.04e-02	1.04e-02	
2,3,3',4,4'-PeCB	105			22200	258	0.00003	6.66e-01	6.66e-01	6.66e-01	
2,3,4,4',5-PeCB	114			822	58.0	0.00003	2.47e-02	2.47e-02	2.47e-02	
2,3',4,4',5-PeCB	118			62800	248	0.00003	1.88e+00	1.88e+00	1.88e+00	
2',3,4,4',5-PeCB	123			957	55.6	0.00003	2.87e-02	2.87e-02	2.87e-02	
3,3',4,4',5-PeCB	126			232	64.8	0.1	2.32e+01	2.32e+01	2.32e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	10200	23.2	0.00003	3.06e-01	3.06e-01	3.06e-01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			5070	20.5	0.00003	1.52e-01	1.52e-01	1.52e-01	
3,3',4,4',5,5'-HxCB	169		U		56.1	0.03	0.00e+00	8.42e-01	1.68e+00	
2,3,3',4,4',5,5'-HpCB	189			599	2.23	0.00003	1.80e-02	1.80e-02	1.80e-02	
TOTAL TEQ								26.4	27.2	28.1

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-15_TEQ_SJ1077659_Dry.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-15

Sample Size: 0.165 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s):

PB9C_330 S: 10
PB9C_359 S: 8

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			10700	113	0.0001	1.07e+00	1.07e+00	1.07e+00
3,4,4',5-TeCB	81			472	114	0.0003	1.42e-01	1.42e-01	1.42e-01
2,3,3',4,4'-PeCB	105			302000	3510	0.00003	9.06e+00	9.06e+00	9.06e+00
2,3,4,4',5-PeCB	114			11200	790	0.00003	3.36e-01	3.36e-01	3.36e-01
2,3',4,4',5-PeCB	118			855000	3380	0.00003	2.57e+01	2.57e+01	2.57e+01
2',3,4,4',5-PeCB	123			13000	757	0.00003	3.90e-01	3.90e-01	3.90e-01
3,3',4,4',5-PeCB	126			3160	882	0.1	3.16e+02	3.16e+02	3.16e+02
2,3,3',4,4',5-HxCB	156	156 + 157	C	139000	316	0.00003	4.17e+00	4.17e+00	4.17e+00
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			69000	279	0.00003	2.07e+00	2.07e+00	2.07e+00
3,3',4,4',5,5'-HxCB	169		U		764	0.03	0.00e+00	1.15e+01	2.29e+01
2,3,3',4,4',5,5'-HpCB	189			8160	30.4	0.00003	2.45e-01	2.45e-01	2.45e-01
TOTAL TEQ							359	371	382

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-15_TEQ_SJ1077659_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook - 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-17

Matrix: TISSUE

Sample Size: 10.9 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 **Time:** 06:52:52

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: **PB9C_330 S: 11**

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_330 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture: 79.6
% Lipid: 1.50

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		0.519
Total Dichloro Biphenyls		11.8
Total Trichloro Biphenyls		141
Total Tetrachloro Biphenyls		822
Total Pentachloro Biphenyls		3180
Total Hexachloro Biphenyls		5890
Total Heptachloro Biphenyls		2630
Total Octachloro Biphenyls		502
Total Nonachloro Biphenyls		151
Decachloro Biphenyl		68.0
TOTAL PCBs		13400

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ **Brian Watson** _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook - 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 **Time:** 06:52:52

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-17

Sample Size: 2.22 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: **PB9C_330 S: 11**

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 79.6
% Lipid: 1.50

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		2.54
Total Dichloro Biphenyls		57.9
Total Trichloro Biphenyls		689
Total Tetrachloro Biphenyls		4030
Total Pentachloro Biphenyls		15600
Total Hexachloro Biphenyls		28800
Total Heptachloro Biphenyls		12900
Total Octachloro Biphenyls		2460
Total Nonachloro Biphenyls		740
Decachloro Biphenyl		333
TOTAL PCBs		65600

(1) Where applicable, custom lab flags have been used on this report.
 (2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ **Brian Watson** _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13;
 Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-17_Form1AHT_SJ1077661_Dry.html; Workgroup: WG30036; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook - 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-17
Sample Size: 0.163 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 11
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 79.6
% Lipid: 1.50

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 30-Oct-2009 Time: 06:52:52
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (lipid weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		34.6
Total Dichloro Biphenyls		789
Total Trichloro Biphenyls		9390
Total Tetrachloro Biphenyls		54900
Total Pentachloro Biphenyls		213000
Total Hexachloro Biphenyls		393000
Total Heptachloro Biphenyls		176000
Total Octachloro Biphenyls		33500
Total Nonachloro Biphenyls		10100
Decachloro Biphenyl		4540
TOTAL PCBs		895000

(1) Where applicable, custom lab flags have been used on this report.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-17_Form1AHT_SJ1077661_Lipid.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook - 10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.9 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-17
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 11

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			7.50	0.320	0.0001	7.50e-04	7.50e-04	7.50e-04
3,4,4',5-TeCB	81		U		0.419	0.0003	0.00e+00	6.29e-05	1.26e-04
2,3,3',4,4'-PeCB	105			191	0.797	0.00003	5.73e-03	5.73e-03	5.73e-03
2,3,4,4',5-PeCB	114			9.75	0.998	0.00003	2.93e-04	2.93e-04	2.93e-04
2,3',4,4',5-PeCB	118			527	0.908	0.00003	1.58e-02	1.58e-02	1.58e-02
2',3,4,4',5-PeCB	123			8.89	1.03	0.00003	2.67e-04	2.67e-04	2.67e-04
3,3',4,4',5-PeCB	126			1.41	1.21	0.1	1.41e-01	1.41e-01	1.41e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	90.9	0.632	0.00003	2.73e-03	2.73e-03	2.73e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			48.4	0.447	0.00003	1.45e-03	1.45e-03	1.45e-03
3,3',4,4',5,5'-HxCB	169		U		1.32	0.03	0.00e+00	1.98e-02	3.96e-02
2,3,3',4,4',5,5'-HpCB	189			8.12	0.196	0.00003	2.44e-04	2.44e-04	2.44e-04
TOTAL TEQ							0.168	0.188	0.208

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-17_TEQ_SJ1077661.html; Workgroup: WG30036; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook - 10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.22 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-17
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 11

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			36.7	1.57	0.0001	3.67e-03	3.67e-03	3.67e-03
3,4,4',5-TeCB	81		U		2.05	0.0003	0.00e+00	3.08e-04	6.15e-04
2,3,3',4,4'-PeCB	105			936	3.90	0.00003	2.81e-02	2.81e-02	2.81e-02
2,3,4,4',5-PeCB	114			47.8	4.89	0.00003	1.43e-03	1.43e-03	1.43e-03
2,3',4,4',5-PeCB	118			2580	4.45	0.00003	7.74e-02	7.74e-02	7.74e-02
2',3,4,4',5-PeCB	123			43.5	5.05	0.00003	1.31e-03	1.31e-03	1.31e-03
3,3',4,4',5-PeCB	126			6.91	5.93	0.1	6.91e-01	6.91e-01	6.91e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	445	3.10	0.00003	1.34e-02	1.34e-02	1.34e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			237	2.19	0.00003	7.11e-03	7.11e-03	7.11e-03
3,3',4,4',5,5'-HxCB	169		U		6.47	0.03	0.00e+00	9.71e-02	1.94e-01
2,3,3',4,4',5,5'-HpCB	189			39.8	0.960	0.00003	1.19e-03	1.19e-03	1.19e-03
TOTAL TEQ							0.825	0.922	1.02

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-17_TEQ_SJ1077661_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook - 10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-17

Sample Size: 0.163 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_330 S: 11

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			500	21.4	0.0001	5.00e-02	5.00e-02	5.00e-02	
3,4,4',5-TeCB	81		U		27.9	0.0003	0.00e+00	4.19e-03	8.37e-03	
2,3,3',4,4'-PeCB	105			12800	53.1	0.00003	3.84e-01	3.84e-01	3.84e-01	
2,3,4,4',5-PeCB	114			651	66.6	0.00003	1.95e-02	1.95e-02	1.95e-02	
2,3',4,4',5-PeCB	118			35200	60.6	0.00003	1.06e+00	1.06e+00	1.06e+00	
2',3,4,4',5-PeCB	123			593	68.8	0.00003	1.78e-02	1.78e-02	1.78e-02	
3,3',4,4',5-PeCB	126			94.2	80.8	0.1	9.42e+00	9.42e+00	9.42e+00	
2,3,3',4,4',5-HxCB	156	156 + 157	C	6060	42.2	0.00003	1.82e-01	1.82e-01	1.82e-01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			3230	29.8	0.00003	9.69e-02	9.69e-02	9.69e-02	
3,3',4,4',5,5'-HxCB	169		U		88.2	0.03	0.00e+00	1.32e+00	2.65e+00	
2,3,3',4,4',5,5'-HpCB	189			542	13.1	0.00003	1.63e-02	1.63e-02	1.63e-02	
TOTAL TEQ								11.2	12.6	13.9

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-17_TEQ_SJ1077661_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. N/A

Lab Sample I.D.: WG30036-101

Matrix: CANOLA OIL

Sample Size: 10.0 g

Sample Receipt Date: N/A

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 16-Oct-2009 Time: 12:34:19

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_312 S: 5

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_312 S: 1

Concentration Units: pg/g

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		0.054
Total Dichloro Biphenyls		1.07
Total Trichloro Biphenyls		0.557
Total Tetrachloro Biphenyls		0.977
Total Pentachloro Biphenyls		0.413
Total Hexachloro Biphenyls		0.795
Total Heptachloro Biphenyls		0.129
Total Octachloro Biphenyls	U	
Total Nonachloro Biphenyls	U	
Decachloro Biphenyl	U	
TOTAL PCBs		3.99

(1) Where applicable, custom lab flags have been used on this report; U = not detected.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_WG30036-101_Form1AHT_SJ1077140.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. N/A

Matrix: CANOLA OIL

Lab Sample I.D.: WG30036-101

Sample Size: 10.0 g

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g

Sample Data Filename(s): PB9C_312 S: 5

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77		U		0.0500	0.0001	0.00e+00	2.50e-06	5.00e-06
3,4,4',5-TeCB	81		U		0.0500	0.0003	0.00e+00	7.50e-06	1.50e-05
2,3,3',4,4'-PeCB	105			0.110	0.0500	0.00003	3.30e-06	3.30e-06	3.30e-06
2,3,4,4',5-PeCB	114		U		0.0500	0.00003	0.00e+00	7.50e-07	1.50e-06
2,3',4,4',5-PeCB	118		U		0.0500	0.00003	0.00e+00	7.50e-07	1.50e-06
2',3,4,4',5-PeCB	123		U		0.0500	0.00003	0.00e+00	7.50e-07	1.50e-06
3,3',4,4',5-PeCB	126		U		0.0500	0.1	0.00e+00	2.50e-03	5.00e-03
2,3,3',4,4',5-HxCB	156	156 + 157	C U		0.0517	0.00003	0.00e+00	7.76e-07	1.55e-06
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167		U		0.0500	0.00003	0.00e+00	7.50e-07	1.50e-06
3,3',4,4',5,5'-HxCB	169		U		0.0500	0.03	0.00e+00	7.50e-04	1.50e-03
2,3,3',4,4',5,5'-HpCB	189		U		0.0500	0.00003	0.00e+00	7.50e-07	1.50e-06
TOTAL TEQ							0.000003	0.00327	0.00653

- (1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
- (2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_WG30036-101_TEQ_SJ1077140.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females
(Duplicate)
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 29-Oct-2009 Time: 23:22:13

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: WG30036-103 (DUP L13452-6)

Sample Size: 10.2 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 4

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 80.7
% Lipid: 1.18

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		1.00
Total Dichloro Biphenyls		24.1
Total Trichloro Biphenyls		733
Total Tetrachloro Biphenyls		5480
Total Pentachloro Biphenyls		15400
Total Hexachloro Biphenyls		26600
Total Heptachloro Biphenyls		10000
Total Octachloro Biphenyls		2440
Total Nonachloro Biphenyls		580
Decachloro Biphenyl		188
TOTAL PCBs		61400

(1) Where applicable, custom lab flags have been used on this report.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
 Parker River- 10 Females
 (Duplicate)
 Sample Collection:
 N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
 Matrix: TISSUE
 Sample Receipt Date: 01-Sep-2009
 Extraction Date: 04-Sep-2009
 Analysis Date: 29-Oct-2009 Time: 23:22:13
 Extract Volume (uL): 20
 Injection Volume (uL): 1.0
 Dilution Factor: N/A
 Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
 Lab Sample I.D.: WG30036-103 (DUP L13452-6)
 Sample Size: 1.97 g (dry)
 Initial Calibration Date: 01-Sep-2009
 Instrument ID: HR GC/MS
 GC Column ID: SPB OCTYL
 Sample Data Filename: PB9C_330 S: 4
 Blank Data Filename: PB9C_312 S: 5
 Cal. Ver. Data Filename: PB9C_330 S: 1
 % Moisture: 80.7
 % Lipid: 1.18

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		5.18
Total Dichloro Biphenyls		125
Total Trichloro Biphenyls		3790
Total Tetrachloro Biphenyls		28400
Total Pentachloro Biphenyls		79800
Total Hexachloro Biphenyls		137000
Total Heptachloro Biphenyls		51800
Total Octachloro Biphenyls		12600
Total Nonachloro Biphenyls		3000
Decachloro Biphenyl		973
TOTAL PCBs		318000

(1) Where applicable, custom lab flags have been used on this report.
 (2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



HOMOLOGUE TOTAL PCB ANALYSIS REPORT

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: WG30036-103 (DUP L13452-6)

Matrix: TISSUE

Sample Size: 0.120 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 29-Oct-2009 Time: 23:22:13

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_330 S: 4

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_330 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 80.7
% Lipid: 1.18

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		84.8
Total Dichloro Biphenyls		2040
Total Trichloro Biphenyls		62100
Total Tetrachloro Biphenyls		465000
Total Pentachloro Biphenyls		1310000
Total Hexachloro Biphenyls		2250000
Total Heptachloro Biphenyls		847000
Total Octachloro Biphenyls		207000
Total Nonachloro Biphenyls		49100
Decachloro Biphenyl		15900
TOTAL PCBs		5200000

(1) Where applicable, custom lab flags have been used on this report.

(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females
(Duplicate)

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.2 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: WG30036-103 (DUP L13452-6)
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 4

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			67.9	3.91	0.0001	6.79e-03	6.79e-03	6.79e-03
3,4,4',5-TeCB	81		U		4.11	0.0003	0.00e+00	6.17e-04	1.23e-03
2,3,3',4,4'-PeCB	105			1040	4.41	0.00003	3.12e-02	3.12e-02	3.12e-02
2,3,4,4',5-PeCB	114			49.4	4.98	0.00003	1.48e-03	1.48e-03	1.48e-03
2,3',4,4',5-PeCB	118			2600	4.02	0.00003	7.80e-02	7.80e-02	7.80e-02
2',3,4,4',5-PeCB	123			45.7	5.24	0.00003	1.37e-03	1.37e-03	1.37e-03
3,3',4,4',5-PeCB	126			9.04	5.84	0.1	9.04e-01	9.04e-01	9.04e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	500	4.43	0.00003	1.50e-02	1.50e-02	1.50e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			239	3.05	0.00003	7.17e-03	7.17e-03	7.17e-03
3,3',4,4',5,5'-HxCB	169		U		6.46	0.03	0.00e+00	9.69e-02	1.94e-01
2,3,3',4,4',5,5'-HpCB	189			35.9	0.297	0.00003	1.08e-03	1.08e-03	1.08e-03
TOTAL TEQ							1.05	1.14	1.24

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_WG30036-103_TEQ_SJ1077647.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females
(Duplicate)

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 1.97 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: WG30036-103 (DUP L13452-6)
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_330 S: 4

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			352	20.2	0.0001	3.52e-02	3.52e-02	3.52e-02	
3,4,4',5-TeCB	81		U		21.3	0.0003	0.00e+00	3.20e-03	6.39e-03	
2,3,3',4,4'-PeCB	105			5390	22.8	0.00003	1.62e-01	1.62e-01	1.62e-01	
2,3,4,4',5-PeCB	114			256	25.8	0.00003	7.68e-03	7.68e-03	7.68e-03	
2,3',4,4',5-PeCB	118			13500	20.8	0.00003	4.05e-01	4.05e-01	4.05e-01	
2',3,4,4',5-PeCB	123			237	27.1	0.00003	7.11e-03	7.11e-03	7.11e-03	
3,3',4,4',5-PeCB	126			46.8	30.2	0.1	4.68e+00	4.68e+00	4.68e+00	
2,3,3',4,4',5-HxCB	156	156 + 157	C	2590	22.9	0.00003	7.77e-02	7.77e-02	7.77e-02	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			1240	15.8	0.00003	3.72e-02	3.72e-02	3.72e-02	
3,3',4,4',5,5'-HxCB	169		U		33.5	0.03	0.00e+00	5.03e-01	1.01e+00	
2,3,3',4,4',5,5'-HpCB	189			186	1.54	0.00003	5.58e-03	5.58e-03	5.58e-03	
TOTAL TEQ								5.42	5.92	6.43

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_WG30036-103_TEQ_SJ1077647_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females
(Duplicate)

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: WG30036-103 (DUP L13452-6)

Sample Size: 0.120 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_330 S: 4

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			5760	331	0.0001	5.76e-01	5.76e-01	5.76e-01
3,4,4',5-TeCB	81		U		349	0.0003	0.00e+00	5.24e-02	1.05e-01
2,3,3',4,4'-PeCB	105			88200	373	0.00003	2.65e+00	2.65e+00	2.65e+00
2,3,4,4',5-PeCB	114			4190	422	0.00003	1.26e-01	1.26e-01	1.26e-01
2,3',4,4',5-PeCB	118			221000	340	0.00003	6.63e+00	6.63e+00	6.63e+00
2',3,4,4',5-PeCB	123			3880	444	0.00003	1.16e-01	1.16e-01	1.16e-01
3,3',4,4',5-PeCB	126			766	494	0.1	7.66e+01	7.66e+01	7.66e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	42400	375	0.00003	1.27e+00	1.27e+00	1.27e+00
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			20300	259	0.00003	6.09e-01	6.09e-01	6.09e-01
3,3',4,4',5,5'-HxCB	169		U		548	0.03	0.00e+00	8.22e+00	1.64e+01
2,3,3',4,4',5,5'-HpCB	189			3040	25.2	0.00003	9.12e-02	9.12e-02	9.12e-02
TOTAL TEQ							88.7	96.9	105

- (1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 23-Dec-2009 10:09:12; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_HomTotals-TEQs_WG30036-103_TEQ_SJ1077647_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 4A
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_312 S: 1
Instrument ID: HR GC/MS Analysis Date: 16-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 08:09:26

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
2-MoCB	1			M/M+2	3.14	2.66-3.60	22.3	17.5 - 32.5
4-MoCB	3			M/M+2	3.10	2.66-3.60	24.2	17.5 - 32.5
2,2'-DiCB	4			M/M+2	1.50	1.33-1.79	25.5	17.5 - 32.5
4,4'-DiCB	15			M/M+2	1.52	1.33-1.79	26.1	21.4 - 39.8
2,2',6-TriCB	19			M/M+2	1.06	0.88-1.20	24.2	17.5 - 32.5
3,4,4'-TriCB	37			M/M+2	1.03	0.88-1.20	25.1	17.5 - 32.5
2,2',6,6'-TeCB	54			M/M+2	0.79	0.65-0.89	48.7	35.0 - 65.0
3,3',4,4'-TeCB	77			M/M+2	0.79	0.65-0.89	50.6	35.0 - 65.0
3,4,4',5-TeCB	81			M/M+2	0.78	0.65-0.89	54.6	35.0 - 65.0
2,2',4,6,6'-PeCB	104			M+2/M+4	1.56	1.32-1.78	48.5	35.0 - 65.0
2,3,3',4,4'-PeCB	105			M+2/M+4	1.56	1.32-1.78	53.6	35.0 - 65.0
2,3,4,4',5-PeCB	114			M+2/M+4	1.54	1.32-1.78	53.9	35.0 - 65.0
2,3',4,4',5-PeCB	118			M+2/M+4	1.54	1.32-1.78	51.9	35.0 - 65.0
2',3,4,4',5-PeCB	123			M+2/M+4	1.56	1.32-1.78	56.9	35.0 - 65.0
3,3',4,4',5-PeCB	126			M+2/M+4	1.56	1.32-1.78	57.3	39.0 - 72.4
2,2',4,4',6,6'-HxCB	155			M+2/M+4	1.27	1.05-1.43	49.2	35.0 - 65.0
2,3,3',4,4',5-HxCB	156	156 + 157	C	M+2/M+4	1.27	1.05-1.43	105	70.0 - 130
2,3,3',4,4',5'-HxCB	157	156 + 157	C156					
2,3',4,4',5,5'-HxCB	167			M+2/M+4	1.27	1.05-1.43	56.6	35.0 - 65.0
3,3',4,4',5,5'-HxCB	169			M+2/M+4	1.29	1.05-1.43	54.6	35.0 - 65.0
2,2',3,4',5,6,6'-HpCB	188			M+2/M+4	1.04	0.89-1.21	47.3	35.0 - 65.0
2,3,3',4,4',5,5'-HpCB	189			M+2/M+4	1.01	0.89-1.21	52.2	35.0 - 65.0
2,2',3,3',5,5',6,6'-OcCB	202			M+2/M+4	0.91	0.76-1.02	82.2	58.9 - 110
2,3,3',4,4',5,5',6-OcCB	205			M+2/M+4	0.91	0.76-1.02	78.9	52.5 - 97.5
2,2',3,3',4,4',5,5',6-NoCB	206			M+2/M+4	0.79	0.65-0.89	71.8	52.5 - 97.5
2,2',3,3',4,5,5',6,6'-NoCB	208			M+2/M+4	0.79	0.65-0.89	75.6	58.7 - 109
2,2',3,3',4,4',5,5',6,6'-DeCB	209			M+2/M+4	0.70	0.59-0.79	76.6	52.5 - 97.5

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4B
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_312 S: 1
Instrument ID: HR GC/MS Analysis Date: 16-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 08:09:26

LABELLED COMPOUND	IUPAC NO. 1	CO-ELUTIONS	LAB FLAG 2	MZ's FORMING RATIO 3	ION ABUND. RATIO	QC LIMITS 4	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
13C12-2-MoCB	1L			M/M+2	3.18	2.66-3.60	91.6	50.0 - 150
13C12-4-MoCB	3L			M/M+2	3.16	2.66-3.60	90.1	50.0 - 150
13C12-2,2'-DiCB	4L			M/M+2	1.58	1.33-1.79	102	50.0 - 150
13C12-4,4'-DiCB	15L			M/M+2	1.58	1.33-1.79	96.8	50.0 - 150
13C12-2,2',6-TriCB	19L			M/M+2	1.05	0.88-1.20	121	50.0 - 150
13C12-3,4,4'-TriCB	37L			M/M+2	1.05	0.88-1.20	89.2	50.0 - 150
13C12-2,2',6,6'-TeCB	54L			M/M+2	0.78	0.65-0.89	94.9	50.0 - 150
13C12-3,3',4,4'-TeCB	77L			M/M+2	0.77	0.65-0.89	119	50.0 - 150
13C12-3,4,4',5'-TeCB	81L			M/M+2	0.77	0.65-0.89	119	50.0 - 150
13C12-2,2',4,6,6'-PeCB	104L			M+2/M+4	1.58	1.32-1.78	94.9	50.0 - 150
13C12-2,3,3',4,4'-PeCB	105L			M+2/M+4	1.57	1.32-1.78	104	50.0 - 150
13C12-2,3,4,4',5'-PeCB	114L			M+2/M+4	1.59	1.32-1.78	99.5	50.0 - 150
13C12-2,3',4,4',5'-PeCB	118L			M+2/M+4	1.57	1.32-1.78	103	50.0 - 150
13C12-2',3,4,4',5'-PeCB	123L			M+2/M+4	1.58	1.32-1.78	104	50.0 - 150
13C12-3,3',4,4',5'-PeCB	126L			M+2/M+4	1.58	1.32-1.78	112	50.0 - 150
13C12-2,2',4,4',6,6'-HxCB	155L			M+2/M+4	1.23	1.05-1.43	93.6	50.0 - 150
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	M+2/M+4	1.29	1.05-1.43	212	100 - 300
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L	M+2/M+4	1.28	1.05-1.43	106	50.0 - 150
13C12-2,3',4,4',5,5'-HxCB	167L			M+2/M+4	1.30	1.05-1.43	115	50.0 - 150
13C12-3,3',4,4',5,5'-HxCB	169L			M+2/M+4	1.06	0.89-1.21	87.3	50.0 - 150
13C12-2,2',3,4',5,6,6'-HpCB	188L			M+2/M+4	1.07	0.89-1.21	106	50.0 - 150
13C12-2,3,3',4,4',5,5'-HpCB	189L			M+2/M+4	0.94	0.76-1.02	90.5	50.0 - 150
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			M+2/M+4	0.94	0.76-1.02	98.4	50.0 - 150
13C12-2,3,3',4,4',5,5',6-OxCB	205L			M+2/M+4	0.80	0.65-0.89	99.1	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			M+2/M+4	0.79	0.65-0.89	95.3	50.0 - 150
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			M+2/M+4	1.19	0.99-1.33	104	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			M+4/M+6				

CLEAN-UP STANDARD

13C12-2,4,4'-TriCB	28L			M/M+2	1.06	0.88-1.20	82.9	60.0 - 130
13C12-2,3,3',5,5'-PeCB	111L			M+2/M+4	1.60	1.32-1.78	104	60.0 - 130
13C12-2,2',3,3',5,5',6-HpCB	178L			M+2/M+4	1.04	0.89-1.21	102	60.0 - 130

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6A
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_312 S: 1
Instrument ID: HR GC/MS Analysis Date: 16-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 08:09:26

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RETENTION TIME REFERENCE	IUPAC NO. ²	RRT	RRT QC LIMITS
2-MoCB	1			13C12-2-MoCB	1L	1.001	0.999-1.004
4-MoCB	3			13C12-4-MoCB	3L	1.002	0.999-1.004
2,2'-DiCB	4			13C12-2,2'-DiCB	4L	1.001	0.999-1.004
4,4'-DiCB	15			13C12-4,4'-DiCB	15L	1.001	0.999-1.002
2,2',6-TriCB	19			13C12-2,2',6-TriCB	19L	1.001	0.999-1.003
3,4,4'-TriCB	37			13C12-3,4,4'-TriCB	37L	1.001	0.999-1.002
2,2',6,6'-TeCB	54			13C12-2,2',6,6'-TeCB	54L	1.001	0.999-1.002
3,3',4,4'-TeCB	77			13C12-3,3',4,4'-TeCB	77L	1.000	1.000-1.001
3,4,4',5-TeCB	81			13C12-3,4,4',5-TeCB	81L	1.000	1.000-1.001
2,2',4,6,6'-PeCB	104			13C12-2,2',4,6,6'-PeCB	104L	1.001	0.999-1.002
2,3,3',4,4'-PeCB	105			13C12-2,3,3',4,4'-PeCB	105L	1.001	1.000-1.001
2,3,4,4',5-PeCB	114			13C12-2,3,4,4',5-PeCB	114L	1.000	1.000-1.001
2,3',4,4',5-PeCB	118			13C12-2,3',4,4',5-PeCB	118L	1.001	1.000-1.001
2',3,4,4',5-PeCB	123			13C12-2',3,4,4',5-PeCB	123L	1.000	1.000-1.001
3,3',4,4',5-PeCB	126			13C12-3,3',4,4',5-PeCB	126L	1.001	1.000-1.001
2,2',4,4',6,6'-HxCB	155			13C12-2,2',4,4',6,6'-HxCB	155L	1.001	0.999-1.002
2,3,3',4,4',5-HxCB	156	156 + 157	C	13C12-2,3,3',4,4',5-HxCB and 13C12-2,3,3',4,4',5'-HxCB	156L/157L	1.000	0.998-1.003
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3',4,4',5,5'-HxCB	167			13C12-2,3',4,4',5,5'-HxCB	167L	1.000	1.000-1.001
3,3',4,4',5,5'-HxCB	169			13C12-3,3',4,4',5,5'-HxCB	169L	1.000	1.000-1.001
2,2',3,4',5,6,6'-HpCB	188			13C12-2,2',3,4',5,6,6'-HpCB	188L	1.000	1.000-1.001
2,3,3',4,4',5,5'-HpCB	189			13C12-2,3,3',4,4',5,5'-HpCB	189L	1.000	1.000-1.001
2,2',3,3',5,5',6,6'-OcCB	202			13C12-2,2',3,3',5,5',6,6'-OcCB	202L	1.001	1.000-1.001
2,3,3',4,4',5,5',6-OcCB	205			13C12-2,3,3',4,4',5,5',6-OcCB	205L	1.000	1.000-1.001
2,2',3,3',4,4',5,5',6-NoCB	206			13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	1.001	1.000-1.001
2,2',3,3',4,5,5',6,6'-NoCB	208			13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L	1.000	1.000-1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	1.001	1.000-1.001

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) Suffix "L" indicates labeled compound

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6B
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_312 S: 1
Instrument ID: HR GC/MS Analysis Date: 16-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 08:09:26

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RETENTION TIME REFERENCE	IUPAC NO. ¹	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			13C12-2,5-DiCB	9L	0.723	0.691-0.754
13C12-4-MoCB	3L			13C12-2,5-DiCB	9L	0.859	0.828-0.891
13C12-2,2'-DiCB	4L			13C12-2,5-DiCB	9L	0.876	0.845-0.907
13C12-4,4'-DiCB	15L			13C12-2,5-DiCB	9L	1.252	1.221-1.284
13C12-2,2',6-TriCB	19L			13C12-2,5-DiCB	9L	1.073	1.042-1.104
13C12-3,4,4'-TriCB	37L			13C12-2,2',5,5'-TeCB	52L	1.091	1.071-1.111
13C12-2,2',6,6'-TeCB	54L			13C12-2,2',5,5'-TeCB	52L	0.813	0.799-0.826
13C12-3,3',4,4'-TeCB	77L			13C12-2,2',5,5'-TeCB	52L	1.396	1.382-1.409
13C12-3,4,4',5-TeCB	81L			13C12-2,2',5,5'-TeCB	52L	1.372	1.359-1.386
13C12-2,2',4,6,6'-PeCB	104L			13C12-2,2',4,5,5'-PeCB	101L	0.809	0.798-0.819
13C12-2,3,3',4,4'-PeCB	105L			13C12-2,2',4,5,5'-PeCB	101L	1.200	1.190-1.210
13C12-2,3,4,4',5-PeCB	114L			13C12-2,2',4,5,5'-PeCB	101L	1.179	1.168-1.189
13C12-2,3',4,4',5-PeCB	118L			13C12-2,2',4,5,5'-PeCB	101L	1.161	1.151-1.171
13C12-2',3,4,4',5-PeCB	123L			13C12-2,2',4,5,5'-PeCB	101L	1.151	1.140-1.161
13C12-3,3',4,4',5-PeCB	126L			13C12-2,2',4,5,5'-PeCB	101L	1.300	1.290-1.311
13C12-2,2',4,4',6,6'-HxCB	155L			13C12-2,2',3,4,4',5'-HxCB	138L	0.785	0.777-0.793
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	13C12-2,2',3,4,4',5'-HxCB	138L	1.107	1.099-1.116
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L				
13C12-2,3',4,4',5,5'-HxCB	167L			13C12-2,2',3,4,4',5'-HxCB	138L	1.077	1.069-1.085
13C12-3,3',4,4',5,5'-HxCB	169L			13C12-2,2',3,4,4',5'-HxCB	138L	1.191	1.182-1.199
13C12-2,2',3,4',5,6,6'-HpCB	188L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.712	0.706-0.719
13C12-2,3,3',4,4',5,5'-HpCB	189L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.959	0.953-0.965
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.818	0.812-0.824
13C12-2,3,3',4,4',5,5',6-OcCB	205L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.009	1.000-1.019
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.043	1.034-1.053
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.949	0.943-0.956
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.075	1.065-1.084

CLEANUP STANDARD

13C12-2,4,4'-TriCB	28L			13C12-2,2',5,5'-TeCB	52L	0.925	0.911-0.938
13C12-2,3,3',5,5'-PeCB	111L			13C12-2,2',4,5,5'-PeCB	101L	1.086	1.076-1.097
13C12-2,2',3,3',5,5',6-HpCB	178L			13C12-2,2',3,4,4',5'-HxCB	138L	1.011	1.003-1.019

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Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

CAL Data Filename: PB9C_312 S: 1

Instrument ID: HR GC/MS

Analysis Date: 16-Oct-2009

GC Column ID: SPB OCTYL

Analysis Time: 08:09:26

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3-MoCB	2			1.04	M/M+2	3.17	2.66-3.60	0.989	0.985 - 0.993
2,3-DiCB	5			1.07	M/M+2	1.59	1.33-1.79	1.196	1.193 - 1.200
2,3'-DiCB	6			1.17	M/M+2	1.51	1.33-1.79	1.174	1.170 - 1.177
2,4-DiCB	7			1.16	M/M+2	1.53	1.33-1.79	1.155	1.151 - 1.158
2,4'-DiCB	8			1.27	M/M+2	1.50	1.33-1.79	1.205	1.201 - 1.208
2,5-DiCB	9			1.20	M/M+2	1.50	1.33-1.79	1.143	1.139 - 1.146
2,6-DiCB	10			1.25	M/M+2	1.50	1.33-1.79	1.013	1.010 - 1.017
3,3'-DiCB	11			1.13	M/M+2	1.51	1.33-1.79	0.969	0.967 - 0.972
3,4-DiCB	12	12 + 13	C	1.12	M/M+2	1.53	1.33-1.79	0.985	0.983 - 0.988
3,4'-DiCB	13	12 + 13	C12						
3,5-DiCB	14			1.17	M/M+2	1.52	1.33-1.79	0.925	0.923 - 0.928
2,2',3-TriCB	16			0.68	M/M+2	1.04	0.88-1.20	1.164	1.161 - 1.167
2,2',4-TriCB	17			0.81	M/M+2	1.02	0.88-1.20	1.136	1.133 - 1.139
2,2',5-TriCB	18	18 + 30	C	0.97	M/M+2	1.04	0.88-1.20	1.110	1.107 - 1.113
2,3,3'-TriCB	20	20 + 28	C	1.19	M/M+2	1.03	0.88-1.20	0.848	0.845 - 0.851
2,3,4-TriCB	21	21 + 33	C	1.24	M/M+2	1.01	0.88-1.20	0.856	0.853 - 0.859
2,3,4'-TriCB	22			1.11	M/M+2	1.02	0.88-1.20	0.872	0.870 - 0.874
2,3,5-TriCB	23			1.10	M/M+2	1.02	0.88-1.20	1.278	1.275 - 1.281
2,3,6-TriCB	24			1.07	M/M+2	1.04	0.88-1.20	1.157	1.155 - 1.160
2,3',4-TriCB	25			1.31	M/M+2	1.02	0.88-1.20	0.825	0.823 - 0.827
2,3',5-TriCB	26	26 + 29	C	1.17	M/M+2	1.03	0.88-1.20	1.298	1.293 - 1.303
2,3',6-TriCB	27			1.14	M/M+2	1.04	0.88-1.20	1.150	1.147 - 1.153
2,4,4'-TriCB	28	20 + 28	C20						
2,4,5-TriCB	29	26 + 29	C26						
2,4,6-TriCB	30	18 + 30	C18						
2,4',5-TriCB	31			1.26	M/M+2	1.03	0.88-1.20	0.837	0.835 - 0.839
2,4',6-TriCB	32			1.22	M/M+2	1.02	0.88-1.20	1.195	1.192 - 1.198
2',3,4-TriCB	33	21 + 33	C21						
2',3,5-TriCB	34			1.14	M/M+2	1.03	0.88-1.20	1.270	1.267 - 1.273
3,3',4-TriCB	35			1.14	M/M+2	1.03	0.88-1.20	0.985	0.983 - 0.987
3,3',5-TriCB	36			1.25	M/M+2	1.04	0.88-1.20	0.931	0.929 - 0.933
3,4,5-TriCB	38			1.25	M/M+2	1.04	0.88-1.20	0.967	0.965 - 0.969
3,4',5-TriCB	39			1.22	M/M+2	1.04	0.88-1.20	0.945	0.943 - 0.947
2,2',3,3'-TeCB	40	40 + 41 + 71	C	0.76	M/M+2	0.78	0.65-0.89	1.333	1.329 - 1.337
2,2',3,4-TeCB	41	40 + 41 + 71	C40						
2,2',3,4'-TeCB	42			0.72	M/M+2	0.78	0.65-0.89	1.310	1.307 - 1.312
2,2',3,5-TeCB	43			0.60	M/M+2	0.79	0.65-0.89	1.245	1.242 - 1.247
2,2',3,5'-TeCB	44	44 + 47 + 65	C	0.79	M/M+2	0.78	0.65-0.89	1.283	1.279 - 1.287
2,2',3,6-TeCB	45	45 + 51	C	0.70	M/M+2	0.78	0.65-0.89	1.145	1.141 - 1.149
2,2',3,6'-TeCB	46			0.62	M/M+2	0.78	0.65-0.89	1.160	1.158 - 1.163
2,2',4,4'-TeCB	47	44 + 47 + 65	C44						
2,2',4,5-TeCB	48			0.71	M/M+2	0.79	0.65-0.89	1.270	1.268 - 1.273
2,2',4,5'-TeCB	49	49 + 69	C	0.83	M/M+2	0.78	0.65-0.89	1.255	1.250 - 1.259
2,2',4,6-TeCB	50	50 + 53	C	0.70	M/M+2	0.78	0.65-0.89	1.111	1.107 - 1.115
2,2',4,6'-TeCB	51	45 + 51	C45						
2,2',5,5'-TeCB	52			0.78	M/M+2	0.79	0.65-0.89	1.232	1.229 - 1.234
2,2',5,6'-TeCB	53	50 + 53	C50						
2,3,3',4-TeCB	55			1.00	M/M+2	0.77	0.65-0.89	0.890	0.888 - 0.891
2,3,3',4'-TeCB	56			1.03	M/M+2	0.77	0.65-0.89	0.905	0.903 - 0.906



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,3,3',5'-TeCB	57			1.00	M/M+2	0.77	0.65-0.89	0.843	0.842 - 0.845
2,3,3',5'-TeCB	58			1.01	M/M+2	0.78	0.65-0.89	0.851	0.849 - 0.852
2,3,3',6'-TeCB	59	59 + 62 + 75	C	0.95	M/M+2	0.78	0.65-0.89	1.299	1.295 - 1.303
2,3,4,4'-TeCB	60			1.02	M/M+2	0.78	0.65-0.89	0.911	0.910 - 0.912
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76		1.06	M/M+2	0.77	0.65-0.89	0.874	0.871 - 0.877
2,3,4,6'-TeCB	62	59 + 62 + 75	C59						
2,3,4',5'-TeCB	63			1.08	M/M+2	0.78	0.65-0.89	0.864	0.862 - 0.865
2,3,4',6'-TeCB	64			1.04	M/M+2	0.78	0.65-0.89	1.346	1.343 - 1.348
2,3,5,6'-TeCB	65	44 + 47 + 65	C44						
2,3',4,4'-TeCB	66			1.12	M/M+2	0.77	0.65-0.89	0.884	0.882 - 0.885
2,3',4,5'-TeCB	67			1.13	M/M+2	0.77	0.65-0.89	0.856	0.855 - 0.858
2,3',4,5'-TeCB	68			1.03	M/M+2	0.77	0.65-0.89	0.831	0.829 - 0.832
2,3',4,6'-TeCB	69	49 + 69	C49						
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61						
2,3',4',6'-TeCB	71	40 + 41 + 71	C40						
2,3',5,5'-TeCB	72			1.03	M/M+2	0.77	0.65-0.89	0.822	0.821 - 0.824
2,3',5',6'-TeCB	73			0.95	M/M+2	0.79	0.65-0.89	1.238	1.236 - 1.241
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61						
2,4,4',6'-TeCB	75	59 + 62 + 75	C59						
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61						
3,3',4,5'-TeCB	78			1.12	M/M+2	0.78	0.65-0.89	0.987	0.985 - 0.988
3,3',4,5'-TeCB	79			1.34	M/M+2	0.79	0.65-0.89	0.970	0.968 - 0.971
3,3',5,5'-TeCB	80			1.16	M/M+2	0.79	0.65-0.89	0.923	0.921 - 0.924
2,2',3,3',4'-PeCB	82			0.69	M+2/M+4	1.60	1.32-1.78	0.935	0.933 - 0.936
2,2',3,3',5'-PeCB	83	83 + 99	C	0.74	M+2/M+4	1.58	1.32-1.78	0.885	0.882 - 0.888
2,2',3,3',6'-PeCB	84			0.65	M+2/M+4	1.56	1.32-1.78	1.164	1.162 - 1.166
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	0.90	M+2/M+4	1.58	1.32-1.78	0.920	0.917 - 0.922
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	0.87	M+2/M+4	1.58	1.32-1.78	0.901	0.897 - 0.904
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3,4,6'-PeCB	88	88 + 91	C	0.73	M+2/M+4	1.58	1.32-1.78	1.152	1.148 - 1.156
2,2',3,4,6'-PeCB	89			0.70	M+2/M+4	1.59	1.32-1.78	1.183	1.181 - 1.185
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C	0.84	M+2/M+4	1.59	1.32-1.78	0.869	0.866 - 0.871
2,2',3,4',6'-PeCB	91	88 + 91	C88						
2,2',3,5,5'-PeCB	92			0.74	M+2/M+4	1.57	1.32-1.78	0.853	0.852 - 0.855
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C	0.74	M+2/M+4	1.58	1.32-1.78	1.130	1.119 - 1.141
2,2',3,5,6'-PeCB	94			0.66	M+2/M+4	1.56	1.32-1.78	1.102	1.100 - 1.104
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93						
2,2',3,6,6'-PeCB	96			0.92	M+2/M+4	1.54	1.32-1.78	1.017	1.013 - 1.020
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93						
2,2',4,4',5'-PeCB	99	83 + 99	C83						
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93						
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90						
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93						
2,2',4,5',6'-PeCB	103			0.79	M+2/M+4	1.55	1.32-1.78	1.092	1.091 - 1.094
2,3,3',4,5'-PeCB	106			1.03	M+2/M+4	1.55	1.32-1.78	1.004	1.003 - 1.005
2,3,3',4',5'-PeCB	107	107 + 124	C	1.02	M+2/M+4	1.57	1.32-1.78	0.991	0.988 - 0.993
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3,3',4,6'-PeCB	109			1.13	M+2/M+4	1.57	1.32-1.78	0.997	0.995 - 0.998
2,3,3',4',6'-PeCB	110	110 + 115	C	1.02	M+2/M+4	1.58	1.32-1.78	0.926	0.924 - 0.929
2,3,3',5,5'-PeCB	111			1.02	M+2/M+4	1.57	1.32-1.78	0.944	0.943 - 0.946
2,3,3',5,6'-PeCB	112			1.02	M+2/M+4	1.58	1.32-1.78	0.889	0.888 - 0.891
2,3,3',5',6'-PeCB	113	90 + 101 + 113	C90						
2,3,4,4',6'-PeCB	115	110 + 115	C110						
2,3,4,5,6'-PeCB	116	85 + 116 + 117	C85						
2,3,4',5,6'-PeCB	117	85 + 116 + 117	C85						
2,3',4,4',6'-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3',4,5,5'-PeCB	120			1.07	M+2/M+4	1.58	1.32-1.78	0.958	0.956 - 0.959
2,3',4,5',6'-PeCB	121			0.95	M+2/M+4	1.57	1.32-1.78	1.198	1.196 - 1.200
2',3,3',4,5'-PeCB	122			0.97	M+2/M+4	1.55	1.32-1.78	1.011	1.009 - 1.012
2',3,4,5,5'-PeCB	124	107 + 124	C107						
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86						



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3,3',4,5,5'-PeCB	127			1.07	M+2/M+4	1.57	1.32-1.78	1.040	1.039 - 1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	0.94	M+2/M+4	1.25	1.05-1.43	0.959	0.957 - 0.961
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	0.92	M+2/M+4	1.26	1.05-1.43	0.930	0.928 - 0.933
2,2',3,3',4,5'-HxCB	130			0.74	M+2/M+4	1.25	1.05-1.43	0.914	0.912 - 0.915
2,2',3,3',4,6-HxCB	131			0.78	M+2/M+4	1.25	1.05-1.43	1.161	1.159 - 1.162
2,2',3,3',4,6'-HxCB	132			0.74	M+2/M+4	1.25	1.05-1.43	1.176	1.173 - 1.179
2,2',3,3',5,5'-HxCB	133			0.80	M+2/M+4	1.26	1.05-1.43	1.191	1.190 - 1.193
2,2',3,3',5,6-HxCB	134	134 + 143	C	0.76	M+2/M+4	1.26	1.05-1.43	1.143	1.140 - 1.146
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	0.78	M+2/M+4	1.26	1.05-1.43	1.107	1.102 - 1.113
2,2',3,3',6,6'-HxCB	136			0.98	M+2/M+4	1.29	1.05-1.43	1.027	1.025 - 1.028
2,2',3,4,4',5-HxCB	137			0.80	M+2/M+4	1.26	1.05-1.43	0.919	0.917 - 0.920
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129						
2,2',3,4,4',6-HxCB	139	139 + 140	C	0.83	M+2/M+4	1.26	1.05-1.43	1.154	1.151 - 1.156
2,2',3,4,4',6'-HxCB	140	139 + 140	C139						
2,2',3,4,5,5'-HxCB	141			0.84	M+2/M+4	1.26	1.05-1.43	0.904	0.903 - 0.905
2,2',3,4,5,6-HxCB	142			0.73	M+2/M+4	1.28	1.05-1.43	1.166	1.164 - 1.167
2,2',3,4,5,6'-HxCB	143	134 + 143	C134						
2,2',3,4,5',6-HxCB	144			0.76	M+2/M+4	1.26	1.05-1.43	1.122	1.121 - 1.124
2,2',3,4,6,6'-HxCB	145			0.93	M+2/M+4	1.26	1.05-1.43	1.036	1.034 - 1.037
2,2',3,4',5,5'-HxCB	146			0.90	M+2/M+4	1.26	1.05-1.43	0.884	0.883 - 0.885
2,2',3,4',5,6-HxCB	147	147 + 149	C	0.84	M+2/M+4	1.25	1.05-1.43	1.134	1.132 - 1.137
2,2',3,4',5,6'-HxCB	148			0.73	M+2/M+4	1.27	1.05-1.43	1.084	1.082 - 1.085
2,2',3,4',5,6-HxCB	149	147 + 149	C147						
2,2',3,4',6,6'-HxCB	150			0.96	M+2/M+4	1.26	1.05-1.43	1.014	1.012 - 1.015
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135						
2,2',3,5,6,6'-HxCB	152			1.03	M+2/M+4	1.26	1.05-1.43	1.008	1.007 - 1.010
2,2',4,4',5,5'-HxCB	153	153 + 168	C	1.01	M+2/M+4	1.26	1.05-1.43	0.900	0.898 - 0.901
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135						
2,3,3',4,4',6-HxCB	158			1.13	M+2/M+4	1.27	1.05-1.43	0.938	0.937 - 0.939
2,3,3',4,5,5'-HxCB	159			1.09	M+2/M+4	1.28	1.05-1.43	0.982	0.981 - 0.984
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129						
2,3,3',4,5',6-HxCB	161			1.03	M+2/M+4	1.28	1.05-1.43	0.887	0.886 - 0.888
2,3,3',4',5,5'-HxCB	162			1.04	M+2/M+4	1.28	1.05-1.43	0.989	0.988 - 0.990
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129						
2,3,3',4',5',6-HxCB	164			1.03	M+2/M+4	1.29	1.05-1.43	0.922	0.921 - 0.923
2,3,3',5,5',6-HxCB	165			0.94	M+2/M+4	1.28	1.05-1.43	0.878	0.877 - 0.880
2,3,4,4',5,6-HxCB	166	128 + 166	C128						
2,3',4,4',5,6-HxCB	168	153 + 168	C153						
2,2',3,3',4,4',5-HpCB	170			0.68	M+2/M+4	1.03	0.89-1.21	0.936	0.935 - 0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	0.67	M+2/M+4	1.05	0.89-1.21	1.163	1.161 - 1.165
2,2',3,3',4,5,5'-HpCB	172			0.67	M+2/M+4	1.04	0.89-1.21	0.897	0.896 - 0.898
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171						
2,2',3,3',4,5,6'-HpCB	174			0.72	M+2/M+4	1.06	0.89-1.21	1.134	1.132 - 1.135
2,2',3,3',4,5',6-HpCB	175			0.71	M+2/M+4	1.05	0.89-1.21	1.102	1.101 - 1.104
2,2',3,3',4,6,6'-HpCB	176			0.92	M+2/M+4	1.04	0.89-1.21	1.035	1.034 - 1.036
2,2',3,3',4',5,6-HpCB	177			0.71	M+2/M+4	1.06	0.89-1.21	1.146	1.145 - 1.147
2,2',3,3',5,5',6-HpCB	178			0.70	M+2/M+4	1.04	0.89-1.21	1.085	1.083 - 1.086
2,2',3,3',5,6,6'-HpCB	179			0.94	M+2/M+4	1.05	0.89-1.21	1.011	1.009 - 1.012
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	0.84	M+2/M+4	1.05	0.89-1.21	0.910	0.909 - 0.911
2,2',3,4,4',5,6-HpCB	181			0.70	M+2/M+4	1.04	0.89-1.21	1.156	1.155 - 1.158
2,2',3,4,4',5,6'-HpCB	182			0.74	M+2/M+4	1.06	0.89-1.21	1.116	1.114 - 1.117
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	0.73	M+2/M+4	1.05	0.89-1.21	1.128	1.127 - 1.129
2,2',3,4,4',6,6'-HpCB	184			0.96	M+2/M+4	1.04	0.89-1.21	1.024	1.023 - 1.026
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183						
2,2',3,4,5,6,6'-HpCB	186			0.88	M+2/M+4	1.06	0.89-1.21	1.048	1.046 - 1.049
2,2',3,4',5,5',6-HpCB	187			0.78	M+2/M+4	1.06	0.89-1.21	1.109	1.108 - 1.111
2,3,3',4,4',5,6-HpCB	190			0.90	M+2/M+4	1.04	0.89-1.21	0.947	0.946 - 0.948
2,3,3',4,4',5',6-HpCB	191			0.92	M+2/M+4	1.06	0.89-1.21	0.917	0.916 - 0.918
2,3,3',4,5,5',6-HpCB	192			0.81	M+2/M+4	1.05	0.89-1.21	0.903	0.902 - 0.904
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180						
2,2',3,3',4,4',5,5'-OcCB	194			0.92	M+2/M+4	0.90	0.76-1.02	0.991	0.990 - 0.992
2,2',3,3',4,4',5,6-OcCB	195			0.84	M+2/M+4	0.90	0.76-1.02	0.946	0.945 - 0.947
2,2',3,3',4,4',5,6'-OcCB	196			0.74	M+2/M+4	0.89	0.76-1.02	0.916	0.915 - 0.917



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,2',3,3',4,4',6,6'-O ₂ CB	197	197 + 200	C	0.97	M+2/M+4	0.90	0.76-1.02	1.046	1.043 - 1.048
2,2',3,3',4,5,5',6-O ₂ CB	198	198 + 199	C	0.72	M+2/M+4	0.91	0.76-1.02	1.114	1.112 - 1.116
2,2',3,3',4,5,5',6'-O ₂ CB	199	198 + 199	C198						
2,2',3,3',4,5,6,6'-O ₂ CB	200	197 + 200	C197						
2,2',3,3',4,5',6,6'-O ₂ CB	201			0.98	M+2/M+4	0.90	0.76-1.02	1.023	1.021 - 1.025
2,2',3,4,4',5,5',6-O ₂ CB	203			0.76	M+2/M+4	0.91	0.76-1.02	0.919	0.918 - 0.920
2,2',3,4,4',5,6,6'-O ₂ CB	204			0.97	M+2/M+4	0.91	0.76-1.02	1.039	1.038 - 1.040
2,2',3,3',4,4',5,6,6'-No ₂ CB	207			1.16	M+2/M+4	0.79	0.65-0.89	1.020	1.019 - 1.021

- (1) Where applicable, custom lab flags have been used on this report.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form1668346A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13;
Report Filename: 1668_PCB1668_PB9C_312S1__Form346A_SJ1077151_GS34281.html; Workgroup: WG30036; Design ID: 1193]



PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL

CAL Data Filename: PB9C_312 S: 1
Analysis Date: 16-Oct-2009
Analysis Time: 08:09:26

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RRF	MZ's FORMING RATIO ³	ION ABUND. RATIO	RATIO QC LIMITS ⁴	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			0.90	M/M+2	3.18	2.66-3.60	0.723	0.707 - 0.738
13C12-4-MoCB	3L			0.86	M/M+2	3.16	2.66-3.60	0.859	0.844 - 0.875
13C12-2,2'-DiCB	4L			0.66	M/M+2	1.58	1.33-1.79	0.876	0.860 - 0.892
13C12-4,4'-DiCB	15L			0.98	M/M+2	1.58	1.33-1.79	1.252	1.237 - 1.268
13C12-2,2',6-TriCB	19L			0.60	M/M+2	1.05	0.88-1.20	1.073	1.057 - 1.089
13C12-3,4,4'-TriCB	37L			1.57	M/M+2	1.05	0.88-1.20	1.091	1.081 - 1.101
13C12-2,2',6,6'-TeCB	54L			1.27	M/M+2	0.78	0.65-0.89	0.813	0.806 - 0.819
13C12-3,3',4,4'-TeCB	77L			1.55	M/M+2	0.77	0.65-0.89	1.396	1.389 - 1.402
13C12-3,4,4',5-TeCB	81L			1.58	M/M+2	0.77	0.65-0.89	1.372	1.366 - 1.379
13C12-2,2',4,4',6,6'-PeCB	104L			1.14	M+2/M+4	1.58	1.32-1.78	0.809	0.804 - 0.814
13C12-2,3,3',4,4'-PeCB	105L			1.39	M+2/M+4	1.57	1.32-1.78	1.200	1.195 - 1.205
13C12-2,3,4,4',5-PeCB	114L			1.39	M+2/M+4	1.59	1.32-1.78	1.179	1.174 - 1.184
13C12-2,3',4,4',5-PeCB	118L			1.43	M+2/M+4	1.57	1.32-1.78	1.161	1.156 - 1.166
13C12-2',3,4,4',5-PeCB	123L			1.45	M+2/M+4	1.58	1.32-1.78	1.151	1.145 - 1.156
13C12-3,3',4,4',5-PeCB	126L			1.33	M+2/M+4	1.58	1.32-1.78	1.300	1.295 - 1.305
13C12-2,2',4,4',6,6'-HxCB	155L			1.33	M+2/M+4	1.23	1.05-1.43	0.785	0.781 - 0.789
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	1.29	M+2/M+4	1.29	1.05-1.43	1.107	1.103 - 1.112
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L						
13C12-2,3',4,4',5,5'-HxCB	167L			1.26	M+2/M+4	1.28	1.05-1.43	1.077	1.073 - 1.081
13C12-3,3',4,4',5,5'-HxCB	169L			1.28	M+2/M+4	1.30	1.05-1.43	1.191	1.186 - 1.195
13C12-2,2',3,3',4,4',5-HpCB	170L			0.89	M+2/M+4	1.07	0.89-1.21	0.898	0.894 - 0.902
13C12-2,2',3,4,4',5,5'-HpCB	180L			1.07	M+2/M+4	1.06	0.89-1.21	0.873	0.869 - 0.877
13C12-2,2',3,4',5,6,6'-HpCB	188L			1.39	M+2/M+4	1.06	0.89-1.21	0.712	0.708 - 0.716
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.51	M+2/M+4	1.07	0.89-1.21	0.959	0.954 - 0.964
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			1.13	M+2/M+4	0.94	0.76-1.02	0.818	0.814 - 0.822
13C12-2,3,3',4,4',5,5',6-OcCB	205L			1.30	M+2/M+4	0.94	0.76-1.02	1.009	1.004 - 1.014
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.83	M+2/M+4	0.80	0.65-0.89	1.043	1.038 - 1.048
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			1.07	M+2/M+4	0.79	0.65-0.89	0.949	0.944 - 0.954

- (1) Suffix "L" indicates labeled compound
- (2) Where applicable, custom lab flags have been used on this report.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4A
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_330 S: 1
Instrument ID: HR GC/MS Analysis Date: 29-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 20:09:08

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
2-MoCB	1			M/M+2	3.11	2.66-3.60	22.9	17.5 - 32.5
4-MoCB	3			M/M+2	3.08	2.66-3.60	25.7	17.5 - 32.5
2,2'-DiCB	4			M/M+2	1.51	1.33-1.79	25.4	17.5 - 32.5
4,4'-DiCB	15			M/M+2	1.52	1.33-1.79	26.5	21.4 - 39.8
2,2',6-TriCB	19			M/M+2	1.05	0.88-1.20	26.2	17.5 - 32.5
3,4,4'-TriCB	37			M/M+2	1.01	0.88-1.20	23.8	17.5 - 32.5
2,2',6,6'-TeCB	54			M/M+2	0.80	0.65-0.89	50.6	35.0 - 65.0
3,3',4,4'-TeCB	77			M/M+2	0.79	0.65-0.89	43.6	35.0 - 65.0
3,4,4',5-TeCB	81			M/M+2	0.78	0.65-0.89	50.7	35.0 - 65.0
2,2',4,6,6'-PeCB	104			M+2/M+4	1.59	1.32-1.78	51.1	35.0 - 65.0
2,3,3',4,4'-PeCB	105			M+2/M+4	1.64	1.32-1.78	49.3	35.0 - 65.0
2,3,4,4',5-PeCB	114			M+2/M+4	1.53	1.32-1.78	50.4	35.0 - 65.0
2,3',4,4',5-PeCB	118			M+2/M+4	1.51	1.32-1.78	47.0	35.0 - 65.0
2',3,4,4',5-PeCB	123			M+2/M+4	1.53	1.32-1.78	53.3	35.0 - 65.0
3,3',4,4',5-PeCB	126			M+2/M+4	1.61	1.32-1.78	51.7	39.0 - 72.4
2,2',4,4',6,6'-HxCB	155			M+2/M+4	1.27	1.05-1.43	51.6	35.0 - 65.0
2,3,3',4,4',5-HxCB	156	156 + 157	C	M+2/M+4	1.25	1.05-1.43	102	70.0 - 130
2,3,3',4,4',5'-HxCB	157	156 + 157	C156					
2,3',4,4',5,5'-HxCB	167			M+2/M+4	1.26	1.05-1.43	56.8	35.0 - 65.0
3,3',4,4',5,5'-HxCB	169			M+2/M+4	1.34	1.05-1.43	58.4	35.0 - 65.0
2,2',3,4',5,6,6'-HpCB	188			M+2/M+4	1.05	0.89-1.21	48.9	35.0 - 65.0
2,3,3',4,4',5,5'-HpCB	189			M+2/M+4	0.99	0.89-1.21	48.7	35.0 - 65.0
2,2',3,3',5,5',6,6'-OcCB	202			M+2/M+4	0.91	0.76-1.02	79.6	58.9 - 110
2,3,3',4,4',5,5',6-OcCB	205			M+2/M+4	0.89	0.76-1.02	74.6	52.5 - 97.5
2,2',3,3',4,4',5,5',6-NoCB	206			M+2/M+4	0.78	0.65-0.89	70.2	52.5 - 97.5
2,2',3,3',4,5,5',6,6'-NoCB	208			M+2/M+4	0.80	0.65-0.89	73.1	58.7 - 109
2,2',3,3',4,4',5,5',6,6'-DeCB	209			M+2/M+4	0.71	0.59-0.79	78.1	52.5 - 97.5

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4B
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_330 S: 1
Instrument ID: HR GC/MS Analysis Date: 29-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 20:09:08

LABELLED COMPOUND	IUPAC NO. 1	CO-ELUTIONS	LAB FLAG 2	MZ's FORMING RATIO 3	ION ABUND. RATIO	QC LIMITS 4	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
13C12-2-MoCB	1L			M/M+2	3.24	2.66-3.60	104	50.0 - 150
13C12-4-MoCB	3L			M/M+2	3.18	2.66-3.60	97.2	50.0 - 150
13C12-2,2'-DiCB	4L			M/M+2	1.58	1.33-1.79	104	50.0 - 150
13C12-4,4'-DiCB	15L			M/M+2	1.56	1.33-1.79	82.1	50.0 - 150
13C12-2,2',6-TriCB	19L			M/M+2	1.06	0.88-1.20	99.5	50.0 - 150
13C12-3,4,4'-TriCB	37L			M/M+2	1.03	0.88-1.20	82.5	50.0 - 150
13C12-2,2',6,6'-TeCB	54L			M/M+2	0.81	0.65-0.89	111	50.0 - 150
13C12-3,3',4,4'-TeCB	77L			M/M+2	0.80	0.65-0.89	84.3	50.0 - 150
13C12-3,4,4',5'-TeCB	81L			M/M+2	0.79	0.65-0.89	81.2	50.0 - 150
13C12-2,2',4,6,6'-PeCB	104L			M+2/M+4	1.59	1.32-1.78	102	50.0 - 150
13C12-2,3,3',4,4'-PeCB	105L			M+2/M+4	1.55	1.32-1.78	82.5	50.0 - 150
13C12-2,3,4,4',5'-PeCB	114L			M+2/M+4	1.57	1.32-1.78	81.4	50.0 - 150
13C12-2,3',4,4',5'-PeCB	118L			M+2/M+4	1.54	1.32-1.78	83.5	50.0 - 150
13C12-2',3,4,4',5'-PeCB	123L			M+2/M+4	1.55	1.32-1.78	83.2	50.0 - 150
13C12-3,3',4,4',5'-PeCB	126L			M+2/M+4	1.57	1.32-1.78	83.1	50.0 - 150
13C12-2,2',4,4',6,6'-HxCB	155L			M+2/M+4	1.27	1.05-1.43	102	50.0 - 150
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	M+2/M+4	1.27	1.05-1.43	205	100 - 300
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			M+2/M+4	1.28	1.05-1.43	102	50.0 - 150
13C12-3,3',4,4',5,5'-HxCB	169L			M+2/M+4	1.29	1.05-1.43	108	50.0 - 150
13C12-2,2',3,4',5,6,6'-HpCB	188L			M+2/M+4	1.08	0.89-1.21	105	50.0 - 150
13C12-2,3,3',4,4',5,5'-HpCB	189L			M+2/M+4	1.05	0.89-1.21	87.5	50.0 - 150
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			M+2/M+4	0.94	0.76-1.02	104	50.0 - 150
13C12-2,3,3',4,4',5,5',6-OxCB	205L			M+2/M+4	0.95	0.76-1.02	92.6	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			M+2/M+4	0.81	0.65-0.89	98.3	50.0 - 150
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			M+2/M+4	0.83	0.65-0.89	107	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			M+4/M+6	1.19	0.99-1.33	100	50.0 - 150

CLEAN-UP STANDARD

13C12-2,4,4'-TriCB	28L			M/M+2	1.04	0.88-1.20	94.1	60.0 - 130
13C12-2,3,3',5,5'-PeCB	111L			M+2/M+4	1.60	1.32-1.78	100	60.0 - 130
13C12-2,2',3,3',5,5',6-HpCB	178L			M+2/M+4	1.07	0.89-1.21	94.9	60.0 - 130

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6A
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_330 S: 1
Instrument ID: HR GC/MS Analysis Date: 29-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 20:09:08

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RETENTION TIME REFERENCE	IUPAC NO. ²	RRT	RRT QC LIMITS
2-MoCB	1			13C12-2-MoCB	1L	1.000	0.999-1.004
4-MoCB	3			13C12-4-MoCB	3L	1.001	0.999-1.004
2,2'-DiCB	4			13C12-2,2'-DiCB	4L	1.001	0.999-1.004
4,4'-DiCB	15			13C12-4,4'-DiCB	15L	1.001	0.999-1.003
2,2',6-TriCB	19			13C12-2,2',6-TriCB	19L	1.001	0.999-1.003
3,4,4'-TriCB	37			13C12-3,4,4'-TriCB	37L	1.001	0.999-1.002
2,2',6,6'-TeCB	54			13C12-2,2',6,6'-TeCB	54L	1.001	0.999-1.002
3,3',4,4'-TeCB	77			13C12-3,3',4,4'-TeCB	77L	1.000	1.000-1.001
3,4,4',5-TeCB	81			13C12-3,4,4',5-TeCB	81L	1.000	1.000-1.001
2,2',4,6,6'-PeCB	104			13C12-2,2',4,6,6'-PeCB	104L	1.001	0.999-1.002
2,3,3',4,4'-PeCB	105			13C12-2,3,3',4,4'-PeCB	105L	1.000	1.000-1.001
2,3,4,4',5-PeCB	114			13C12-2,3,4,4',5-PeCB	114L	1.001	1.000-1.001
2,3',4,4',5-PeCB	118			13C12-2,3',4,4',5-PeCB	118L	1.000	1.000-1.001
2',3,4,4',5-PeCB	123			13C12-2',3,4,4',5-PeCB	123L	1.000	1.000-1.001
3,3',4,4',5-PeCB	126			13C12-3,3',4,4',5-PeCB	126L	1.000	1.000-1.001
2,2',4,4',6,6'-HxCB	155			13C12-2,2',4,4',6,6'-HxCB	155L	1.001	0.999-1.002
2,3,3',4,4',5-HxCB	156	156 + 157	C	13C12-2,3,3',4,4',5-HxCB and 13C12-2,3,3',4,4',5'-HxCB	156L/157L	1.000	0.998-1.003
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3',4,4',5,5'-HxCB	167			13C12-2,3',4,4',5,5'-HxCB	167L	1.000	1.000-1.001
3,3',4,4',5,5'-HxCB	169			13C12-3,3',4,4',5,5'-HxCB	169L	1.000	1.000-1.001
2,2',3,4',5,6,6'-HpCB	188			13C12-2,2',3,4',5,6,6'-HpCB	188L	1.001	1.000-1.001
2,3,3',4,4',5,5'-HpCB	189			13C12-2,3,3',4,4',5,5'-HpCB	189L	1.001	1.000-1.001
2,2',3,3',5,5',6,6'-OcCB	202			13C12-2,2',3,3',5,5',6,6'-OcCB	202L	1.000	1.000-1.001
2,3,3',4,4',5,5',6-OcCB	205			13C12-2,3,3',4,4',5,5',6-OcCB	205L	1.001	1.000-1.001
2,2',3,3',4,4',5,5',6-NoCB	206			13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	1.000	1.000-1.001
2,2',3,3',4,5,5',6,6'-NoCB	208			13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L	1.000	1.000-1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	1.001	1.000-1.001

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) Suffix "L" indicates labeled compound

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6B
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_330 S: 1
Instrument ID: HR GC/MS Analysis Date: 29-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 20:09:08

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RETENTION TIME REFERENCE	IUPAC NO. ¹	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			13C12-2,5-DiCB	9L	0.722	0.691-0.754
13C12-4-MoCB	3L			13C12-2,5-DiCB	9L	0.860	0.829-0.891
13C12-2,2'-DiCB	4L			13C12-2,5-DiCB	9L	0.875	0.843-0.906
13C12-4,4'-DiCB	15L			13C12-2,5-DiCB	9L	1.253	1.221-1.284
13C12-2,2',6-TriCB	19L			13C12-2,5-DiCB	9L	1.073	1.042-1.104
13C12-3,4,4'-TriCB	37L			13C12-2,2',5,5'-TeCB	52L	1.092	1.072-1.112
13C12-2,2',6,6'-TeCB	54L			13C12-2,2',5,5'-TeCB	52L	0.812	0.799-0.826
13C12-3,3',4,4'-TeCB	77L			13C12-2,2',5,5'-TeCB	52L	1.396	1.383-1.409
13C12-3,4,4',5-TeCB	81L			13C12-2,2',5,5'-TeCB	52L	1.372	1.359-1.386
13C12-2,2',4,6,6'-PeCB	104L			13C12-2,2',4,5,5'-PeCB	101L	0.809	0.798-0.819
13C12-2,3,3',4,4'-PeCB	105L			13C12-2,2',4,5,5'-PeCB	101L	1.201	1.190-1.211
13C12-2,3,4,4',5-PeCB	114L			13C12-2,2',4,5,5'-PeCB	101L	1.179	1.168-1.189
13C12-2,3',4,4',5-PeCB	118L			13C12-2,2',4,5,5'-PeCB	101L	1.162	1.151-1.172
13C12-2',3,4,4',5-PeCB	123L			13C12-2,2',4,5,5'-PeCB	101L	1.151	1.141-1.162
13C12-3,3',4,4',5-PeCB	126L			13C12-2,2',4,5,5'-PeCB	101L	1.301	1.291-1.311
13C12-2,2',4,4',6,6'-HxCB	155L			13C12-2,2',3,4,4',5'-HxCB	138L	0.785	0.777-0.794
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	13C12-2,2',3,4,4',5'-HxCB	138L	1.107	1.099-1.116
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L				
13C12-2,3',4,4',5,5'-HxCB	167L			13C12-2,2',3,4,4',5'-HxCB	138L	1.077	1.069-1.086
13C12-3,3',4,4',5,5'-HxCB	169L			13C12-2,2',3,4,4',5'-HxCB	138L	1.191	1.183-1.199
13C12-2,2',3,4',5,6,6'-HpCB	188L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.712	0.706-0.718
13C12-2,3,3',4,4',5,5'-HpCB	189L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.959	0.953-0.965
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.818	0.812-0.824
13C12-2,3,3',4,4',5,5',6-OcCB	205L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.009	1.000-1.019
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.044	1.034-1.053
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.949	0.943-0.956
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.075	1.065-1.084

CLEANUP STANDARD

13C12-2,4,4'-TriCB	28L			13C12-2,2',5,5'-TeCB	52L	0.925	0.911-0.938
13C12-2,3,3',5,5'-PeCB	111L			13C12-2,2',4,5,5'-PeCB	101L	1.087	1.076-1.097
13C12-2,2',3,3',5,5',6-HpCB	178L			13C12-2,2',3,4,4',5'-HxCB	138L	1.012	1.003-1.020

- (1) Suffix "L" indicates labeled compound
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL

CAL Data Filename: PB9C_330 S: 1
Analysis Date: 29-Oct-2009
Analysis Time: 20:09:08

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3-MoCB	2			1.06	M/M+2	3.11	2.66-3.60	0.989	0.985 - 0.993
2,3-DiCB	5			1.13	M/M+2	1.62	1.33-1.79	1.198	1.195 - 1.202
2,3'-DiCB	6			1.29	M/M+2	1.51	1.33-1.79	1.175	1.172 - 1.179
2,4-DiCB	7			1.26	M/M+2	1.51	1.33-1.79	1.158	1.154 - 1.161
2,4'-DiCB	8			1.41	M/M+2	1.47	1.33-1.79	1.206	1.203 - 1.210
2,5-DiCB	9			1.28	M/M+2	1.51	1.33-1.79	1.144	1.141 - 1.148
2,6-DiCB	10			1.36	M/M+2	1.52	1.33-1.79	1.014	1.011 - 1.018
3,3'-DiCB	11			1.12	M/M+2	1.53	1.33-1.79	0.971	0.968 - 0.973
3,4-DiCB	12	12 + 13	C	1.12	M/M+2	1.52	1.33-1.79	0.987	0.984 - 0.989
3,4'-DiCB	13	12 + 13	C12						
3,5-DiCB	14			1.17	M/M+2	1.54	1.33-1.79	0.926	0.923 - 0.928
2,2',3-TriCB	16			0.84	M/M+2	1.07	0.88-1.20	1.164	1.161 - 1.167
2,2',4-TriCB	17			0.98	M/M+2	1.04	0.88-1.20	1.136	1.133 - 1.139
2,2',5-TriCB	18	18 + 30	C	1.17	M/M+2	1.07	0.88-1.20	1.110	1.107 - 1.113
2,3,3'-TriCB	20	20 + 28	C	1.19	M/M+2	1.00	0.88-1.20	0.848	0.845 - 0.851
2,3,4-TriCB	21	21 + 33	C	1.32	M/M+2	1.02	0.88-1.20	0.855	0.852 - 0.858
2,3,4'-TriCB	22			1.09	M/M+2	1.01	0.88-1.20	0.872	0.870 - 0.874
2,3,5-TriCB	23			1.23	M/M+2	1.01	0.88-1.20	1.279	1.276 - 1.282
2,3,6-TriCB	24			1.35	M/M+2	1.06	0.88-1.20	1.158	1.155 - 1.161
2,3',4-TriCB	25			1.48	M/M+2	1.03	0.88-1.20	0.825	0.823 - 0.826
2,3',5-TriCB	26	26 + 29	C	1.24	M/M+2	1.03	0.88-1.20	1.299	1.294 - 1.304
2,3',6-TriCB	27			1.40	M/M+2	1.07	0.88-1.20	1.150	1.147 - 1.153
2,4,4'-TriCB	28	20 + 28	C20						
2,4,5-TriCB	29	26 + 29	C26						
2,4,6-TriCB	30	18 + 30	C18						
2,4',5-TriCB	31			1.32	M/M+2	1.02	0.88-1.20	0.836	0.834 - 0.838
2,4',6-TriCB	32			1.36	M/M+2	1.01	0.88-1.20	1.196	1.193 - 1.198
2',3,4-TriCB	33	21 + 33	C21						
2',3,5-TriCB	34			1.22	M/M+2	1.03	0.88-1.20	1.270	1.268 - 1.273
3,3',4-TriCB	35			0.95	M/M+2	1.00	0.88-1.20	0.985	0.983 - 0.987
3,3',5-TriCB	36			1.15	M/M+2	1.02	0.88-1.20	0.930	0.928 - 0.932
3,4,5-TriCB	38			1.16	M/M+2	1.02	0.88-1.20	0.967	0.965 - 0.969
3,4',5-TriCB	39			1.14	M/M+2	1.04	0.88-1.20	0.945	0.943 - 0.947
2,2',3,3'-TeCB	40	40 + 41 + 71	C	0.84	M/M+2	0.79	0.65-0.89	1.333	1.329 - 1.337
2,2',3,4-TeCB	41	40 + 41 + 71	C40						
2,2',3,4'-TeCB	42			0.83	M/M+2	0.78	0.65-0.89	1.309	1.306 - 1.311
2,2',3,5-TeCB	43			0.78	M/M+2	0.78	0.65-0.89	1.244	1.242 - 1.247
2,2',3,5'-TeCB	44	44 + 47 + 65	C	0.94	M/M+2	0.79	0.65-0.89	1.283	1.279 - 1.287
2,2',3,6-TeCB	45	45 + 51	C	0.91	M/M+2	0.79	0.65-0.89	1.145	1.141 - 1.150
2,2',3,6'-TeCB	46			0.80	M/M+2	0.79	0.65-0.89	1.160	1.158 - 1.163
2,2',4,4'-TeCB	47	44 + 47 + 65	C44						
2,2',4,5-TeCB	48			0.84	M/M+2	0.79	0.65-0.89	1.270	1.268 - 1.273
2,2',4,5'-TeCB	49	49 + 69	C	1.00	M/M+2	0.79	0.65-0.89	1.255	1.251 - 1.259
2,2',4,6-TeCB	50	50 + 53	C	0.93	M/M+2	0.79	0.65-0.89	1.110	1.106 - 1.114
2,2',4,6'-TeCB	51	45 + 51	C45						
2,2',5,5'-TeCB	52			0.90	M/M+2	0.79	0.65-0.89	1.231	1.228 - 1.233
2,2',5,6'-TeCB	53	50 + 53	C50						
2,3,3',4-TeCB	55			0.91	M/M+2	0.78	0.65-0.89	0.889	0.888 - 0.891
2,3,3',4'-TeCB	56			0.89	M/M+2	0.77	0.65-0.89	0.905	0.903 - 0.906



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,3,3',5-TeCB	57			0.99	M/M+2	0.76	0.65-0.89	0.843	0.842 - 0.845
2,3,3',5'-TeCB	58			0.98	M/M+2	0.77	0.65-0.89	0.850	0.849 - 0.852
2,3,3',6-TeCB	59	59 + 62 + 75	C	1.13	M/M+2	0.79	0.65-0.89	1.299	1.295 - 1.303
2,3,4,4'-TeCB	60			0.87	M/M+2	0.77	0.65-0.89	0.911	0.910 - 0.912
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C	0.99	M/M+2	0.78	0.65-0.89	0.874	0.871 - 0.876
2,3,4,6-TeCB	62	59 + 62 + 75	C59						
2,3,4',5-TeCB	63			0.98	M/M+2	0.77	0.65-0.89	0.864	0.862 - 0.865
2,3,4',6-TeCB	64			1.17	M/M+2	0.79	0.65-0.89	1.345	1.343 - 1.348
2,3,5,6-TeCB	65	44 + 47 + 65	C44						
2,3',4,4'-TeCB	66			0.97	M/M+2	0.78	0.65-0.89	0.884	0.882 - 0.885
2,3',4,5-TeCB	67			1.12	M/M+2	0.77	0.65-0.89	0.856	0.854 - 0.857
2,3',4,5'-TeCB	68			1.02	M/M+2	0.75	0.65-0.89	0.831	0.829 - 0.832
2,3',4,6-TeCB	69	49 + 69	C49						
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61						
2,3',4',6-TeCB	71	40 + 41 + 71	C40						
2,3',5,5'-TeCB	72			1.03	M/M+2	0.77	0.65-0.89	0.821	0.820 - 0.823
2,3',5',6-TeCB	73			1.12	M/M+2	0.80	0.65-0.89	1.238	1.236 - 1.241
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61						
2,4,4',6-TeCB	75	59 + 62 + 75	C59						
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61						
3,3',4,5-TeCB	78			0.86	M/M+2	0.78	0.65-0.89	0.986	0.985 - 0.988
3,3',4,5'-TeCB	79			1.09	M/M+2	0.79	0.65-0.89	0.970	0.968 - 0.971
3,3',5,5'-TeCB	80			0.99	M/M+2	0.78	0.65-0.89	0.922	0.921 - 0.924
2,2',3,3',4-PeCB	82			0.78	M+2/M+4	1.55	1.32-1.78	0.935	0.933 - 0.936
2,2',3,3',5-PeCB	83	83 + 99	C	0.84	M+2/M+4	1.60	1.32-1.78	0.884	0.881 - 0.887
2,2',3,3',6-PeCB	84			0.79	M+2/M+4	1.59	1.32-1.78	1.164	1.162 - 1.166
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	1.01	M+2/M+4	1.57	1.32-1.78	0.919	0.916 - 0.922
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	1.00	M+2/M+4	1.58	1.32-1.78	0.900	0.897 - 0.904
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3,4,6-PeCB	88	88 + 91	C	0.90	M+2/M+4	1.58	1.32-1.78	1.153	1.149 - 1.157
2,2',3,4,6'-PeCB	89			0.84	M+2/M+4	1.59	1.32-1.78	1.183	1.181 - 1.185
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	1.01	M+2/M+4	1.59	1.32-1.78	0.869	0.866 - 0.871
2,2',3,4',6-PeCB	91	88 + 91	C88						
2,2',3,5,5'-PeCB	92			0.84	M+2/M+4	1.56	1.32-1.78	0.853	0.851 - 0.854
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	0.94	M+2/M+4	1.58	1.32-1.78	1.129	1.118 - 1.140
2,2',3,5,6'-PeCB	94			0.84	M+2/M+4	1.59	1.32-1.78	1.102	1.100 - 1.104
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93						
2,2',3,6,6'-PeCB	96			1.22	M+2/M+4	1.62	1.32-1.78	1.017	1.014 - 1.020
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93						
2,2',4,4',5-PeCB	99	83 + 99	C83						
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93						
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90						
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93						
2,2',4,5',6-PeCB	103			1.01	M+2/M+4	1.58	1.32-1.78	1.093	1.091 - 1.095
2,3,3',4,5-PeCB	106			0.99	M+2/M+4	1.54	1.32-1.78	1.004	1.002 - 1.005
2,3,3',4',5-PeCB	107	107 + 124	C	0.93	M+2/M+4	1.55	1.32-1.78	0.990	0.988 - 0.992
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3,3',4,6-PeCB	109			0.90	M+2/M+4	1.46	1.32-1.78	0.996	0.995 - 0.998
2,3,3',4',6-PeCB	110	110 + 115	C	1.14	M+2/M+4	1.58	1.32-1.78	0.926	0.924 - 0.929
2,3,3',5,5'-PeCB	111			1.15	M+2/M+4	1.57	1.32-1.78	0.944	0.943 - 0.946
2,3,3',5,6-PeCB	112			1.19	M+2/M+4	1.58	1.32-1.78	0.889	0.888 - 0.890
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90						
2,3,4,4',6-PeCB	115	110 + 115	C110						
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85						
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85						
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3',4,5,5'-PeCB	120			1.23	M+2/M+4	1.59	1.32-1.78	0.958	0.956 - 0.959
2,3',4,5',6-PeCB	121			1.14	M+2/M+4	1.56	1.32-1.78	1.199	1.197 - 1.201
2',3,3',4,5-PeCB	122			0.84	M+2/M+4	1.50	1.32-1.78	1.010	1.009 - 1.012
2',3,4,5,5'-PeCB	124	107 + 124	C107						
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86						



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3,3',4,5,5'-PeCB	127			0.87	M+2/M+4	1.57	1.32-1.78	1.040	1.039 - 1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	0.87	M+2/M+4	1.25	1.05-1.43	0.959	0.957 - 0.961
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	0.90	M+2/M+4	1.26	1.05-1.43	0.930	0.927 - 0.933
2,2',3,3',4,5'-HxCB	130			0.71	M+2/M+4	1.27	1.05-1.43	0.913	0.912 - 0.914
2,2',3,3',4,6-HxCB	131			0.77	M+2/M+4	1.26	1.05-1.43	1.160	1.159 - 1.162
2,2',3,3',4,6'-HxCB	132			0.73	M+2/M+4	1.24	1.05-1.43	1.176	1.173 - 1.178
2,2',3,3',5,5'-HxCB	133			0.80	M+2/M+4	1.27	1.05-1.43	1.191	1.190 - 1.193
2,2',3,3',5,6-HxCB	134	134 + 143	C	0.77	M+2/M+4	1.25	1.05-1.43	1.143	1.140 - 1.145
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	0.86	M+2/M+4	1.26	1.05-1.43	1.107	1.101 - 1.113
2,2',3,3',6,6'-HxCB	136			1.13	M+2/M+4	1.27	1.05-1.43	1.026	1.024 - 1.027
2,2',3,4,4',5-HxCB	137			0.72	M+2/M+4	1.26	1.05-1.43	0.918	0.917 - 0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129						
2,2',3,4,4',6-HxCB	139	139 + 140	C	0.84	M+2/M+4	1.26	1.05-1.43	1.154	1.151 - 1.156
2,2',3,4,4',6'-HxCB	140	139 + 140	C139						
2,2',3,4,5,5'-HxCB	141			0.82	M+2/M+4	1.27	1.05-1.43	0.904	0.903 - 0.905
2,2',3,4,5,6-HxCB	142			0.74	M+2/M+4	1.26	1.05-1.43	1.166	1.164 - 1.167
2,2',3,4,5,6'-HxCB	143	134 + 143	C134						
2,2',3,4,5',6-HxCB	144			0.85	M+2/M+4	1.26	1.05-1.43	1.122	1.121 - 1.124
2,2',3,4,6,6'-HxCB	145			1.07	M+2/M+4	1.27	1.05-1.43	1.035	1.033 - 1.036
2,2',3,4',5,5'-HxCB	146			0.88	M+2/M+4	1.26	1.05-1.43	0.884	0.883 - 0.885
2,2',3,4',5,6-HxCB	147	147 + 149	C	0.88	M+2/M+4	1.26	1.05-1.43	1.134	1.131 - 1.136
2,2',3,4',5,6'-HxCB	148			0.81	M+2/M+4	1.28	1.05-1.43	1.084	1.082 - 1.085
2,2',3,4',5,6-HxCB	149	147 + 149	C147						
2,2',3,4',6,6'-HxCB	150			1.12	M+2/M+4	1.27	1.05-1.43	1.013	1.012 - 1.015
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135						
2,2',3,5,6,6'-HxCB	152			1.20	M+2/M+4	1.27	1.05-1.43	1.008	1.007 - 1.010
2,2',4,4',5,5'-HxCB	153	153 + 168	C	1.03	M+2/M+4	1.25	1.05-1.43	0.899	0.897 - 0.901
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135						
2,3,3',4,4',6-HxCB	158			1.15	M+2/M+4	1.27	1.05-1.43	0.938	0.937 - 0.939
2,3,3',4,5,5'-HxCB	159			1.05	M+2/M+4	1.28	1.05-1.43	0.982	0.981 - 0.983
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129						
2,3,3',4,5',6-HxCB	161			1.06	M+2/M+4	1.24	1.05-1.43	0.887	0.886 - 0.888
2,3,3',4',5,5'-HxCB	162			1.05	M+2/M+4	1.28	1.05-1.43	0.989	0.988 - 0.990
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129						
2,3,3',4',5',6-HxCB	164			1.07	M+2/M+4	1.27	1.05-1.43	0.922	0.920 - 0.923
2,3,3',5,5',6-HxCB	165			0.97	M+2/M+4	1.25	1.05-1.43	0.878	0.877 - 0.879
2,3,4,4',5,6-HxCB	166	128 + 166	C128						
2,3',4,4',5,6-HxCB	168	153 + 168	C153						
2,2',3,3',4,4',5-HpCB	170			0.81	M+2/M+4	1.06	0.89-1.21	0.937	0.936 - 0.938
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	0.75	M+2/M+4	1.05	0.89-1.21	1.163	1.161 - 1.165
2,2',3,3',4,5,5'-HpCB	172			0.74	M+2/M+4	1.03	0.89-1.21	0.897	0.896 - 0.898
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171						
2,2',3,3',4,5,6'-HpCB	174			0.86	M+2/M+4	1.05	0.89-1.21	1.134	1.133 - 1.135
2,2',3,3',4,5',6-HpCB	175			0.82	M+2/M+4	1.04	0.89-1.21	1.102	1.101 - 1.104
2,2',3,3',4,6,6'-HpCB	176			1.11	M+2/M+4	1.03	0.89-1.21	1.035	1.034 - 1.036
2,2',3,3',4',5,6-HpCB	177			0.83	M+2/M+4	1.06	0.89-1.21	1.146	1.145 - 1.148
2,2',3,3',5,5',6-HpCB	178			0.80	M+2/M+4	1.02	0.89-1.21	1.085	1.084 - 1.087
2,2',3,3',5,6,6'-HpCB	179			1.14	M+2/M+4	1.05	0.89-1.21	1.011	1.010 - 1.012
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	1.00	M+2/M+4	1.04	0.89-1.21	0.910	0.909 - 0.911
2,2',3,4,4',5,6-HpCB	181			0.77	M+2/M+4	1.05	0.89-1.21	1.157	1.155 - 1.158
2,2',3,4,4',5,6'-HpCB	182			0.83	M+2/M+4	1.07	0.89-1.21	1.115	1.114 - 1.117
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	0.81	M+2/M+4	1.07	0.89-1.21	1.128	1.127 - 1.129
2,2',3,4,4',6,6'-HpCB	184			1.11	M+2/M+4	1.03	0.89-1.21	1.025	1.023 - 1.026
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183						
2,2',3,4,5,6,6'-HpCB	186			0.99	M+2/M+4	1.06	0.89-1.21	1.047	1.046 - 1.049
2,2',3,4',5,5',6-HpCB	187			0.85	M+2/M+4	1.07	0.89-1.21	1.110	1.109 - 1.111
2,3,3',4,4',5,6-HpCB	190			1.00	M+2/M+4	1.04	0.89-1.21	0.948	0.947 - 0.949
2,3,3',4,4',5',6-HpCB	191			1.13	M+2/M+4	1.07	0.89-1.21	0.918	0.917 - 0.919
2,3,3',4,5,5',6-HpCB	192			0.88	M+2/M+4	1.04	0.89-1.21	0.903	0.902 - 0.904
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180						
2,2',3,3',4,4',5,5'-OcCB	194			0.84	M+2/M+4	0.88	0.76-1.02	0.991	0.990 - 0.992
2,2',3,3',4,4',5,6-OcCB	195			0.77	M+2/M+4	0.90	0.76-1.02	0.946	0.945 - 0.947
2,2',3,3',4,4',5,6'-OcCB	196			0.77	M+2/M+4	0.92	0.76-1.02	0.916	0.915 - 0.916



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,2',3,3',4,4',6,6'-O ₂ CB	197	197 + 200	C	1.03	M+2/M+4	0.91	0.76-1.02	1.046	1.043 - 1.048
2,2',3,3',4,5,5',6-O ₂ CB	198	198 + 199	C	0.75	M+2/M+4	0.91	0.76-1.02	1.114	1.112 - 1.116
2,2',3,3',4,5,5',6'-O ₂ CB	199	198 + 199	C198						
2,2',3,3',4,5,6,6'-O ₂ CB	200	197 + 200	C197						
2,2',3,3',4,5',6,6'-O ₂ CB	201			1.03	M+2/M+4	0.91	0.76-1.02	1.023	1.021 - 1.025
2,2',3,4,4',5,5',6-O ₂ CB	203			0.78	M+2/M+4	0.91	0.76-1.02	0.919	0.918 - 0.920
2,2',3,4,4',5,6,6'-O ₂ CB	204			1.01	M+2/M+4	0.91	0.76-1.02	1.038	1.037 - 1.040
2,2',3,3',4,4',5,6,6'-NoCB	207			1.16	M+2/M+4	0.79	0.65-0.89	1.020	1.019 - 1.021

- (1) Where applicable, custom lab flags have been used on this report.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist

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Report Filename: 1668_PCB1668_PB9C_330S1__Form346A_SJ1077664_GS34280.html; Workgroup: WG30036; Design ID: 1193]



PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL

CAL Data Filename: PB9C_330 S: 1
Analysis Date: 29-Oct-2009
Analysis Time: 20:09:08

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RRF	MZ's FORMING RATIO ³	ION ABUND. RATIO	RATIO QC LIMITS ⁴	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			1.02	M/M+2	3.24	2.66-3.60	0.722	0.707 - 0.738
13C12-4-MoCB	3L			0.93	M/M+2	3.18	2.66-3.60	0.860	0.844 - 0.876
13C12-2,2'-DiCB	4L			0.67	M/M+2	1.58	1.33-1.79	0.875	0.859 - 0.890
13C12-4,4'-DiCB	15L			0.83	M/M+2	1.56	1.33-1.79	1.253	1.237 - 1.268
13C12-2,2',6-TriCB	19L			0.49	M/M+2	1.06	0.88-1.20	1.073	1.057 - 1.089
13C12-3,4,4'-TriCB	37L			1.45	M/M+2	1.03	0.88-1.20	1.092	1.082 - 1.102
13C12-2,2',6,6'-TeCB	54L			1.49	M/M+2	0.81	0.65-0.89	0.812	0.806 - 0.819
13C12-3,3',4,4'-TeCB	77L			1.10	M/M+2	0.80	0.65-0.89	1.396	1.389 - 1.403
13C12-3,4,4',5-TeCB	81L			1.07	M/M+2	0.79	0.65-0.89	1.372	1.366 - 1.379
13C12-2,2',4,4',6,6'-PeCB	104L			1.23	M+2/M+4	1.59	1.32-1.78	0.809	0.803 - 0.814
13C12-2,3,3',4,4'-PeCB	105L			1.10	M+2/M+4	1.55	1.32-1.78	1.201	1.196 - 1.206
13C12-2,3,4,4',5-PeCB	114L			1.13	M+2/M+4	1.57	1.32-1.78	1.179	1.174 - 1.184
13C12-2,3',4,4',5-PeCB	118L			1.16	M+2/M+4	1.54	1.32-1.78	1.162	1.157 - 1.167
13C12-2',3,4,4',5-PeCB	123L			1.16	M+2/M+4	1.55	1.32-1.78	1.151	1.146 - 1.157
13C12-3,3',4,4',5-PeCB	126L			0.99	M+2/M+4	1.57	1.32-1.78	1.301	1.296 - 1.306
13C12-2,2',4,4',6,6'-HxCB	155L			1.44	M+2/M+4	1.27	1.05-1.43	0.785	0.781 - 0.790
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	1.24	M+2/M+4	1.27	1.05-1.43	1.107	1.103 - 1.112
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L						
13C12-2,3',4,4',5,5'-HxCB	167L			1.21	M+2/M+4	1.28	1.05-1.43	1.077	1.073 - 1.082
13C12-3,3',4,4',5,5'-HxCB	169L			1.19	M+2/M+4	1.29	1.05-1.43	1.191	1.187 - 1.195
13C12-2,2',3,3',4,4',5-HpCB	170L			1.07	M+2/M+4	1.06	0.89-1.21	0.898	0.894 - 0.902
13C12-2,2',3,4,4',5,5'-HpCB	180L			1.21	M+2/M+4	1.05	0.89-1.21	0.873	0.869 - 0.877
13C12-2,2',3,4',5,6,6'-HpCB	188L			1.68	M+2/M+4	1.08	0.89-1.21	0.712	0.708 - 0.716
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.25	M+2/M+4	1.05	0.89-1.21	0.959	0.954 - 0.964
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			1.30	M+2/M+4	0.94	0.76-1.02	0.818	0.814 - 0.822
13C12-2,3,3',4,4',5,5',6-OcCB	205L			1.22	M+2/M+4	0.95	0.76-1.02	1.009	1.004 - 1.014
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.82	M+2/M+4	0.81	0.65-0.89	1.044	1.039 - 1.049
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			1.20	M+2/M+4	0.83	0.65-0.89	0.949	0.944 - 0.954

- (1) Suffix "L" indicates labeled compound
- (2) Where applicable, custom lab flags have been used on this report.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4A
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_358 S: 1
Instrument ID: HR GC/MS Analysis Date: 25-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 08:22:54

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
2-MoCB	1			M/M+2	3.11	2.66-3.60	23.1	17.5 - 32.5
4-MoCB	3			M/M+2	3.09	2.66-3.60	24.7	17.5 - 32.5
2,2'-DiCB	4			M/M+2	1.56	1.33-1.79	26.2	17.5 - 32.5
4,4'-DiCB	15			M/M+2	1.53	1.33-1.79	28.2	21.4 - 39.8
2,2',6-TriCB	19			M/M+2	1.03	0.88-1.20	24.6	17.5 - 32.5
3,4,4'-TriCB	37			M/M+2	1.01	0.88-1.20	25.3	17.5 - 32.5
2,2',6,6'-TeCB	54			M/M+2	0.78	0.65-0.89	48.9	35.0 - 65.0
3,3',4,4'-TeCB	77			M/M+2	0.80	0.65-0.89	47.5	35.0 - 65.0
3,4,4',5-TeCB	81			M/M+2	0.78	0.65-0.89	54.5	35.0 - 65.0
2,2',4,6,6'-PeCB	104			M+2/M+4	1.56	1.32-1.78	51.3	35.0 - 65.0
2,3,3',4,4'-PeCB	105			M+2/M+4	1.56	1.32-1.78	52.1	35.0 - 65.0
2,3,4,4',5-PeCB	114			M+2/M+4	1.61	1.32-1.78	52.9	35.0 - 65.0
2,3',4,4',5-PeCB	118			M+2/M+4	1.61	1.32-1.78	51.2	35.0 - 65.0
2',3,4,4',5-PeCB	123			M+2/M+4	1.57	1.32-1.78	55.5	35.0 - 65.0
3,3',4,4',5-PeCB	126			M+2/M+4	1.70	1.32-1.78	53.6	39.0 - 72.4
2,2',4,4',6,6'-HxCB	155			M+2/M+4	1.26	1.05-1.43	52.1	35.0 - 65.0
2,3,3',4,4',5-HxCB	156	156 + 157	C	M+2/M+4	1.26	1.05-1.43	101	70.0 - 130
2,3,3',4,4',5'-HxCB	157	156 + 157	C156					
2,3',4,4',5,5'-HxCB	167			M+2/M+4	1.25	1.05-1.43	56.2	35.0 - 65.0
3,3',4,4',5,5'-HxCB	169			M+2/M+4	1.29	1.05-1.43	57.8	35.0 - 65.0
2,2',3,4',5,6,6'-HpCB	188			M+2/M+4	1.05	0.89-1.21	48.6	35.0 - 65.0
2,3,3',4,4',5,5'-HpCB	189			M+2/M+4	1.01	0.89-1.21	50.2	35.0 - 65.0
2,2',3,3',5,5',6,6'-OcCB	202			M+2/M+4	0.90	0.76-1.02	81.0	58.9 - 110
2,3,3',4,4',5,5',6-OcCB	205			M+2/M+4	0.90	0.76-1.02	75.3	52.5 - 97.5
2,2',3,3',4,4',5,5',6-NoCB	206			M+2/M+4	0.78	0.65-0.89	69.5	52.5 - 97.5
2,2',3,3',4,5,5',6,6'-NoCB	208			M+2/M+4	0.79	0.65-0.89	73.4	58.7 - 109
2,2',3,3',4,4',5,5',6,6'-DeCB	209			M+2/M+4	0.70	0.59-0.79	77.0	52.5 - 97.5

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) See Table 8, Method 1668A, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4B
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_358 S: 1
Instrument ID: HR GC/MS Analysis Date: 25-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 08:22:54

LABELLED COMPOUND	IUPAC NO. 1	CO-ELUTIONS	LAB FLAG 2	MZ's FORMING RATIO 3	ION ABUND. RATIO	QC LIMITS 4	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
13C12-2-MoCB	1L			M/M+2	3.22	2.66-3.60	106	50.0 - 150
13C12-4-MoCB	3L			M/M+2	3.11	2.66-3.60	103	50.0 - 150
13C12-2,2'-DiCB	4L			M/M+2	1.58	1.33-1.79	107	50.0 - 150
13C12-4,4'-DiCB	15L			M/M+2	1.57	1.33-1.79	86.4	50.0 - 150
13C12-2,2',6-TriCB	19L			M/M+2	1.05	0.88-1.20	119	50.0 - 150
13C12-3,4,4'-TriCB	37L			M/M+2	1.04	0.88-1.20	79.0	50.0 - 150
13C12-2,2',6,6'-TeCB	54L			M/M+2	0.79	0.65-0.89	101	50.0 - 150
13C12-3,3',4,4'-TeCB	77L			M/M+2	0.78	0.65-0.89	83.8	50.0 - 150
13C12-3,4,4',5'-TeCB	81L			M/M+2	0.78	0.65-0.89	82.4	50.0 - 150
13C12-2,2',4,6,6'-PeCB	104L			M+2/M+4	1.59	1.32-1.78	96.7	50.0 - 150
13C12-2,3,3',4,4'-PeCB	105L			M+2/M+4	1.59	1.32-1.78	83.2	50.0 - 150
13C12-2,3,4,4',5'-PeCB	114L			M+2/M+4	1.58	1.32-1.78	81.8	50.0 - 150
13C12-2,3',4,4',5'-PeCB	118L			M+2/M+4	1.58	1.32-1.78	85.5	50.0 - 150
13C12-2',3,4,4',5'-PeCB	123L			M+2/M+4	1.59	1.32-1.78	87.3	50.0 - 150
13C12-3,3',4,4',5'-PeCB	126L			M+2/M+4	1.57	1.32-1.78	79.6	50.0 - 150
13C12-2,2',4,4',6,6'-HxCB	155L			M+2/M+4	1.28	1.05-1.43	104	50.0 - 150
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	M+2/M+4	1.27	1.05-1.43	196	100 - 300
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			M+2/M+4	1.30	1.05-1.43	100	50.0 - 150
13C12-3,3',4,4',5,5'-HxCB	169L			M+2/M+4	1.28	1.05-1.43	95.6	50.0 - 150
13C12-2,2',3,4',5,6,6'-HpCB	188L			M+2/M+4	1.06	0.89-1.21	120	50.0 - 150
13C12-2,3,3',4,4',5,5'-HpCB	189L			M+2/M+4	1.06	0.89-1.21	92.7	50.0 - 150
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			M+2/M+4	0.92	0.76-1.02	117	50.0 - 150
13C12-2,3,3',4,4',5,5',6-OxCB	205L			M+2/M+4	0.93	0.76-1.02	94.7	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			M+2/M+4	0.80	0.65-0.89	103	50.0 - 150
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			M+2/M+4	0.82	0.65-0.89	112	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			M+4/M+6	1.20	0.99-1.33	110	50.0 - 150

CLEAN-UP STANDARD

13C12-2,4,4'-TriCB	28L			M/M+2	1.04	0.88-1.20	87.6	60.0 - 130
13C12-2,3,3',5,5'-PeCB	111L			M+2/M+4	1.58	1.32-1.78	99.9	60.0 - 130
13C12-2,2',3,3',5,5',6-HpCB	178L			M+2/M+4	1.04	0.89-1.21	109	60.0 - 130

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6A
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_358 S: 1
Instrument ID: HR GC/MS Analysis Date: 25-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 08:22:54

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RETENTION TIME REFERENCE	IUPAC NO. ²	RRT	RRT QC LIMITS
2-MoCB	1			13C12-2-MoCB	1L	1.001	0.999-1.004
4-MoCB	3			13C12-4-MoCB	3L	1.001	0.999-1.004
2,2'-DiCB	4			13C12-2,2'-DiCB	4L	1.001	0.999-1.004
4,4'-DiCB	15			13C12-4,4'-DiCB	15L	1.000	0.999-1.003
2,2',6-TriCB	19			13C12-2,2',6-TriCB	19L	1.001	0.999-1.003
3,4,4'-TriCB	37			13C12-3,4,4'-TriCB	37L	1.001	0.999-1.002
2,2',6,6'-TeCB	54			13C12-2,2',6,6'-TeCB	54L	1.001	0.999-1.002
3,3',4,4'-TeCB	77			13C12-3,3',4,4'-TeCB	77L	1.000	1.000-1.001
3,4,4',5-TeCB	81			13C12-3,4,4',5-TeCB	81L	1.000	1.000-1.001
2,2',4,6,6'-PeCB	104			13C12-2,2',4,6,6'-PeCB	104L	1.001	0.999-1.002
2,3,3',4,4'-PeCB	105			13C12-2,3,3',4,4'-PeCB	105L	1.000	1.000-1.001
2,3,4,4',5-PeCB	114			13C12-2,3,4,4',5-PeCB	114L	1.000	1.000-1.001
2,3',4,4',5-PeCB	118			13C12-2,3',4,4',5-PeCB	118L	1.001	1.000-1.001
2',3,4,4',5-PeCB	123			13C12-2',3,4,4',5-PeCB	123L	1.000	1.000-1.001
3,3',4,4',5-PeCB	126			13C12-3,3',4,4',5-PeCB	126L	1.000	1.000-1.001
2,2',4,4',6,6'-HxCB	155			13C12-2,2',4,4',6,6'-HxCB	155L	1.001	0.999-1.002
2,3,3',4,4',5-HxCB	156	156 + 157	C	13C12-2,3,3',4,4',5-HxCB and 13C12-2,3,3',4,4',5'-HxCB	156L/157L	1.000	0.998-1.003
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3',4,4',5,5'-HxCB	167			13C12-2,3',4,4',5,5'-HxCB	167L	1.000	1.000-1.001
3,3',4,4',5,5'-HxCB	169			13C12-3,3',4,4',5,5'-HxCB	169L	1.000	1.000-1.001
2,2',3,4',5,6,6'-HpCB	188			13C12-2,2',3,4',5,6,6'-HpCB	188L	1.001	1.000-1.001
2,3,3',4,4',5,5'-HpCB	189			13C12-2,3,3',4,4',5,5'-HpCB	189L	1.001	1.000-1.001
2,2',3,3',5,5',6,6'-OcCB	202			13C12-2,2',3,3',5,5',6,6'-OcCB	202L	1.000	1.000-1.001
2,3,3',4,4',5,5',6-OcCB	205			13C12-2,3,3',4,4',5,5',6-OcCB	205L	1.000	1.000-1.001
2,2',3,3',4,4',5,5',6-NoCB	206			13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	1.000	1.000-1.001
2,2',3,3',4,5,5',6,6'-NoCB	208			13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L	1.001	1.000-1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	1.000	1.000-1.001

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) Suffix "L" indicates labeled compound

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6B
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_358 S: 1
Instrument ID: HR GC/MS Analysis Date: 25-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 08:22:54

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RETENTION TIME REFERENCE	IUPAC NO. ¹	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			13C12-2,5-DiCB	9L	0.722	0.691-0.753
13C12-4-MoCB	3L			13C12-2,5-DiCB	9L	0.860	0.829-0.891
13C12-2,2'-DiCB	4L			13C12-2,5-DiCB	9L	0.875	0.843-0.906
13C12-4,4'-DiCB	15L			13C12-2,5-DiCB	9L	1.253	1.222-1.284
13C12-2,2',6-TriCB	19L			13C12-2,5-DiCB	9L	1.072	1.041-1.103
13C12-3,4,4'-TriCB	37L			13C12-2,2',5,5'-TeCB	52L	1.092	1.072-1.112
13C12-2,2',6,6'-TeCB	54L			13C12-2,2',5,5'-TeCB	52L	0.812	0.799-0.826
13C12-3,3',4,4'-TeCB	77L			13C12-2,2',5,5'-TeCB	52L	1.396	1.382-1.409
13C12-3,4,4',5-TeCB	81L			13C12-2,2',5,5'-TeCB	52L	1.372	1.359-1.386
13C12-2,2',4,6,6'-PeCB	104L			13C12-2,2',4,5,5'-PeCB	101L	0.809	0.798-0.819
13C12-2,3,3',4,4'-PeCB	105L			13C12-2,2',4,5,5'-PeCB	101L	1.201	1.191-1.211
13C12-2,3,4,4',5-PeCB	114L			13C12-2,2',4,5,5'-PeCB	101L	1.180	1.169-1.190
13C12-2,3',4,4',5-PeCB	118L			13C12-2,2',4,5,5'-PeCB	101L	1.162	1.152-1.172
13C12-2',3,4,4',5-PeCB	123L			13C12-2,2',4,5,5'-PeCB	101L	1.152	1.141-1.162
13C12-3,3',4,4',5-PeCB	126L			13C12-2,2',4,5,5'-PeCB	101L	1.302	1.291-1.312
13C12-2,2',4,4',6,6'-HxCB	155L			13C12-2,2',3,4,4',5'-HxCB	138L	0.785	0.777-0.793
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	13C12-2,2',3,4,4',5'-HxCB	138L	1.108	1.099-1.116
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L				
13C12-2,3',4,4',5,5'-HxCB	167L			13C12-2,2',3,4,4',5'-HxCB	138L	1.078	1.069-1.086
13C12-3,3',4,4',5,5'-HxCB	169L			13C12-2,2',3,4,4',5'-HxCB	138L	1.191	1.183-1.200
13C12-2,2',3,4',5,6,6'-HpCB	188L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.712	0.705-0.718
13C12-2,3,3',4,4',5,5'-HpCB	189L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.959	0.952-0.965
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.818	0.811-0.824
13C12-2,3,3',4,4',5,5',6-OcCB	205L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.009	1.000-1.019
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.043	1.034-1.053
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.949	0.943-0.955
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.075	1.065-1.084

CLEANUP STANDARD

13C12-2,4,4'-TriCB	28L			13C12-2,2',5,5'-TeCB	52L	0.924	0.911-0.938
13C12-2,3,3',5,5'-PeCB	111L			13C12-2,2',4,5,5'-PeCB	101L	1.087	1.077-1.097
13C12-2,2',3,3',5,5',6-HpCB	178L			13C12-2,2',3,4,4',5'-HxCB	138L	1.012	1.003-1.020

(1) Suffix "L" indicates labeled compound

(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

CAL Data Filename: PB9C_358 S: 1

Instrument ID: HR GC/MS

Analysis Date: 25-Nov-2009

GC Column ID: SPB OCTYL

Analysis Time: 08:22:54

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3-MoCB	2			1.03	M/M+2	3.16	2.66-3.60	0.988	0.984 - 0.991
2,3-DiCB	5			1.09	M/M+2	1.56	1.33-1.79	1.197	1.194 - 1.201
2,3'-DiCB	6			1.25	M/M+2	1.57	1.33-1.79	1.176	1.172 - 1.179
2,4-DiCB	7			1.25	M/M+2	1.57	1.33-1.79	1.157	1.153 - 1.160
2,4'-DiCB	8			1.36	M/M+2	1.56	1.33-1.79	1.207	1.203 - 1.210
2,5-DiCB	9			1.27	M/M+2	1.55	1.33-1.79	1.145	1.141 - 1.148
2,6-DiCB	10			1.43	M/M+2	1.57	1.33-1.79	1.014	1.011 - 1.018
3,3'-DiCB	11			1.13	M/M+2	1.55	1.33-1.79	0.969	0.967 - 0.972
3,4-DiCB	12	12 + 13	C	1.13	M/M+2	1.55	1.33-1.79	0.985	0.982 - 0.987
3,4'-DiCB	13	12 + 13	C12						
3,5-DiCB	14			1.16	M/M+2	1.57	1.33-1.79	0.925	0.922 - 0.927
2,2',3-TriCB	16			0.79	M/M+2	1.04	0.88-1.20	1.165	1.162 - 1.168
2,2',4-TriCB	17			0.92	M/M+2	1.05	0.88-1.20	1.136	1.134 - 1.139
2,2',5-TriCB	18	18 + 30	C	1.09	M/M+2	1.06	0.88-1.20	1.111	1.108 - 1.114
2,3,3'-TriCB	20	20 + 28	C	1.27	M/M+2	1.03	0.88-1.20	0.848	0.845 - 0.851
2,3,4-TriCB	21	21 + 33	C	1.34	M/M+2	1.02	0.88-1.20	0.856	0.853 - 0.859
2,3,4'-TriCB	22			1.15	M/M+2	1.01	0.88-1.20	0.872	0.870 - 0.874
2,3,5-TriCB	23			1.23	M/M+2	1.03	0.88-1.20	1.280	1.277 - 1.283
2,3,6-TriCB	24			1.24	M/M+2	1.05	0.88-1.20	1.158	1.155 - 1.161
2,3',4-TriCB	25			1.44	M/M+2	1.00	0.88-1.20	0.825	0.823 - 0.827
2,3',5-TriCB	26	26 + 29	C	1.26	M/M+2	1.01	0.88-1.20	1.299	1.294 - 1.304
2,3',6-TriCB	27			1.29	M/M+2	1.06	0.88-1.20	1.150	1.147 - 1.153
2,4,4'-TriCB	28	20 + 28	C20						
2,4,5-TriCB	29	26 + 29	C26						
2,4,6-TriCB	30	18 + 30	C18						
2,4',5-TriCB	31			1.35	M/M+2	1.01	0.88-1.20	0.836	0.835 - 0.838
2,4',6-TriCB	32			1.33	M/M+2	1.04	0.88-1.20	1.196	1.193 - 1.199
2',3,4-TriCB	33	21 + 33	C21						
2',3,5-TriCB	34			1.19	M/M+2	1.02	0.88-1.20	1.271	1.268 - 1.274
3,3',4-TriCB	35			1.09	M/M+2	1.01	0.88-1.20	0.985	0.983 - 0.987
3,3',5-TriCB	36			1.23	M/M+2	1.03	0.88-1.20	0.931	0.929 - 0.933
3,4,5-TriCB	38			1.25	M/M+2	1.02	0.88-1.20	0.967	0.965 - 0.969
3,4',5-TriCB	39			1.21	M/M+2	1.01	0.88-1.20	0.945	0.944 - 0.947
2,2',3,3'-TeCB	40	40 + 41 + 71	C	0.88	M/M+2	0.79	0.65-0.89	1.333	1.329 - 1.337
2,2',3,4-TeCB	41	40 + 41 + 71	C40						
2,2',3,4'-TeCB	42			0.86	M/M+2	0.79	0.65-0.89	1.310	1.308 - 1.313
2,2',3,5-TeCB	43			0.74	M/M+2	0.79	0.65-0.89	1.244	1.242 - 1.247
2,2',3,5'-TeCB	44	44 + 47 + 65	C	0.97	M/M+2	0.78	0.65-0.89	1.284	1.280 - 1.288
2,2',3,6-TeCB	45	45 + 51	C	0.91	M/M+2	0.79	0.65-0.89	1.146	1.142 - 1.150
2,2',3,6'-TeCB	46			0.80	M/M+2	0.78	0.65-0.89	1.160	1.158 - 1.163
2,2',4,4'-TeCB	47	44 + 47 + 65	C44						
2,2',4,5-TeCB	48			0.88	M/M+2	0.79	0.65-0.89	1.271	1.268 - 1.273
2,2',4,5'-TeCB	49	49 + 69	C	1.04	M/M+2	0.79	0.65-0.89	1.254	1.250 - 1.258
2,2',4,6-TeCB	50	50 + 53	C	0.93	M/M+2	0.78	0.65-0.89	1.110	1.106 - 1.114
2,2',4,6'-TeCB	51	45 + 51	C45						
2,2',5,5'-TeCB	52			0.94	M/M+2	0.77	0.65-0.89	1.232	1.230 - 1.235
2,2',5,6'-TeCB	53	50 + 53	C50						
2,3,3',4-TeCB	55			1.01	M/M+2	0.80	0.65-0.89	0.889	0.888 - 0.891
2,3,3',4'-TeCB	56			1.03	M/M+2	0.79	0.65-0.89	0.905	0.903 - 0.906



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,3,3',5-TeCB	57			1.11	M/M+2	0.80	0.65-0.89	0.843	0.842 - 0.845
2,3,3',5'-TeCB	58			1.10	M/M+2	0.79	0.65-0.89	0.850	0.849 - 0.852
2,3,3',6-TeCB	59	59 + 62 + 75	C	1.15	M/M+2	0.78	0.65-0.89	1.299	1.295 - 1.303
2,3,4,4'-TeCB	60			0.99	M/M+2	0.77	0.65-0.89	0.911	0.909 - 0.912
2,3,4,5-TeCB	61	61 + 70 + 74 + 76		1.10	M/M+2	0.78	0.65-0.89	0.874	0.871 - 0.877
2,3,4,6-TeCB	62	59 + 62 + 75	C59						
2,3,4',5-TeCB	63			1.13	M/M+2	0.79	0.65-0.89	0.864	0.862 - 0.865
2,3,4',6-TeCB	64			1.21	M/M+2	0.79	0.65-0.89	1.347	1.344 - 1.349
2,3,5,6-TeCB	65	44 + 47 + 65	C44						
2,3',4,4'-TeCB	66			1.08	M/M+2	0.78	0.65-0.89	0.884	0.882 - 0.885
2,3',4,5-TeCB	67			1.29	M/M+2	0.78	0.65-0.89	0.856	0.854 - 0.857
2,3',4,5'-TeCB	68			1.11	M/M+2	0.78	0.65-0.89	0.830	0.829 - 0.832
2,3',4,6-TeCB	69	49 + 69	C49						
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61						
2,3',4',6-TeCB	71	40 + 41 + 71	C40						
2,3',5,5'-TeCB	72			1.14	M/M+2	0.77	0.65-0.89	0.822	0.821 - 0.824
2,3',5',6-TeCB	73			1.19	M/M+2	0.79	0.65-0.89	1.239	1.236 - 1.241
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61						
2,4,4',6-TeCB	75	59 + 62 + 75	C59						
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61						
3,3',4,5-TeCB	78			0.97	M/M+2	0.78	0.65-0.89	0.987	0.985 - 0.988
3,3',4,5'-TeCB	79			1.23	M/M+2	0.78	0.65-0.89	0.970	0.968 - 0.971
3,3',5,5'-TeCB	80			1.12	M/M+2	0.81	0.65-0.89	0.923	0.922 - 0.925
2,2',3,3',4-PeCB	82			0.78	M+2/M+4	1.57	1.32-1.78	0.934	0.933 - 0.936
2,2',3,3',5-PeCB	83	83 + 99	C	0.83	M+2/M+4	1.60	1.32-1.78	0.884	0.881 - 0.886
2,2',3,3',6-PeCB	84			0.79	M+2/M+4	1.62	1.32-1.78	1.164	1.162 - 1.166
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	1.00	M+2/M+4	1.57	1.32-1.78	0.919	0.917 - 0.922
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	0.99	M+2/M+4	1.58	1.32-1.78	0.900	0.897 - 0.904
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3,4,6-PeCB	88	88 + 91	C	0.88	M+2/M+4	1.61	1.32-1.78	1.153	1.149 - 1.156
2,2',3,4,6'-PeCB	89			0.83	M+2/M+4	1.58	1.32-1.78	1.184	1.182 - 1.185
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	0.98	M+2/M+4	1.57	1.32-1.78	0.868	0.866 - 0.871
2,2',3,4',6-PeCB	91	88 + 91	C88						
2,2',3,5,5'-PeCB	92			0.85	M+2/M+4	1.57	1.32-1.78	0.853	0.851 - 0.854
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	0.92	M+2/M+4	1.57	1.32-1.78	1.130	1.119 - 1.141
2,2',3,5,6'-PeCB	94			0.82	M+2/M+4	1.59	1.32-1.78	1.102	1.100 - 1.104
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93						
2,2',3,6,6'-PeCB	96			1.13	M+2/M+4	1.59	1.32-1.78	1.017	1.014 - 1.020
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93						
2,2',4,4',5-PeCB	99	83 + 99	C83						
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93						
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90						
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93						
2,2',4,5',6-PeCB	103			0.99	M+2/M+4	1.57	1.32-1.78	1.093	1.091 - 1.095
2,3,3',4,5-PeCB	106			1.02	M+2/M+4	1.60	1.32-1.78	1.004	1.003 - 1.005
2,3,3',4',5-PeCB	107	107 + 124	C	0.99	M+2/M+4	1.60	1.32-1.78	0.991	0.988 - 0.993
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3,3',4,6-PeCB	109			1.05	M+2/M+4	1.54	1.32-1.78	0.997	0.995 - 0.998
2,3,3',4',6-PeCB	110	110 + 115	C	1.12	M+2/M+4	1.56	1.32-1.78	0.926	0.924 - 0.929
2,3,3',5,5'-PeCB	111			1.11	M+2/M+4	1.56	1.32-1.78	0.944	0.943 - 0.946
2,3,3',5,6-PeCB	112			1.18	M+2/M+4	1.58	1.32-1.78	0.889	0.888 - 0.891
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90						
2,3,4,4',6-PeCB	115	110 + 115	C110						
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85						
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85						
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3',4,5,5'-PeCB	120			1.16	M+2/M+4	1.54	1.32-1.78	0.957	0.956 - 0.959
2,3',4,5',6-PeCB	121			1.11	M+2/M+4	1.57	1.32-1.78	1.198	1.196 - 1.200
2',3,3',4,5-PeCB	122			0.91	M+2/M+4	1.60	1.32-1.78	1.011	1.009 - 1.012
2',3,4,5,5'-PeCB	124	107 + 124	C107						
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86						



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3,3',4,5,5'-PeCB	127			0.89	M+2/M+4	1.68	1.32-1.78	1.040	1.039 - 1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	0.94	M+2/M+4	1.24	1.05-1.43	0.959	0.957 - 0.961
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	0.95	M+2/M+4	1.26	1.05-1.43	0.930	0.928 - 0.933
2,2',3,3',4,5'-HxCB	130			0.78	M+2/M+4	1.24	1.05-1.43	0.914	0.912 - 0.915
2,2',3,3',4,6-HxCB	131			0.84	M+2/M+4	1.24	1.05-1.43	1.161	1.159 - 1.162
2,2',3,3',4,6'-HxCB	132			0.81	M+2/M+4	1.26	1.05-1.43	1.176	1.173 - 1.179
2,2',3,3',5,5'-HxCB	133			0.88	M+2/M+4	1.25	1.05-1.43	1.192	1.190 - 1.193
2,2',3,3',5,6-HxCB	134	134 + 143	C	0.82	M+2/M+4	1.28	1.05-1.43	1.143	1.141 - 1.146
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	0.94	M+2/M+4	1.27	1.05-1.43	1.108	1.102 - 1.113
2,2',3,3',6,6'-HxCB	136			1.23	M+2/M+4	1.28	1.05-1.43	1.026	1.024 - 1.027
2,2',3,4,4',5-HxCB	137			0.76	M+2/M+4	1.24	1.05-1.43	0.918	0.917 - 0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129						
2,2',3,4,4',6-HxCB	139	139 + 140	C	0.91	M+2/M+4	1.26	1.05-1.43	1.154	1.151 - 1.157
2,2',3,4,4',6'-HxCB	140	139 + 140	C139						
2,2',3,4,5,5'-HxCB	141			0.91	M+2/M+4	1.27	1.05-1.43	0.904	0.902 - 0.905
2,2',3,4,5,6-HxCB	142			0.85	M+2/M+4	1.23	1.05-1.43	1.166	1.164 - 1.168
2,2',3,4,5,6'-HxCB	143	134 + 143	C134						
2,2',3,4,5',6-HxCB	144			0.91	M+2/M+4	1.28	1.05-1.43	1.122	1.121 - 1.124
2,2',3,4,6,6'-HxCB	145			1.16	M+2/M+4	1.31	1.05-1.43	1.035	1.034 - 1.037
2,2',3,4',5,5'-HxCB	146			1.02	M+2/M+4	1.24	1.05-1.43	0.884	0.883 - 0.885
2,2',3,4',5,6-HxCB	147	147 + 149	C	0.95	M+2/M+4	1.25	1.05-1.43	1.134	1.132 - 1.137
2,2',3,4',5,6'-HxCB	148			0.89	M+2/M+4	1.26	1.05-1.43	1.084	1.082 - 1.086
2,2',3,4',5,6-HxCB	149	147 + 149	C147						
2,2',3,4',6,6'-HxCB	150			1.23	M+2/M+4	1.27	1.05-1.43	1.013	1.012 - 1.015
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135						
2,2',3,5,6,6'-HxCB	152			1.26	M+2/M+4	1.27	1.05-1.43	1.008	1.007 - 1.010
2,2',4,4',5,5'-HxCB	153	153 + 168	C	1.10	M+2/M+4	1.28	1.05-1.43	0.899	0.897 - 0.900
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135						
2,3,3',4,4',6-HxCB	158			1.20	M+2/M+4	1.25	1.05-1.43	0.938	0.937 - 0.939
2,3,3',4,5,5'-HxCB	159			1.06	M+2/M+4	1.25	1.05-1.43	0.982	0.981 - 0.983
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129						
2,3,3',4,5',6-HxCB	161			1.15	M+2/M+4	1.26	1.05-1.43	0.887	0.886 - 0.888
2,3,3',4',5,5'-HxCB	162			1.03	M+2/M+4	1.28	1.05-1.43	0.989	0.988 - 0.990
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129						
2,3,3',4',5',6-HxCB	164			1.15	M+2/M+4	1.25	1.05-1.43	0.922	0.920 - 0.923
2,3,3',5,5',6-HxCB	165			1.01	M+2/M+4	1.25	1.05-1.43	0.878	0.877 - 0.879
2,3,4,4',5,6-HxCB	166	128 + 166	C128						
2,3',4,4',5,6-HxCB	168	153 + 168	C153						
2,2',3,3',4,4',5-HpCB	170			0.72	M+2/M+4	1.04	0.89-1.21	0.936	0.935 - 0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	0.76	M+2/M+4	1.02	0.89-1.21	1.163	1.161 - 1.165
2,2',3,3',4,5,5'-HpCB	172			0.75	M+2/M+4	1.06	0.89-1.21	0.897	0.896 - 0.898
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171						
2,2',3,3',4,5,6'-HpCB	174			0.83	M+2/M+4	1.06	0.89-1.21	1.134	1.133 - 1.136
2,2',3,3',4,5',6-HpCB	175			0.84	M+2/M+4	1.06	0.89-1.21	1.103	1.102 - 1.104
2,2',3,3',4,6,6'-HpCB	176			1.14	M+2/M+4	1.07	0.89-1.21	1.035	1.034 - 1.037
2,2',3,3',4',5,6-HpCB	177			0.84	M+2/M+4	1.07	0.89-1.21	1.147	1.146 - 1.148
2,2',3,3',5,5',6-HpCB	178			0.86	M+2/M+4	1.05	0.89-1.21	1.085	1.084 - 1.087
2,2',3,3',5,6,6'-HpCB	179			1.18	M+2/M+4	1.04	0.89-1.21	1.011	1.010 - 1.012
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	0.94	M+2/M+4	1.05	0.89-1.21	0.909	0.908 - 0.910
2,2',3,4,4',5,6-HpCB	181			0.81	M+2/M+4	1.05	0.89-1.21	1.157	1.156 - 1.158
2,2',3,4,4',5,6'-HpCB	182			0.89	M+2/M+4	1.05	0.89-1.21	1.115	1.114 - 1.117
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	0.86	M+2/M+4	1.05	0.89-1.21	1.128	1.127 - 1.130
2,2',3,4,4',6,6'-HpCB	184			1.20	M+2/M+4	1.05	0.89-1.21	1.024	1.023 - 1.026
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183						
2,2',3,4,5,6,6'-HpCB	186			1.09	M+2/M+4	1.04	0.89-1.21	1.048	1.046 - 1.049
2,2',3,4',5,5',6-HpCB	187			0.89	M+2/M+4	1.06	0.89-1.21	1.110	1.109 - 1.111
2,3,3',4,4',5,6-HpCB	190			0.93	M+2/M+4	1.04	0.89-1.21	0.947	0.946 - 0.948
2,3,3',4,4',5',6-HpCB	191			0.98	M+2/M+4	1.05	0.89-1.21	0.917	0.916 - 0.918
2,3,3',4,5,5',6-HpCB	192			0.89	M+2/M+4	1.06	0.89-1.21	0.902	0.902 - 0.903
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180						
2,2',3,3',4,4',5,5'-OcCB	194			0.78	M+2/M+4	0.91	0.76-1.02	0.991	0.990 - 0.992
2,2',3,3',4,4',5,6-OcCB	195			0.73	M+2/M+4	0.90	0.76-1.02	0.946	0.945 - 0.947
2,2',3,3',4,4',5,6'-OcCB	196			0.79	M+2/M+4	0.90	0.76-1.02	0.915	0.915 - 0.916



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2,2',3,3',4,4',6,6'-O ₂ CB	197	197 + 200	C	1.08	M+2/M+4	0.90	0.76-1.02	1.045	1.043 - 1.048
2,2',3,3',4,5,5',6-O ₂ CB	198	198 + 199	C	0.77	M+2/M+4	0.91	0.76-1.02	1.114	1.112 - 1.115
2,2',3,3',4,5,5',6'-O ₂ CB	199	198 + 199	C198						
2,2',3,3',4,5,6,6'-O ₂ CB	200	197 + 200	C197						
2,2',3,3',4,5',6,6'-O ₂ CB	201			1.10	M+2/M+4	0.89	0.76-1.02	1.023	1.021 - 1.025
2,2',3,4,4',5,5',6-O ₂ CB	203			0.79	M+2/M+4	0.91	0.76-1.02	0.919	0.918 - 0.920
2,2',3,4,4',5,6,6'-O ₂ CB	204			1.08	M+2/M+4	0.89	0.76-1.02	1.038	1.037 - 1.039
2,2',3,3',4,4',5,6,6'-No ₂ CB	207			1.12	M+2/M+4	0.78	0.65-0.89	1.020	1.019 - 1.021

- (1) Where applicable, custom lab flags have been used on this report.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist

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Report Filename: 1668_PCB1668_PB9C_358S1__Form346A_SJ1084279_GS34300.html; Workgroup: WG30036; Design ID: 1193]



PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

CAL Data Filename: PB9C_358 S: 1

Instrument ID: HR GC/MS

Analysis Date: 25-Nov-2009

GC Column ID: SPB OCTYL

Analysis Time: 08:22:54

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RRF	MZ's FORMING RATIO ³	ION ABUND. RATIO	RATIO QC LIMITS ⁴	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			1.04	M/M+2	3.22	2.66-3.60	0.722	0.706 - 0.738
13C12-4-MoCB	3L			0.99	M/M+2	3.11	2.66-3.60	0.860	0.844 - 0.876
13C12-2,2'-DiCB	4L			0.69	M/M+2	1.58	1.33-1.79	0.875	0.859 - 0.890
13C12-4,4'-DiCB	15L			0.87	M/M+2	1.57	1.33-1.79	1.253	1.237 - 1.269
13C12-2,2',6-TriCB	19L			0.58	M/M+2	1.05	0.88-1.20	1.072	1.056 - 1.088
13C12-3,4,4'-TriCB	37L			1.39	M/M+2	1.04	0.88-1.20	1.092	1.082 - 1.102
13C12-2,2',6,6'-TeCB	54L			1.35	M/M+2	0.79	0.65-0.89	0.812	0.805 - 0.819
13C12-3,3',4,4'-TeCB	77L			1.09	M/M+2	0.78	0.65-0.89	1.396	1.389 - 1.402
13C12-3,4,4',5-TeCB	81L			1.09	M/M+2	0.78	0.65-0.89	1.372	1.366 - 1.379
13C12-2,2',4,4',6,6'-PeCB	104L			1.17	M+2/M+4	1.59	1.32-1.78	0.809	0.804 - 0.814
13C12-2,3,3',4,4'-PeCB	105L			1.11	M+2/M+4	1.59	1.32-1.78	1.201	1.196 - 1.206
13C12-2,3,4,4',5-PeCB	114L			1.14	M+2/M+4	1.58	1.32-1.78	1.180	1.174 - 1.185
13C12-2,3',4,4',5-PeCB	118L			1.19	M+2/M+4	1.58	1.32-1.78	1.162	1.157 - 1.167
13C12-2',3,4,4',5-PeCB	123L			1.22	M+2/M+4	1.59	1.32-1.78	1.152	1.146 - 1.157
13C12-3,3',4,4',5-PeCB	126L			0.95	M+2/M+4	1.57	1.32-1.78	1.302	1.296 - 1.307
13C12-2,2',4,4',6,6'-HxCB	155L			1.47	M+2/M+4	1.28	1.05-1.43	0.785	0.781 - 0.789
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	1.19	M+2/M+4	1.27	1.05-1.43	1.108	1.104 - 1.112
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L						
13C12-2,3',4,4',5,5'-HxCB	167L			1.20	M+2/M+4	1.30	1.05-1.43	1.078	1.073 - 1.082
13C12-3,3',4,4',5,5'-HxCB	169L			1.06	M+2/M+4	1.28	1.05-1.43	1.191	1.187 - 1.195
13C12-2,2',3,3',4,4',5-HpCB	170L			1.05	M+2/M+4	1.07	0.89-1.21	0.897	0.893 - 0.901
13C12-2,2',3,4,4',5,5'-HpCB	180L			1.30	M+2/M+4	1.07	0.89-1.21	0.872	0.868 - 0.876
13C12-2,2',3,4',5,6,6'-HpCB	188L			1.92	M+2/M+4	1.06	0.89-1.21	0.712	0.708 - 0.716
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.32	M+2/M+4	1.06	0.89-1.21	0.959	0.954 - 0.964
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			1.46	M+2/M+4	0.92	0.76-1.02	0.818	0.814 - 0.822
13C12-2,3,3',4,4',5,5',6-OcCB	205L			1.25	M+2/M+4	0.93	0.76-1.02	1.009	1.004 - 1.014
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.86	M+2/M+4	0.80	0.65-0.89	1.043	1.038 - 1.048
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			1.26	M+2/M+4	0.82	0.65-0.89	0.949	0.944 - 0.954

(1) Suffix "L" indicates labeled compound

(2) Where applicable, custom lab flags have been used on this report.

(3) See Table 8, Method 1668A, for m/z specifications.

(4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4A
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_359 S: 1
Instrument ID: HR GC/MS Analysis Date: 25-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 20:21:07

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
2-MoCB	1			M/M+2	3.12	2.66-3.60	21.9	17.5 - 32.5
4-MoCB	3			M/M+2	3.16	2.66-3.60	24.6	17.5 - 32.5
2,2'-DiCB	4			M/M+2	1.52	1.33-1.79	26.1	17.5 - 32.5
4,4'-DiCB	15			M/M+2	1.55	1.33-1.79	26.8	21.4 - 39.8
2,2',6-TriCB	19			M/M+2	1.06	0.88-1.20	23.2	17.5 - 32.5
3,4,4'-TriCB	37			M/M+2	1.01	0.88-1.20	25.5	17.5 - 32.5
2,2',6,6'-TeCB	54			M/M+2	0.79	0.65-0.89	46.5	35.0 - 65.0
3,3',4,4'-TeCB	77			M/M+2	0.76	0.65-0.89	47.6	35.0 - 65.0
3,4,4',5-TeCB	81			M/M+2	0.73	0.65-0.89	52.4	35.0 - 65.0
2,2',4,6,6'-PeCB	104			M+2/M+4	1.56	1.32-1.78	47.5	35.0 - 65.0
2,3,3',4,4'-PeCB	105			M+2/M+4	1.51	1.32-1.78	52.9	35.0 - 65.0
2,3,4,4',5-PeCB	114			M+2/M+4	1.55	1.32-1.78	53.4	35.0 - 65.0
2,3',4,4',5-PeCB	118			M+2/M+4	1.53	1.32-1.78	51.4	35.0 - 65.0
2',3,4,4',5-PeCB	123			M+2/M+4	1.55	1.32-1.78	55.9	35.0 - 65.0
3,3',4,4',5-PeCB	126			M+2/M+4	1.53	1.32-1.78	56.1	39.0 - 72.4
2,2',4,4',6,6'-HxCB	155			M+2/M+4	1.25	1.05-1.43	47.8	35.0 - 65.0
2,3,3',4,4',5-HxCB	156	156 + 157	C	M+2/M+4	1.24	1.05-1.43	97.9	70.0 - 130
2,3,3',4,4',5'-HxCB	157	156 + 157	C156					
2,3',4,4',5,5'-HxCB	167			M+2/M+4	1.26	1.05-1.43	53.3	35.0 - 65.0
3,3',4,4',5,5'-HxCB	169			M+2/M+4	1.29	1.05-1.43	53.1	35.0 - 65.0
2,2',3,4',5,6,6'-HpCB	188			M+2/M+4	1.05	0.89-1.21	46.4	35.0 - 65.0
2,3,3',4,4',5,5'-HpCB	189			M+2/M+4	1.01	0.89-1.21	52.1	35.0 - 65.0
2,2',3,3',5,5',6,6'-OcCB	202			M+2/M+4	0.89	0.76-1.02	78.1	58.9 - 110
2,3,3',4,4',5,5',6-OcCB	205			M+2/M+4	0.88	0.76-1.02	73.8	52.5 - 97.5
2,2',3,3',4,4',5,5',6-NoCB	206			M+2/M+4	0.78	0.65-0.89	68.2	52.5 - 97.5
2,2',3,3',4,5,5',6,6'-NoCB	208			M+2/M+4	0.78	0.65-0.89	70.7	58.7 - 109
2,2',3,3',4,4',5,5',6,6'-DeCB	209			M+2/M+4	0.70	0.59-0.79	72.8	52.5 - 97.5

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) See Table 8, Method 1668A, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4B
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_359 S: 1
Instrument ID: HR GC/MS Analysis Date: 25-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 20:21:07

LABELLED COMPOUND	IUPAC NO. 1	CO-ELUTIONS	LAB FLAG 2	MZ's FORMING RATIO 3	ION ABUND. RATIO	QC LIMITS 4	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
13C12-2-MoCB	1L			M/M+2	3.19	2.66-3.60	99.9	50.0 - 150
13C12-4-MoCB	3L			M/M+2	3.11	2.66-3.60	95.0	50.0 - 150
13C12-2,2'-DiCB	4L			M/M+2	1.57	1.33-1.79	104	50.0 - 150
13C12-4,4'-DiCB	15L			M/M+2	1.56	1.33-1.79	91.0	50.0 - 150
13C12-2,2',6-TriCB	19L			M/M+2	1.04	0.88-1.20	136	50.0 - 150
13C12-3,4,4'-TriCB	37L			M/M+2	1.04	0.88-1.20	73.4	50.0 - 150
13C12-2,2',6,6'-TeCB	54L			M/M+2	0.80	0.65-0.89	102	50.0 - 150
13C12-3,3',4,4'-TeCB	77L			M/M+2	0.80	0.65-0.89	85.3	50.0 - 150
13C12-3,4,4',5'-TeCB	81L			M/M+2	0.78	0.65-0.89	83.6	50.0 - 150
13C12-2,2',4,6,6'-PeCB	104L			M+2/M+4	1.56	1.32-1.78	111	50.0 - 150
13C12-2,3,3',4,4'-PeCB	105L			M+2/M+4	1.58	1.32-1.78	80.0	50.0 - 150
13C12-2,3,4,4',5'-PeCB	114L			M+2/M+4	1.55	1.32-1.78	76.1	50.0 - 150
13C12-2,3',4,4',5'-PeCB	118L			M+2/M+4	1.58	1.32-1.78	81.9	50.0 - 150
13C12-2',3,4,4',5'-PeCB	123L			M+2/M+4	1.57	1.32-1.78	81.5	50.0 - 150
13C12-3,3',4,4',5'-PeCB	126L			M+2/M+4	1.58	1.32-1.78	80.6	50.0 - 150
13C12-2,2',4,4',6,6'-HxCB	155L			M+2/M+4	1.26	1.05-1.43	117	50.0 - 150
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	M+2/M+4	1.28	1.05-1.43	197	100 - 300
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L	M+2/M+4	1.27	1.05-1.43	99.6	50.0 - 150
13C12-2,3',4,4',5,5'-HxCB	167L			M+2/M+4	1.27	1.05-1.43	99.6	50.0 - 150
13C12-3,3',4,4',5,5'-HxCB	169L			M+2/M+4	1.28	1.05-1.43	101	50.0 - 150
13C12-2,2',3,4',5,6,6'-HpCB	188L			M+2/M+4	1.06	0.89-1.21	116	50.0 - 150
13C12-2,3,3',4,4',5,5'-HpCB	189L			M+2/M+4	1.07	0.89-1.21	86.9	50.0 - 150
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			M+2/M+4	0.92	0.76-1.02	144	50.0 - 150
13C12-2,3,3',4,4',5,5',6-OxCB	205L			M+2/M+4	0.93	0.76-1.02	95.2	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			M+2/M+4	0.81	0.65-0.89	112	50.0 - 150
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			M+2/M+4	0.80	0.65-0.89	118	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			M+4/M+6	1.16	0.99-1.33	135	50.0 - 150

CLEAN-UP STANDARD

13C12-2,4,4'-TriCB	28L			M/M+2	1.04	0.88-1.20	78.5	60.0 - 130
13C12-2,3,3',5,5'-PeCB	111L			M+2/M+4	1.55	1.32-1.78	101	60.0 - 130
13C12-2,2',3,3',5,5',6-HpCB	178L			M+2/M+4	1.03	0.89-1.21	122	60.0 - 130

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6A
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_359 S: 1
Instrument ID: HR GC/MS Analysis Date: 25-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 20:21:07

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RETENTION TIME REFERENCE	IUPAC NO. ²	RRT	RRT QC LIMITS
2-MoCB	1			13C12-2-MoCB	1L	1.001	0.999-1.004
4-MoCB	3			13C12-4-MoCB	3L	1.001	0.999-1.004
2,2'-DiCB	4			13C12-2,2'-DiCB	4L	1.000	0.999-1.004
4,4'-DiCB	15			13C12-4,4'-DiCB	15L	1.000	0.999-1.003
2,2',6-TriCB	19			13C12-2,2',6-TriCB	19L	1.000	0.999-1.003
3,4,4'-TriCB	37			13C12-3,4,4'-TriCB	37L	1.001	0.999-1.002
2,2',6,6'-TeCB	54			13C12-2,2',6,6'-TeCB	54L	1.001	0.999-1.002
3,3',4,4'-TeCB	77			13C12-3,3',4,4'-TeCB	77L	1.000	1.000-1.001
3,4,4',5-TeCB	81			13C12-3,4,4',5-TeCB	81L	1.000	1.000-1.001
2,2',4,6,6'-PeCB	104			13C12-2,2',4,6,6'-PeCB	104L	1.001	0.999-1.002
2,3,3',4,4'-PeCB	105			13C12-2,3,3',4,4'-PeCB	105L	1.000	1.000-1.001
2,3,4,4',5-PeCB	114			13C12-2,3,4,4',5-PeCB	114L	1.000	1.000-1.001
2,3',4,4',5-PeCB	118			13C12-2,3',4,4',5-PeCB	118L	1.000	1.000-1.001
2',3,4,4',5-PeCB	123			13C12-2',3,4,4',5-PeCB	123L	1.000	1.000-1.001
3,3',4,4',5-PeCB	126			13C12-3,3',4,4',5-PeCB	126L	1.000	1.000-1.001
2,2',4,4',6,6'-HxCB	155			13C12-2,2',4,4',6,6'-HxCB	155L	1.001	0.999-1.002
2,3,3',4,4',5-HxCB	156	156 + 157	C	13C12-2,3,3',4,4',5-HxCB and 13C12-2,3,3',4,4',5'-HxCB	156L/157L	1.000	0.998-1.003
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3',4,4',5,5'-HxCB	167			13C12-2,3',4,4',5,5'-HxCB	167L	1.001	1.000-1.001
3,3',4,4',5,5'-HxCB	169			13C12-3,3',4,4',5,5'-HxCB	169L	1.000	1.000-1.001
2,2',3,4',5,6,6'-HpCB	188			13C12-2,2',3,4',5,6,6'-HpCB	188L	1.000	1.000-1.001
2,3,3',4,4',5,5'-HpCB	189			13C12-2,3,3',4,4',5,5'-HpCB	189L	1.001	1.000-1.001
2,2',3,3',5,5',6,6'-OcCB	202			13C12-2,2',3,3',5,5',6,6'-OcCB	202L	1.000	1.000-1.001
2,3,3',4,4',5,5',6-OcCB	205			13C12-2,3,3',4,4',5,5',6-OcCB	205L	1.000	1.000-1.001
2,2',3,3',4,4',5,5',6-NoCB	206			13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	1.000	1.000-1.001
2,2',3,3',4,5,5',6,6'-NoCB	208			13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L	1.000	1.000-1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	1.001	1.000-1.001

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) Suffix "L" indicates labeled compound

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6B
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_359 S: 1
Instrument ID: HR GC/MS Analysis Date: 25-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 20:21:07

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RETENTION TIME REFERENCE	IUPAC NO. ¹	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			13C12-2,5-DiCB	9L	0.722	0.691-0.753
13C12-4-MoCB	3L			13C12-2,5-DiCB	9L	0.860	0.829-0.891
13C12-2,2'-DiCB	4L			13C12-2,5-DiCB	9L	0.876	0.844-0.907
13C12-4,4'-DiCB	15L			13C12-2,5-DiCB	9L	1.253	1.222-1.284
13C12-2,2',6-TriCB	19L			13C12-2,5-DiCB	9L	1.073	1.042-1.104
13C12-3,4,4'-TriCB	37L			13C12-2,2',5,5'-TeCB	52L	1.092	1.072-1.112
13C12-2,2',6,6'-TeCB	54L			13C12-2,2',5,5'-TeCB	52L	0.812	0.799-0.826
13C12-3,3',4,4'-TeCB	77L			13C12-2,2',5,5'-TeCB	52L	1.396	1.383-1.410
13C12-3,4,4',5-TeCB	81L			13C12-2,2',5,5'-TeCB	52L	1.372	1.359-1.386
13C12-2,2',4,6,6'-PeCB	104L			13C12-2,2',4,5,5'-PeCB	101L	0.808	0.798-0.819
13C12-2,3,3',4,4'-PeCB	105L			13C12-2,2',4,5,5'-PeCB	101L	1.200	1.190-1.211
13C12-2,3,4,4',5-PeCB	114L			13C12-2,2',4,5,5'-PeCB	101L	1.179	1.169-1.189
13C12-2,3',4,4',5-PeCB	118L			13C12-2,2',4,5,5'-PeCB	101L	1.162	1.151-1.172
13C12-2',3,4,4',5-PeCB	123L			13C12-2,2',4,5,5'-PeCB	101L	1.151	1.141-1.161
13C12-3,3',4,4',5-PeCB	126L			13C12-2,2',4,5,5'-PeCB	101L	1.301	1.291-1.312
13C12-2,2',4,4',6,6'-HxCB	155L			13C12-2,2',3,4,4',5'-HxCB	138L	0.785	0.777-0.793
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	13C12-2,2',3,4,4',5'-HxCB	138L	1.108	1.100-1.116
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L				
13C12-2,3',4,4',5,5'-HxCB	167L			13C12-2,2',3,4,4',5'-HxCB	138L	1.078	1.069-1.086
13C12-3,3',4,4',5,5'-HxCB	169L			13C12-2,2',3,4,4',5'-HxCB	138L	1.192	1.184-1.200
13C12-2,2',3,4',5,6,6'-HpCB	188L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.712	0.706-0.718
13C12-2,3,3',4,4',5,5'-HpCB	189L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.959	0.952-0.965
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.818	0.811-0.824
13C12-2,3,3',4,4',5,5',6-OcCB	205L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.009	1.000-1.019
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.044	1.034-1.053
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.949	0.943-0.956
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.075	1.065-1.084

CLEANUP STANDARD

13C12-2,4,4'-TriCB	28L			13C12-2,2',5,5'-TeCB	52L	0.924	0.911-0.938
13C12-2,3,3',5,5'-PeCB	111L			13C12-2,2',4,5,5'-PeCB	101L	1.087	1.077-1.097
13C12-2,2',3,3',5,5',6-HpCB	178L			13C12-2,2',3,4,4',5'-HxCB	138L	1.012	1.003-1.020

- (1) Suffix "L" indicates labeled compound
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

CAL Data Filename: PB9C_359 S: 1

Instrument ID: HR GC/MS

Analysis Date: 25-Nov-2009

GC Column ID: SPB OCTYL

Analysis Time: 20:21:07

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3-MoCB	2			1.01	M/M+2	3.12	2.66-3.60	0.989	0.985 - 0.993
2,3-DiCB	5			1.08	M/M+2	1.55	1.33-1.79	1.196	1.192 - 1.199
2,3'-DiCB	6			1.24	M/M+2	1.54	1.33-1.79	1.174	1.171 - 1.178
2,4-DiCB	7			1.22	M/M+2	1.55	1.33-1.79	1.156	1.153 - 1.160
2,4'-DiCB	8			1.40	M/M+2	1.54	1.33-1.79	1.205	1.202 - 1.209
2,5-DiCB	9			1.27	M/M+2	1.55	1.33-1.79	1.143	1.140 - 1.147
2,6-DiCB	10			1.32	M/M+2	1.51	1.33-1.79	1.013	1.010 - 1.017
3,3'-DiCB	11			1.13	M/M+2	1.56	1.33-1.79	0.970	0.967 - 0.972
3,4-DiCB	12	12 + 13	C	1.14	M/M+2	1.55	1.33-1.79	0.986	0.983 - 0.988
3,4'-DiCB	13	12 + 13	C12						
3,5-DiCB	14			1.18	M/M+2	1.54	1.33-1.79	0.925	0.922 - 0.927
2,2',3-TriCB	16			0.83	M/M+2	1.06	0.88-1.20	1.165	1.162 - 1.167
2,2',4-TriCB	17			0.92	M/M+2	1.03	0.88-1.20	1.136	1.133 - 1.139
2,2',5-TriCB	18	18 + 30	C	1.10	M/M+2	1.04	0.88-1.20	1.110	1.107 - 1.113
2,3,3'-TriCB	20	20 + 28	C	1.22	M/M+2	1.02	0.88-1.20	0.848	0.845 - 0.851
2,3,4-TriCB	21	21 + 33	C	1.27	M/M+2	1.04	0.88-1.20	0.856	0.853 - 0.859
2,3,4'-TriCB	22			1.10	M/M+2	1.04	0.88-1.20	0.872	0.870 - 0.874
2,3,5-TriCB	23			1.17	M/M+2	1.04	0.88-1.20	1.279	1.277 - 1.282
2,3,6-TriCB	24			1.23	M/M+2	1.05	0.88-1.20	1.157	1.154 - 1.160
2,3',4-TriCB	25			1.38	M/M+2	1.05	0.88-1.20	0.825	0.823 - 0.827
2,3',5-TriCB	26	26 + 29	C	1.20	M/M+2	1.06	0.88-1.20	1.298	1.293 - 1.303
2,3',6-TriCB	27			1.25	M/M+2	1.07	0.88-1.20	1.149	1.146 - 1.152
2,4,4'-TriCB	28	20 + 28	C20						
2,4,5-TriCB	29	26 + 29	C26						
2,4,6-TriCB	30	18 + 30	C18						
2,4',5-TriCB	31			1.28	M/M+2	1.07	0.88-1.20	0.837	0.835 - 0.838
2,4',6-TriCB	32			1.30	M/M+2	1.03	0.88-1.20	1.195	1.192 - 1.198
2',3,4-TriCB	33	21 + 33	C21						
2',3,5-TriCB	34			1.16	M/M+2	1.05	0.88-1.20	1.270	1.267 - 1.273
3,3',4-TriCB	35			1.13	M/M+2	1.02	0.88-1.20	0.985	0.983 - 0.987
3,3',5-TriCB	36			1.27	M/M+2	1.03	0.88-1.20	0.931	0.930 - 0.933
3,4,5-TriCB	38			1.22	M/M+2	1.02	0.88-1.20	0.966	0.965 - 0.968
3,4',5-TriCB	39			1.17	M/M+2	1.04	0.88-1.20	0.945	0.943 - 0.947
2,2',3,3'-TeCB	40	40 + 41 + 71	C	0.85	M/M+2	0.78	0.65-0.89	1.334	1.330 - 1.338
2,2',3,4-TeCB	41	40 + 41 + 71	C40						
2,2',3,4'-TeCB	42			0.84	M/M+2	0.78	0.65-0.89	1.309	1.307 - 1.312
2,2',3,5-TeCB	43			0.77	M/M+2	0.79	0.65-0.89	1.244	1.242 - 1.247
2,2',3,5'-TeCB	44	44 + 47 + 65	C	0.93	M/M+2	0.78	0.65-0.89	1.284	1.280 - 1.288
2,2',3,6-TeCB	45	45 + 51	C	0.85	M/M+2	0.78	0.65-0.89	1.146	1.142 - 1.150
2,2',3,6'-TeCB	46			0.75	M/M+2	0.78	0.65-0.89	1.160	1.158 - 1.163
2,2',4,4'-TeCB	47	44 + 47 + 65	C44						
2,2',4,5-TeCB	48			0.86	M/M+2	0.79	0.65-0.89	1.272	1.269 - 1.274
2,2',4,5'-TeCB	49	49 + 69	C	0.99	M/M+2	0.78	0.65-0.89	1.255	1.251 - 1.259
2,2',4,6-TeCB	50	50 + 53	C	0.88	M/M+2	0.77	0.65-0.89	1.110	1.106 - 1.114
2,2',4,6'-TeCB	51	45 + 51	C45						
2,2',5,5'-TeCB	52			0.87	M/M+2	0.77	0.65-0.89	1.232	1.230 - 1.235
2,2',5,6'-TeCB	53	50 + 53	C50						
2,3,3',4-TeCB	55			0.96	M/M+2	0.76	0.65-0.89	0.889	0.887 - 0.890
2,3,3',4'-TeCB	56			0.98	M/M+2	0.79	0.65-0.89	0.905	0.904 - 0.906



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,3,3',5-TeCB	57			0.99	M/M+2	0.75	0.65-0.89	0.844	0.842 - 0.845
2,3,3',5'-TeCB	58			0.97	M/M+2	0.75	0.65-0.89	0.851	0.849 - 0.852
2,3,3',6-TeCB	59	59 + 62 + 75	C	1.10	M/M+2	0.79	0.65-0.89	1.300	1.295 - 1.304
2,3,4,4'-TeCB	60			0.94	M/M+2	0.78	0.65-0.89	0.911	0.910 - 0.913
2,3,4,5-TeCB	61	61 + 70 + 74 + 76		1.02	M/M+2	0.77	0.65-0.89	0.874	0.871 - 0.877
2,3,4,6-TeCB	62	59 + 62 + 75	C59						
2,3,4',5-TeCB	63			1.01	M/M+2	0.76	0.65-0.89	0.864	0.863 - 0.866
2,3,4',6-TeCB	64			1.16	M/M+2	0.79	0.65-0.89	1.347	1.344 - 1.349
2,3,5,6-TeCB	65	44 + 47 + 65	C44						
2,3',4,4'-TeCB	66			1.04	M/M+2	0.75	0.65-0.89	0.884	0.883 - 0.886
2,3',4,5-TeCB	67			1.08	M/M+2	0.75	0.65-0.89	0.855	0.854 - 0.857
2,3',4,5'-TeCB	68			1.03	M/M+2	0.75	0.65-0.89	0.831	0.830 - 0.832
2,3',4,6-TeCB	69	49 + 69	C49						
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61						
2,3',4',6-TeCB	71	40 + 41 + 71	C40						
2,3',5,5'-TeCB	72			1.07	M/M+2	0.76	0.65-0.89	0.822	0.820 - 0.823
2,3',5',6-TeCB	73			1.08	M/M+2	0.79	0.65-0.89	1.240	1.237 - 1.242
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61						
2,4,4',6-TeCB	75	59 + 62 + 75	C59						
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61						
3,3',4,5-TeCB	78			0.98	M/M+2	0.76	0.65-0.89	0.987	0.985 - 0.988
3,3',4,5'-TeCB	79			1.20	M/M+2	0.77	0.65-0.89	0.970	0.969 - 0.972
3,3',5,5'-TeCB	80			1.06	M/M+2	0.76	0.65-0.89	0.923	0.921 - 0.924
2,2',3,3',4-PeCB	82			0.76	M+2/M+4	1.56	1.32-1.78	0.934	0.933 - 0.936
2,2',3,3',5-PeCB	83	83 + 99	C	0.81	M+2/M+4	1.57	1.32-1.78	0.884	0.882 - 0.887
2,2',3,3',6-PeCB	84			0.73	M+2/M+4	1.60	1.32-1.78	1.164	1.162 - 1.166
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	0.95	M+2/M+4	1.55	1.32-1.78	0.919	0.917 - 0.922
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	0.94	M+2/M+4	1.56	1.32-1.78	0.900	0.897 - 0.904
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3,4,6-PeCB	88	88 + 91	C	0.82	M+2/M+4	1.56	1.32-1.78	1.153	1.149 - 1.157
2,2',3,4,6'-PeCB	89			0.78	M+2/M+4	1.60	1.32-1.78	1.184	1.182 - 1.185
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	0.93	M+2/M+4	1.56	1.32-1.78	0.869	0.867 - 0.871
2,2',3,4',6-PeCB	91	88 + 91	C88						
2,2',3,5,5'-PeCB	92			0.80	M+2/M+4	1.54	1.32-1.78	0.853	0.852 - 0.854
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	0.85	M+2/M+4	1.57	1.32-1.78	1.129	1.118 - 1.140
2,2',3,5,6'-PeCB	94			0.76	M+2/M+4	1.58	1.32-1.78	1.103	1.101 - 1.105
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93						
2,2',3,6,6'-PeCB	96			1.23	M+2/M+4	1.56	1.32-1.78	1.017	1.014 - 1.021
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93						
2,2',4,4',5-PeCB	99	83 + 99	C83						
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93						
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90						
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93						
2,2',4,5',6-PeCB	103			0.90	M+2/M+4	1.55	1.32-1.78	1.093	1.091 - 1.095
2,3,3',4,5-PeCB	106			1.01	M+2/M+4	1.57	1.32-1.78	1.004	1.003 - 1.005
2,3,3',4',5-PeCB	107	107 + 124	C	0.94	M+2/M+4	1.54	1.32-1.78	0.991	0.989 - 0.993
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3,3',4,6-PeCB	109			0.96	M+2/M+4	1.54	1.32-1.78	0.997	0.996 - 0.999
2,3,3',4',6-PeCB	110	110 + 115	C	1.06	M+2/M+4	1.56	1.32-1.78	0.926	0.924 - 0.929
2,3,3',5,5'-PeCB	111			1.08	M+2/M+4	1.56	1.32-1.78	0.945	0.943 - 0.946
2,3,3',5,6-PeCB	112			1.07	M+2/M+4	1.59	1.32-1.78	0.889	0.888 - 0.891
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90						
2,3,4,4',6-PeCB	115	110 + 115	C110						
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85						
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85						
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3',4,5,5'-PeCB	120			1.13	M+2/M+4	1.55	1.32-1.78	0.958	0.957 - 0.959
2,3',4,5',6-PeCB	121			1.03	M+2/M+4	1.52	1.32-1.78	1.198	1.196 - 1.200
2',3,3',4,5-PeCB	122			0.89	M+2/M+4	1.54	1.32-1.78	1.011	1.009 - 1.012
2',3,4,5,5'-PeCB	124	107 + 124	C107						
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86						



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3,3',4,5,5'-PeCB	127			0.92	M+2/M+4	1.50	1.32-1.78	1.040	1.039 - 1.042
2,2',3,3',4,4'-HxCB	128	128 + 166	C	0.84	M+2/M+4	1.25	1.05-1.43	0.959	0.957 - 0.961
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	0.86	M+2/M+4	1.25	1.05-1.43	0.930	0.928 - 0.933
2,2',3,3',4,5'-HxCB	130			0.69	M+2/M+4	1.23	1.05-1.43	0.914	0.912 - 0.915
2,2',3,3',4,6-HxCB	131			0.73	M+2/M+4	1.23	1.05-1.43	1.161	1.160 - 1.163
2,2',3,3',4,6'-HxCB	132			0.72	M+2/M+4	1.21	1.05-1.43	1.176	1.174 - 1.179
2,2',3,3',5,5'-HxCB	133			0.79	M+2/M+4	1.24	1.05-1.43	1.192	1.191 - 1.194
2,2',3,3',5,6-HxCB	134	134 + 143	C	0.74	M+2/M+4	1.26	1.05-1.43	1.143	1.141 - 1.146
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	0.95	M+2/M+4	1.26	1.05-1.43	1.107	1.101 - 1.113
2,2',3,3',6,6'-HxCB	136			1.24	M+2/M+4	1.29	1.05-1.43	1.026	1.025 - 1.028
2,2',3,4,4',5-HxCB	137			0.73	M+2/M+4	1.27	1.05-1.43	0.918	0.917 - 0.920
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129						
2,2',3,4,4',6-HxCB	139	139 + 140	C	0.81	M+2/M+4	1.26	1.05-1.43	1.154	1.151 - 1.157
2,2',3,4,4',6'-HxCB	140	139 + 140	C139						
2,2',3,4,5,5'-HxCB	141			0.80	M+2/M+4	1.25	1.05-1.43	0.904	0.902 - 0.905
2,2',3,4,5,6-HxCB	142			0.72	M+2/M+4	1.26	1.05-1.43	1.166	1.165 - 1.168
2,2',3,4,5,6'-HxCB	143	134 + 143	C134						
2,2',3,4,5',6-HxCB	144			0.92	M+2/M+4	1.25	1.05-1.43	1.123	1.121 - 1.124
2,2',3,4,6,6'-HxCB	145			1.15	M+2/M+4	1.26	1.05-1.43	1.036	1.034 - 1.037
2,2',3,4',5,5'-HxCB	146			0.86	M+2/M+4	1.24	1.05-1.43	0.884	0.883 - 0.885
2,2',3,4',5,6-HxCB	147	147 + 149	C	0.82	M+2/M+4	1.26	1.05-1.43	1.134	1.132 - 1.137
2,2',3,4',5,6'-HxCB	148			0.91	M+2/M+4	1.26	1.05-1.43	1.084	1.082 - 1.086
2,2',3,4',5,6-HxCB	149	147 + 149	C147						
2,2',3,4',6,6'-HxCB	150			1.18	M+2/M+4	1.28	1.05-1.43	1.014	1.012 - 1.015
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135						
2,2',3,5,6,6'-HxCB	152			1.28	M+2/M+4	1.25	1.05-1.43	1.009	1.007 - 1.011
2,2',4,4',5,5'-HxCB	153	153 + 168	C	1.00	M+2/M+4	1.24	1.05-1.43	0.899	0.897 - 0.901
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135						
2,3,3',4,4',6-HxCB	158			1.09	M+2/M+4	1.24	1.05-1.43	0.938	0.937 - 0.940
2,3,3',4,5,5'-HxCB	159			0.98	M+2/M+4	1.25	1.05-1.43	0.982	0.981 - 0.983
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129						
2,3,3',4,5',6-HxCB	161			1.06	M+2/M+4	1.26	1.05-1.43	0.887	0.886 - 0.888
2,3,3',4',5,5'-HxCB	162			0.99	M+2/M+4	1.28	1.05-1.43	0.989	0.988 - 0.990
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129						
2,3,3',4',5',6-HxCB	164			1.04	M+2/M+4	1.24	1.05-1.43	0.922	0.921 - 0.923
2,3,3',5,5',6-HxCB	165			0.91	M+2/M+4	1.28	1.05-1.43	0.878	0.877 - 0.879
2,3,4,4',5,6-HxCB	166	128 + 166	C128						
2,3',4,4',5,6-HxCB	168	153 + 168	C153						
2,2',3,3',4,4',5-HpCB	170			0.78	M+2/M+4	1.06	0.89-1.21	0.936	0.935 - 0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	0.80	M+2/M+4	1.04	0.89-1.21	1.163	1.161 - 1.165
2,2',3,3',4,5,5'-HpCB	172			0.78	M+2/M+4	1.02	0.89-1.21	0.897	0.896 - 0.898
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171						
2,2',3,3',4,5,6'-HpCB	174			0.88	M+2/M+4	1.03	0.89-1.21	1.134	1.133 - 1.135
2,2',3,3',4,5',6-HpCB	175			0.86	M+2/M+4	1.05	0.89-1.21	1.102	1.101 - 1.103
2,2',3,3',4,6,6'-HpCB	176			1.13	M+2/M+4	1.04	0.89-1.21	1.035	1.034 - 1.036
2,2',3,3',4',5,6-HpCB	177			0.88	M+2/M+4	1.05	0.89-1.21	1.146	1.145 - 1.148
2,2',3,3',5,5',6-HpCB	178			0.85	M+2/M+4	1.04	0.89-1.21	1.085	1.084 - 1.087
2,2',3,3',5,6,6'-HpCB	179			1.15	M+2/M+4	1.04	0.89-1.21	1.011	1.010 - 1.012
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	1.00	M+2/M+4	1.04	0.89-1.21	0.910	0.909 - 0.911
2,2',3,4,4',5,6-HpCB	181			0.81	M+2/M+4	1.04	0.89-1.21	1.157	1.156 - 1.158
2,2',3,4,4',5,6'-HpCB	182			0.89	M+2/M+4	1.03	0.89-1.21	1.115	1.114 - 1.117
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	0.84	M+2/M+4	1.03	0.89-1.21	1.128	1.127 - 1.130
2,2',3,4,4',6,6'-HpCB	184			1.18	M+2/M+4	1.05	0.89-1.21	1.024	1.023 - 1.025
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183						
2,2',3,4,5,6,6'-HpCB	186			1.07	M+2/M+4	1.03	0.89-1.21	1.047	1.046 - 1.049
2,2',3,4',5,5',6-HpCB	187			0.93	M+2/M+4	1.06	0.89-1.21	1.110	1.109 - 1.111
2,3,3',4,4',5,6-HpCB	190			0.99	M+2/M+4	1.06	0.89-1.21	0.947	0.946 - 0.948
2,3,3',4,4',5',6-HpCB	191			1.05	M+2/M+4	1.05	0.89-1.21	0.918	0.917 - 0.919
2,3,3',4,5,5',6-HpCB	192			0.90	M+2/M+4	1.04	0.89-1.21	0.903	0.902 - 0.904
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180						
2,2',3,3',4,4',5,5'-OcCB	194			0.69	M+2/M+4	0.89	0.76-1.02	0.991	0.990 - 0.992
2,2',3,3',4,4',5,6-OcCB	195			0.63	M+2/M+4	0.90	0.76-1.02	0.946	0.945 - 0.947
2,2',3,3',4,4',5,6'-OcCB	196			0.83	M+2/M+4	0.91	0.76-1.02	0.915	0.915 - 0.916



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	1.14	M+2/M+4	0.89	0.76-1.02	1.046	1.043 - 1.048
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C	0.83	M+2/M+4	0.89	0.76-1.02	1.114	1.112 - 1.116
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198						
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197						
2,2',3,3',4,5',6,6'-OcCB	201			1.14	M+2/M+4	0.91	0.76-1.02	1.022	1.020 - 1.024
2,2',3,4,4',5,5',6-OcCB	203			0.85	M+2/M+4	0.88	0.76-1.02	0.919	0.918 - 0.920
2,2',3,4,4',5,6,6'-OcCB	204			1.11	M+2/M+4	0.91	0.76-1.02	1.038	1.037 - 1.040
2,2',3,3',4,4',5,6,6'-NoCB	207			1.09	M+2/M+4	0.79	0.65-0.89	1.020	1.019 - 1.021

(1) Where applicable, custom lab flags have been used on this report.

(2) See Table 8, Method 1668A, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Simin Yassari _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form1668346A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PB9C_359S1__Form346A_SJ1081022_GS34305.html; Workgroup: WG30036; Design ID: 1193]



PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL

CAL Data Filename: PB9C_359 S: 1
Analysis Date: 25-Nov-2009
Analysis Time: 20:21:07

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RRF	MZ's FORMING RATIO ³	ION ABUND. RATIO	RATIO QC LIMITS ⁴	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			0.98	M/M+2	3.19	2.66-3.60	0.722	0.706 - 0.738
13C12-4-MoCB	3L			0.91	M/M+2	3.11	2.66-3.60	0.860	0.844 - 0.876
13C12-2,2'-DiCB	4L			0.67	M/M+2	1.57	1.33-1.79	0.876	0.860 - 0.891
13C12-4,4'-DiCB	15L			0.92	M/M+2	1.56	1.33-1.79	1.253	1.237 - 1.269
13C12-2,2',6-TriCB	19L			0.67	M/M+2	1.04	0.88-1.20	1.073	1.057 - 1.089
13C12-3,4,4'-TriCB	37L			1.29	M/M+2	1.04	0.88-1.20	1.092	1.082 - 1.102
13C12-2,2',6,6'-TeCB	54L			1.36	M/M+2	0.80	0.65-0.89	0.812	0.805 - 0.819
13C12-3,3',4,4'-TeCB	77L			1.11	M/M+2	0.80	0.65-0.89	1.396	1.390 - 1.403
13C12-3,4,4',5'-TeCB	81L			1.11	M/M+2	0.78	0.65-0.89	1.372	1.366 - 1.379
13C12-2,2',4,4',6,6'-PeCB	104L			1.34	M+2/M+4	1.56	1.32-1.78	0.808	0.803 - 0.814
13C12-2,3,3',4,4'-PeCB	105L			1.07	M+2/M+4	1.58	1.32-1.78	1.200	1.195 - 1.206
13C12-2,3,4,4',5'-PeCB	114L			1.06	M+2/M+4	1.55	1.32-1.78	1.179	1.174 - 1.184
13C12-2,3',4,4',5'-PeCB	118L			1.14	M+2/M+4	1.58	1.32-1.78	1.162	1.157 - 1.167
13C12-2',3,4,4',5'-PeCB	123L			1.14	M+2/M+4	1.57	1.32-1.78	1.151	1.146 - 1.156
13C12-3,3',4,4',5'-PeCB	126L			0.96	M+2/M+4	1.58	1.32-1.78	1.301	1.296 - 1.307
13C12-2,2',4,4',6,6'-HxCB	155L			1.65	M+2/M+4	1.26	1.05-1.43	0.785	0.781 - 0.789
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	1.20	M+2/M+4	1.28	1.05-1.43	1.108	1.104 - 1.112
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L						
13C12-2,3',4,4',5,5'-HxCB	167L			1.19	M+2/M+4	1.27	1.05-1.43	1.078	1.073 - 1.082
13C12-3,3',4,4',5,5'-HxCB	169L			1.12	M+2/M+4	1.28	1.05-1.43	1.192	1.188 - 1.196
13C12-2,2',3,3',4,4',5'-HpCB	170L			1.14	M+2/M+4	1.07	0.89-1.21	0.898	0.894 - 0.902
13C12-2,2',3,4,4',5,5'-HpCB	180L			1.42	M+2/M+4	1.05	0.89-1.21	0.872	0.868 - 0.876
13C12-2,2',3,4',5,6,6'-HpCB	188L			1.85	M+2/M+4	1.06	0.89-1.21	0.712	0.708 - 0.716
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.24	M+2/M+4	1.07	0.89-1.21	0.959	0.954 - 0.964
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			1.80	M+2/M+4	0.92	0.76-1.02	0.818	0.814 - 0.822
13C12-2,3,3',4,4',5,5',6-OcCB	205L			1.26	M+2/M+4	0.93	0.76-1.02	1.009	1.004 - 1.014
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.93	M+2/M+4	0.81	0.65-0.89	1.044	1.039 - 1.049
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			1.33	M+2/M+4	0.80	0.65-0.89	0.949	0.944 - 0.954

- (1) Suffix "L" indicates labeled compound
- (2) Where applicable, custom lab flags have been used on this report.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Simin Yassari _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 16-Oct-2009 Time: 13:38:42

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-1

Sample Size: 10.8 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_312 S: 6

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_312 S: 1

% Moisture: 79.0
% Lipid: 1.55

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.301	0.0465	3.23	1.000
3-MoCB	2			0.250	0.0465	2.74	0.988
4-MoCB	3		B	0.280	0.0465	2.80	1.000
2,2'-DiCB	4			1.23	0.155	1.40	1.001
2,3-DiCB	5		U		0.111		
2,3'-DiCB	6			0.659	0.102	1.35	1.174
2,4-DiCB	7		K	0.158	0.103	1.24	1.156
2,4'-DiCB	8		B	3.20	0.0937	1.53	1.206
2,5-DiCB	9		K	0.196	0.0990	2.02	1.144
2,6-DiCB	10		K	0.098	0.0952	1.79	1.013
3,3'-DiCB	11		B	5.76	0.105	1.51	0.969
3,4-DiCB	12	12 + 13	C U		0.106		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.102		
4,4'-DiCB	15			0.437	0.108	1.75	1.000
2,2',3-TriCB	16		B	2.71	0.0571	0.98	1.166
2,2',4-TriCB	17		B	2.37	0.0474	0.96	1.137
2,2',5-TriCB	18	18 + 30	C B	9.64	0.0465	1.01	1.113
2,2',6-TriCB	19			0.655	0.0508	1.13	1.002
2,3,3'-TriCB	20	20 + 28	C B	67.0	0.116	1.03	0.848
2,3,4-TriCB	21	21 + 33	C B	9.06	0.111	1.02	0.857
2,3,4'-TriCB	22		B	11.3	0.124	1.06	0.873
2,3,5-TriCB	23		U		0.125		
2,3,6-TriCB	24		K	0.162	0.0465	1.95	1.158
2,3',4-TriCB	25			2.90	0.105	1.14	0.826
2,3',5-TriCB	26	26 + 29	C	8.36	0.118	1.00	1.299
2,3',6-TriCB	27			0.955	0.0465	0.90	1.151
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	41.2	0.110	1.03	0.837
2,4',6-TriCB	32		B	2.46	0.113	0.96	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.120		
3,3',4-TriCB	35		U		0.120		
3,3',5-TriCB	36		U		0.110		
3,4,4'-TriCB	37		B	2.84	0.116	0.99	1.001
3,4,5-TriCB	38		U		0.110		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			0.412	0.113	1.04	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	21.0	0.0465	0.77	1.334
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			21.1	0.0465	0.80	1.309
2,2',3,5'-TeCB	43			2.45	0.0465	0.76	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	135	0.0465	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	3.52	0.0465	0.75	1.144
2,2',3,6'-TeCB	46			0.933	0.0465	0.81	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	5.17	0.0465	0.76	1.270
2,2',4,5'-TeCB	49	49 + 69	C B	69.6	0.0465	0.79	1.256
2,2',4,6'-TeCB	50	50 + 53	C B	4.52	0.0465	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	167	0.0465	0.78	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.0465		
2,3,3',4'-TeCB	55		U		0.251		
2,3,3',4'-TeCB	56		B	27.4	0.244	0.76	0.905
2,3,3',5'-TeCB	57			1.55	0.250	0.83	0.843
2,3,3',5'-TeCB	58			1.11	0.248	0.70	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	11.7	0.0465	0.78	1.299
2,3,4,4'-TeCB	60		B	37.5	0.246	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	268	0.236	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			12.5	0.231	0.76	0.864
2,3,4',6'-TeCB	64		B	29.7	0.0465	0.78	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	149	0.223	0.78	0.884
2,3',4,5'-TeCB	67			3.39	0.221	0.74	0.855
2,3',4,5'-TeCB	68			6.28	0.243	0.76	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			7.00	0.243	0.77	0.821
2,3',5',6'-TeCB	73		U		0.0465		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			11.9	0.236	0.76	1.000
3,3',4,5'-TeCB	78		U		0.224		
3,3',4,5'-TeCB	79			4.16	0.187	0.73	0.970
3,3',5,5'-TeCB	80		U		0.215		
3,4,4',5'-TeCB	81			0.408	0.239	0.70	1.001
2,2',3,3',4'-PeCB	82			22.3	0.106	1.61	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	491	0.100	1.56	0.885
2,2',3,3',6'-PeCB	84		B	26.5	0.113	1.57	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	137	0.0819	1.59	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	254	0.0853	1.57	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	36.3	0.101	1.54	1.155
2,2',3,4,6'-PeCB	89		K	0.854	0.106	1.85	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	688	0.0884	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	152	0.100	1.56	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	201	0.0995	1.59	1.121
2,2',3,5,6'-PeCB	94			1.22	0.112	1.62	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	0.173	0.0465	1.12	1.016
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			5.83	0.0937	1.63	1.093
2,2',4,6,6'-PeCB	104		U		0.0465		
2,3,3',4,4'-PeCB	105		B	245	0.544	1.56	1.001
2,3,3',4,5-PeCB	106		U		0.515		
2,3,3',4',5-PeCB	107	107 + 124	C	16.5	0.519	1.52	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			77.6	0.468	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	305	0.0724	1.58	0.925
2,3,3',5,5'-PeCB	111			3.22	0.0726	1.67	0.944
2,3,3',5,6-PeCB	112		U		0.0726		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			12.1	0.550	1.53	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	693	0.547	1.55	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			12.9	0.0692	1.55	0.958
2,3',4,5',6-PeCB	121			1.60	0.0777	1.51	1.199
2',3,3',4,5-PeCB	122			3.06	0.547	1.67	1.010
2',3,4,4',5-PeCB	123			8.72	0.545	1.51	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			3.31	0.560	1.53	1.000
3,3',4,5,5'-PeCB	127			1.61	0.495	1.78	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	171	0.304	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	1440	0.311	1.26	0.929
2,2',3,3',4,5'-HxCB	130			85.6	0.387	1.26	0.914
2,2',3,3',4,6-HxCB	131			3.44	0.365	1.24	1.161
2,2',3,3',4,6'-HxCB	132		B	112	0.387	1.25	1.177
2,2',3,3',5,5'-HxCB	133			44.9	0.356	1.25	1.191
2,2',3,3',5,6-HxCB	134	134 + 143	C	26.7	0.373	1.26	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	319	0.0465	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	29.7	0.0465	1.24	1.026
2,2',3,4,4',5-HxCB	137			33.5	0.354	1.24	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	17.5	0.343	1.23	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			69.7	0.339	1.25	0.903
2,2',3,4,5,6-HxCB	142		U		0.388		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			24.7	0.0465	1.28	1.122
2,2',3,4,6,6'-HxCB	145		U		0.0465		
2,2',3,4',5,5'-HxCB	146		B	390	0.315	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	504	0.341	1.25	1.134
2,2',3,4',5,6'-HxCB	148			6.52	0.0465	1.31	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			1.40	0.0465	1.25	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	0.087	0.0465	0.89	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	1990	0.282	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			3.06	0.0465	1.29	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	93.8	0.361	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			68.4	0.252	1.27	0.938
2,3,3',4,5,5'-HxCB	159			4.20	0.261	1.28	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		0.276		
2,3,3',4',5,5'-HxCB	162			7.49	0.274	1.23	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			35.4	0.278	1.24	0.922
2,3,3',5,5',6-HxCB	165			5.06	0.302	1.24	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			48.6	0.255	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		1.04		
2,2',3,3',4,4',5-HpCB	170		B	164	0.0631	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	62.1	0.0643	1.02	1.163
2,2',3,3',4,5,5'-HpCB	172			39.8	0.0639	1.02	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			96.0	0.0594	1.04	1.133
2,2',3,3',4,5',6-HpCB	175			15.6	0.0602	0.99	1.102
2,2',3,3',4,6,6'-HpCB	176			14.5	0.0465	1.06	1.035
2,2',3,3',4',5,6-HpCB	177		B	164	0.0605	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			130	0.0612	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			72.3	0.0465	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	509	0.0514	1.03	0.910
2,2',3,4,4',5,6-HpCB	181			1.49	0.0617	1.20	1.156
2,2',3,4,4',5,6'-HpCB	182			4.20	0.0583	1.02	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	215	0.0588	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			2.22	0.0465	1.05	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.0488		
2,2',3,4',5,5',6-HpCB	187		B	727	0.0553	1.05	1.109
2,2',3,4',5,6,6'-HpCB	188			4.02	0.0465	1.01	1.001
2,3,3',4,4',5,5'-HpCB	189			6.86	0.0884	1.02	1.000
2,3,3',4,4',5,6-HpCB	190			30.1	0.0479	1.02	0.947
2,3,3',4,4',5',6-HpCB	191			7.60	0.0469	1.03	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.0530		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			68.7	0.0610	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			20.1	0.0672	0.93	0.946
2,2',3,3',4,4',5,6'-OxCB	196			51.7	0.0640	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	13.6	0.0483	0.94	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	158	0.0654	0.88	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			26.2	0.0477	0.89	1.023
2,2',3,3',5,5',6,6'-OxCB	202			84.1	0.0542	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			72.7	0.0621	0.92	0.919
2,2',3,4,4',5,6,6'-OxCB	204			0.310	0.0485	0.86	1.038
2,3,3',4,4',5,5',6-OxCB	205			3.23	0.0577	0.85	1.000
2,2',3,3',4,4',5,5',6-NoCB	206			54.0	0.0597	0.80	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			10.0	0.0476	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			26.9	0.0476	0.81	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	24.1	0.0465	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-1_Form1A_PB9C_312S6_SJ1077142.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 16-Oct-2009 Time: 13:38:42

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-1

Sample Size: 2.26 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_312 S: 6

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_312 S: 1

% Moisture: 79.0
% Lipid: 1.55

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	1.43	0.221	3.23	1.000
3-MoCB	2			1.19	0.221	2.74	0.988
4-MoCB	3		B	1.34	0.221	2.80	1.000
2,2'-DiCB	4			5.86	0.738	1.40	1.001
2,3-DiCB	5		U		0.528		
2,3'-DiCB	6			3.14	0.485	1.35	1.174
2,4-DiCB	7		K	0.753	0.491	1.24	1.156
2,4'-DiCB	8		B	15.2	0.446	1.53	1.206
2,5-DiCB	9		K	0.930	0.471	2.02	1.144
2,6-DiCB	10		K	0.466	0.453	1.79	1.013
3,3'-DiCB	11		B	27.4	0.500	1.51	0.969
3,4-DiCB	12	12 + 13	C U		0.505		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.485		
4,4'-DiCB	15			2.08	0.514	1.75	1.000
2,2',3-TriCB	16		B	12.9	0.272	0.98	1.166
2,2',4-TriCB	17		B	11.3	0.226	0.96	1.137
2,2',5-TriCB	18	18 + 30	C B	45.9	0.221	1.01	1.113
2,2',6-TriCB	19			3.12	0.242	1.13	1.002
2,3,3'-TriCB	20	20 + 28	C B	319	0.552	1.03	0.848
2,3,4-TriCB	21	21 + 33	C B	43.2	0.528	1.02	0.857
2,3,4'-TriCB	22		B	53.8	0.590	1.06	0.873
2,3,5-TriCB	23		U		0.595		
2,3,6-TriCB	24		K	0.775	0.221	1.95	1.158
2,3',4-TriCB	25			13.8	0.500	1.14	0.826
2,3',5-TriCB	26	26 + 29	C	39.8	0.561	1.00	1.299
2,3',6-TriCB	27			4.54	0.221	0.90	1.151
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	196	0.524	1.03	0.837
2,4',6-TriCB	32		B	11.7	0.538	0.96	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.571		
3,3',4-TriCB	35		U		0.571		
3,3',5-TriCB	36		U		0.524		
3,4,4'-TriCB	37		B	13.5	0.552	0.99	1.001
3,4,5-TriCB	38		U		0.524		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			1.96	0.538	1.04	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	100	0.221	0.77	1.334
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			100	0.221	0.80	1.309
2,2',3,5'-TeCB	43			11.7	0.221	0.76	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	643	0.221	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	16.7	0.221	0.75	1.144
2,2',3,6'-TeCB	46			4.44	0.221	0.81	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	24.6	0.221	0.76	1.270
2,2',4,5'-TeCB	49	49 + 69	C B	331	0.221	0.79	1.256
2,2',4,6'-TeCB	50	50 + 53	C B	21.5	0.221	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	797	0.221	0.78	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.221		
2,3,3',4'-TeCB	55		U		1.20		
2,3,3',4'-TeCB	56		B	131	1.16	0.76	0.905
2,3,3',5'-TeCB	57			7.38	1.19	0.83	0.843
2,3,3',5'-TeCB	58			5.28	1.18	0.70	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	55.7	0.221	0.78	1.299
2,3,4,4'-TeCB	60		B	179	1.17	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	1280	1.12	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			59.5	1.10	0.76	0.864
2,3,4',6'-TeCB	64		B	142	0.221	0.78	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	709	1.06	0.78	0.884
2,3',4,5'-TeCB	67			16.2	1.06	0.74	0.855
2,3',4,5'-TeCB	68			29.9	1.16	0.76	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			33.3	1.16	0.77	0.821
2,3',5',6'-TeCB	73		U		0.221		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			56.7	1.12	0.76	1.000
3,3',4,5'-TeCB	78		U		1.07		
3,3',4,5'-TeCB	79			19.8	0.893	0.73	0.970
3,3',5,5'-TeCB	80		U		1.03		
3,4,4',5'-TeCB	81			1.94	1.14	0.70	1.001
2,2',3,3',4'-PeCB	82			106	0.505	1.61	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	2340	0.476	1.56	0.885
2,2',3,3',6'-PeCB	84		B	126	0.538	1.57	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	652	0.390	1.59	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	1210	0.406	1.57	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	173	0.481	1.54	1.155
2,2',3,4,6'-PeCB	89		K	4.07	0.505	1.85	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	3280	0.421	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	724	0.476	1.56	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	959	0.474	1.59	1.121
2,2',3,5,6'-PeCB	94			5.81	0.533	1.62	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	0.826	0.221	1.12	1.016
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			27.7	0.446	1.63	1.093
2,2',4,6,6'-PeCB	104		U		0.221		
2,3,3',4,4'-PeCB	105		B	1170	2.59	1.56	1.001
2,3,3',4,5-PeCB	106		U		2.45		
2,3,3',4',5-PeCB	107	107 + 124	C	78.2	2.47	1.52	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			370	2.23	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	1450	0.345	1.58	0.925
2,3,3',5,5'-PeCB	111			15.3	0.345	1.67	0.944
2,3,3',5,6-PeCB	112		U		0.345		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			57.6	2.62	1.53	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	3300	2.60	1.55	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			61.4	0.330	1.55	0.958
2,3',4,5',6-PeCB	121			7.60	0.370	1.51	1.199
2',3,3',4,5-PeCB	122			14.5	2.60	1.67	1.010
2',3,4,4',5-PeCB	123			41.5	2.60	1.51	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			15.8	2.66	1.53	1.000
3,3',4,5,5'-PeCB	127			7.67	2.35	1.78	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	812	1.45	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	6850	1.48	1.26	0.929
2,2',3,3',4,5'-HxCB	130			407	1.84	1.26	0.914
2,2',3,3',4,6-HxCB	131			16.4	1.74	1.24	1.161
2,2',3,3',4,6'-HxCB	132		B	533	1.84	1.25	1.177
2,2',3,3',5,5'-HxCB	133			214	1.70	1.25	1.191
2,2',3,3',5,6-HxCB	134	134 + 143	C	127	1.78	1.26	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1520	0.221	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	142	0.221	1.24	1.026
2,2',3,4,4',5-HxCB	137			159	1.68	1.24	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	83.4	1.63	1.23	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			332	1.62	1.25	0.903
2,2',3,4,5,6-HxCB	142		U		1.84		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			117	0.221	1.28	1.122
2,2',3,4,6,6'-HxCB	145		U		0.221		
2,2',3,4',5,5'-HxCB	146		B	1860	1.50	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	2400	1.62	1.25	1.134
2,2',3,4',5,6'-HxCB	148			31.1	0.221	1.31	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			6.66	0.221	1.25	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	0.414	0.221	0.89	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	9440	1.34	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			14.5	0.221	1.29	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	446	1.72	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			325	1.20	1.27	0.938
2,3,3',4,5,5'-HxCB	159			20.0	1.24	1.28	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		1.31		
2,3,3',4',5,5'-HxCB	162			35.6	1.31	1.23	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			168	1.32	1.24	0.922
2,3,3',5,5',6-HxCB	165			24.1	1.44	1.24	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			232	1.22	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		4.95		
2,2',3,3',4,4',5-HpCB	170		B	782	0.300	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	296	0.306	1.02	1.163
2,2',3,3',4,5,5'-HpCB	172			190	0.304	1.02	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			457	0.283	1.04	1.133
2,2',3,3',4,5',6-HpCB	175			74.5	0.286	0.99	1.102
2,2',3,3',4,6,6'-HpCB	176			69.1	0.221	1.06	1.035
2,2',3,3',4',5,6-HpCB	177		B	782	0.288	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			619	0.291	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			345	0.221	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	2420	0.245	1.03	0.910
2,2',3,4,4',5,6-HpCB	181			7.09	0.294	1.20	1.156
2,2',3,4,4',5,6'-HpCB	182			20.0	0.277	1.02	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	1030	0.280	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			10.6	0.221	1.05	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.232		
2,2',3,4',5,5',6-HpCB	187		B	3460	0.263	1.05	1.109
2,2',3,4',5,6,6'-HpCB	188			19.1	0.221	1.01	1.001
2,3,3',4,4',5,5'-HpCB	189			32.7	0.421	1.02	1.000
2,3,3',4,4',5,6-HpCB	190			143	0.228	1.02	0.947
2,3,3',4,4',5',6-HpCB	191			36.2	0.224	1.03	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.252		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			327	0.291	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			95.9	0.320	0.93	0.946
2,2',3,3',4,4',5,6'-OxCB	196			246	0.305	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	64.8	0.230	0.94	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	753	0.311	0.88	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			125	0.227	0.89	1.023
2,2',3,3',5,5',6,6'-OxCB	202			401	0.258	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			346	0.296	0.92	0.919
2,2',3,4,4',5,6,6'-OxCB	204			1.48	0.231	0.86	1.038
2,3,3',4,4',5,5',6-OxCB	205			15.3	0.274	0.85	1.000
2,2',3,3',4,4',5,5',6-NoCB	206			257	0.284	0.80	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			47.6	0.227	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			128	0.227	0.81	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	115	0.221	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-1_Form1A_PB9C_312S6_SJ1077142_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-1

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 16-Oct-2009 Time: 13:38:42
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (lipid weight basis)

Sample Size: 0.167 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_312 S: 6
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_312 S: 1
% Moisture: 79.0
% Lipid: 1.55

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	19.4	3.00	3.23	1.000
3-MoCB	2			16.1	3.00	2.74	0.988
4-MoCB	3		B	18.1	3.00	2.80	1.000
2,2'-DiCB	4			79.4	10.0	1.40	1.001
2,3-DiCB	5		U		7.16		
2,3'-DiCB	6			42.5	6.58	1.35	1.174
2,4-DiCB	7		K	10.2	6.65	1.24	1.156
2,4'-DiCB	8		B	206	6.05	1.53	1.206
2,5-DiCB	9		K	12.6	6.39	2.02	1.144
2,6-DiCB	10		K	6.32	6.14	1.79	1.013
3,3'-DiCB	11		B	372	6.78	1.51	0.969
3,4-DiCB	12	12 + 13	C U		6.84		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		6.58		
4,4'-DiCB	15			28.2	6.97	1.75	1.000
2,2',3-TriCB	16		B	175	3.68	0.98	1.166
2,2',4-TriCB	17		B	153	3.06	0.96	1.137
2,2',5-TriCB	18	18 + 30	C B	622	3.00	1.01	1.113
2,2',6-TriCB	19			42.3	3.28	1.13	1.002
2,3,3'-TriCB	20	20 + 28	C B	4320	7.48	1.03	0.848
2,3,4-TriCB	21	21 + 33	C B	585	7.16	1.02	0.857
2,3,4'-TriCB	22		B	729	8.00	1.06	0.873
2,3,5-TriCB	23		U		8.07		
2,3,6-TriCB	24		K	10.5	3.00	1.95	1.158
2,3',4-TriCB	25			187	6.78	1.14	0.826
2,3',5-TriCB	26	26 + 29	C	539	7.61	1.00	1.299
2,3',6-TriCB	27			61.6	3.00	0.90	1.151
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	2660	7.10	1.03	0.837
2,4',6-TriCB	32		B	159	7.29	0.96	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		7.74		
3,3',4-TriCB	35		U		7.74		
3,3',5-TriCB	36		U		7.10		
3,4,4'-TriCB	37		B	183	7.48	0.99	1.001
3,4,5-TriCB	38		U		7.10		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			26.6	7.29	1.04	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	1360	3.00	0.77	1.334
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			1360	3.00	0.80	1.309
2,2',3,5'-TeCB	43			158	3.00	0.76	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	8710	3.00	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	227	3.00	0.75	1.144
2,2',3,6'-TeCB	46			60.2	3.00	0.81	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	334	3.00	0.76	1.270
2,2',4,5'-TeCB	49	49 + 69	C B	4490	3.00	0.79	1.256
2,2',4,6'-TeCB	50	50 + 53	C B	292	3.00	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	10800	3.00	0.78	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		3.00		
2,3,3',4'-TeCB	55		U		16.2		
2,3,3',4'-TeCB	56		B	1770	15.7	0.76	0.905
2,3,3',5'-TeCB	57			100	16.1	0.83	0.843
2,3,3',5'-TeCB	58			71.6	16.0	0.70	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	755	3.00	0.78	1.299
2,3,4,4'-TeCB	60		B	2420	15.9	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	17300	15.2	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			807	14.9	0.76	0.864
2,3,4',6'-TeCB	64		B	1920	3.00	0.78	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	9610	14.4	0.78	0.884
2,3',4,5'-TeCB	67			219	14.3	0.74	0.855
2,3',4,5'-TeCB	68			405	15.7	0.76	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			452	15.7	0.77	0.821
2,3',5',6'-TeCB	73		U		3.00		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			768	15.2	0.76	1.000
3,3',4,5'-TeCB	78		U		14.5		
3,3',4,5'-TeCB	79			268	12.1	0.73	0.970
3,3',5,5'-TeCB	80		U		13.9		
3,4,4',5'-TeCB	81			26.3	15.4	0.70	1.001
2,2',3,3',4'-PeCB	82			1440	6.84	1.61	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	31700	6.45	1.56	0.885
2,2',3,3',6'-PeCB	84		B	1710	7.29	1.57	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	8840	5.28	1.59	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	16400	5.50	1.57	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	2340	6.52	1.54	1.155
2,2',3,4,6'-PeCB	89		K	55.1	6.84	1.85	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	44400	5.70	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	9810	6.45	1.56	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	13000	6.42	1.59	1.121
2,2',3,5,6'-PeCB	94			78.7	7.23	1.62	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	11.2	3.00	1.12	1.016
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			376	6.05	1.63	1.093
2,2',4,6,6'-PeCB	104		U		3.00		
2,3,3',4,4'-PeCB	105		B	15800	35.1	1.56	1.001
2,3,3',4,5-PeCB	106		U		33.2		
2,3,3',4',5-PeCB	107	107 + 124	C	1060	33.5	1.52	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			5010	30.2	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	19700	4.67	1.58	0.925
2,3,3',5,5'-PeCB	111			208	4.68	1.67	0.944
2,3,3',5,6-PeCB	112		U		4.68		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			781	35.5	1.53	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	44700	35.3	1.55	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			832	4.47	1.55	0.958
2,3',4,5',6-PeCB	121			103	5.01	1.51	1.199
2',3,3',4,5-PeCB	122			197	35.3	1.67	1.010
2',3,4,4',5-PeCB	123			563	35.2	1.51	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			214	36.1	1.53	1.000
3,3',4,5,5'-PeCB	127			104	31.9	1.78	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	11000	19.6	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	92900	20.1	1.26	0.929
2,2',3,3',4,5'-HxCB	130			5520	25.0	1.26	0.914
2,2',3,3',4,6-HxCB	131			222	23.6	1.24	1.161
2,2',3,3',4,6'-HxCB	132		B	7230	25.0	1.25	1.177
2,2',3,3',5,5'-HxCB	133			2900	23.0	1.25	1.191
2,2',3,3',5,6-HxCB	134	134 + 143	C	1720	24.1	1.26	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	20600	3.00	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	1920	3.00	1.24	1.026
2,2',3,4,4',5-HxCB	137			2160	22.8	1.24	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	1130	22.1	1.23	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			4500	21.9	1.25	0.903
2,2',3,4,5,6-HxCB	142		U		25.0		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			1590	3.00	1.28	1.122
2,2',3,4,6,6'-HxCB	145		U		3.00		
2,2',3,4',5,5'-HxCB	146		B	25200	20.3	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	32500	22.0	1.25	1.134
2,2',3,4',5,6'-HxCB	148			421	3.00	1.31	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			90.3	3.00	1.25	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	5.61	3.00	0.89	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	128000	18.2	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			197	3.00	1.29	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	6050	23.3	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			4410	16.3	1.27	0.938
2,3,3',4,5,5'-HxCB	159			271	16.8	1.28	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		17.8		
2,3,3',4',5,5'-HxCB	162			483	17.7	1.23	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			2280	17.9	1.24	0.922
2,3,3',5,5',6-HxCB	165			327	19.5	1.24	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			3140	16.5	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		67.1		
2,2',3,3',4,4',5-HpCB	170		B	10600	4.07	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	4010	4.15	1.02	1.163
2,2',3,3',4,5,5'-HpCB	172			2570	4.12	1.02	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			6190	3.83	1.04	1.133
2,2',3,3',4,5',6-HpCB	175			1010	3.88	0.99	1.102
2,2',3,3',4,6,6'-HpCB	176			936	3.00	1.06	1.035
2,2',3,3',4',5,6-HpCB	177		B	10600	3.90	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			8390	3.95	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			4670	3.00	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	32800	3.32	1.03	0.910
2,2',3,4,4',5,6-HpCB	181			96.1	3.98	1.20	1.156
2,2',3,4,4',5,6'-HpCB	182			271	3.76	1.02	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	13900	3.79	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			143	3.00	1.05	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		3.15		
2,2',3,4',5,5',6-HpCB	187		B	46900	3.57	1.05	1.109
2,2',3,4',5,6,6'-HpCB	188			259	3.00	1.01	1.001
2,3,3',4,4',5,5'-HpCB	189			443	5.70	1.02	1.000
2,3,3',4,4',5,6-HpCB	190			1940	3.09	1.02	0.947
2,3,3',4,4',5',6-HpCB	191			490	3.03	1.03	0.917
2,3,3',4,5,5',6-HpCB	192		U		3.42		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			4430	3.94	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			1300	4.34	0.93	0.946
2,2',3,3',4,4',5,6'-OxCB	196			3340	4.13	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	878	3.12	0.94	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	10200	4.22	0.88	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			1690	3.08	0.89	1.023
2,2',3,3',5,5',6,6'-OxCB	202			5430	3.50	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			4690	4.01	0.92	0.919
2,2',3,4,4',5,6,6'-OxCB	204			20.0	3.13	0.86	1.038
2,3,3',4,4',5,5',6-OxCB	205			208	3.72	0.85	1.000
2,2',3,3',4,4',5,5',6-NoCB	206			3480	3.85	0.80	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			645	3.07	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			1740	3.07	0.81	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	1560	3.00	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-1_Form1A_PB9C_312S6_SJ1077142_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 16-Oct-2009 Time: 13:38:42
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-1
Sample Size: 10.8 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_312 S: 6
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_312 S: 1
% Moisture: 79.0
% Lipid: 1.55

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	918	45.9	3.24	0.722
13C12-4-MoCB	3L			2000	1010	50.4	3.18	0.860
13C12-2,2'-DiCB	4L			2000	1230	61.5	1.60	0.875
13C12-4,4'-DiCB	15L			2000	1420	70.8	1.58	1.253
13C12-2,2',6-TriCB	19L			2000	1630	81.6	1.04	1.072
13C12-3,4,4'-TriCB	37L			2000	1490	74.6	1.04	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1350	67.5	0.78	0.813
13C12-3,3',4,4'-TeCB	77L			2000	1910	95.6	0.78	1.396
13C12-3,4,4',5-TeCB	81L			2000	1910	95.6	0.77	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1490	74.7	1.60	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1690	84.7	1.57	1.200
13C12-2,3,4,4',5-PeCB	114L			2000	1620	81.0	1.58	1.179
13C12-2,3',4,4',5-PeCB	118L			2000	1690	84.3	1.58	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1710	85.3	1.55	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1970	98.4	1.57	1.301
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1510	75.5	1.25	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	3620	90.4	1.28	1.107
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1780	88.8	1.28	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	2020	101	1.28	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1840	92.2	1.07	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1780	89.2	1.06	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1400	70.2	1.06	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1760	87.8	1.04	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1600	80.0	0.93	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1600	80.0	0.93	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	1780	89.1	0.81	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1720	85.8	0.79	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1820	91.0	1.21	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1360	68.1	1.04	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1860	92.9	1.59	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1850	92.4	1.04	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Winnicut- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 16-Oct-2009 Time: 14:43:04

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-3

Sample Size: 10.3 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_312 S: 7

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_312 S: 1

% Moisture: 78.9
% Lipid: 1.32

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.340	0.0484	3.14	1.001
3-MoCB	2			0.238	0.0484	2.86	0.988
4-MoCB	3		K B	0.356	0.0484	3.90	1.000
2,2'-DiCB	4			2.52	0.198	1.56	1.001
2,3-DiCB	5		U		0.143		
2,3'-DiCB	6			1.39	0.131	1.60	1.174
2,4-DiCB	7			0.362	0.133	1.36	1.156
2,4'-DiCB	8		B	7.01	0.121	1.60	1.205
2,5-DiCB	9			0.407	0.128	1.68	1.143
2,6-DiCB	10			0.162	0.123	1.48	1.013
3,3'-DiCB	11		B	6.96	0.136	1.52	0.969
3,4-DiCB	12	12 + 13	C U		0.137		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.131		
4,4'-DiCB	15			1.05	0.140	1.76	1.001
2,2',3-TriCB	16		B	6.86	0.0651	1.00	1.166
2,2',4-TriCB	17		B	11.6	0.0540	1.03	1.137
2,2',5-TriCB	18	18 + 30	C B	30.7	0.0484	1.05	1.113
2,2',6-TriCB	19			2.35	0.0590	1.09	1.002
2,3,3'-TriCB	20	20 + 28	C B	184	0.211	1.03	0.848
2,3,4-TriCB	21	21 + 33	C B	31.6	0.202	1.08	0.858
2,3,4'-TriCB	22		B	31.9	0.227	1.08	0.873
2,3,5-TriCB	23		U		0.229		
2,3,6-TriCB	24		K	0.601	0.0484	0.85	1.158
2,3',4-TriCB	25			13.1	0.192	1.06	0.826
2,3',5-TriCB	26	26 + 29	C	26.4	0.216	1.06	1.299
2,3',6-TriCB	27			3.89	0.0484	1.08	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	107	0.200	1.04	0.837
2,4',6-TriCB	32		B	16.9	0.206	1.02	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	0.478	0.220	1.27	1.272
3,3',4-TriCB	35		U		0.220		
3,3',5-TriCB	36		U		0.202		
3,4,4'-TriCB	37		B	8.67	0.212	1.05	1.002
3,4,5-TriCB	38		K	0.596	0.201	1.38	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			1.39	0.206	0.91	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	158	0.0614	0.79	1.334
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			145	0.0643	0.80	1.309
2,2',3,5'-TeCB	43			12.7	0.0778	0.78	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	627	0.0587	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	34.6	0.0665	0.78	1.145
2,2',3,6'-TeCB	46			6.20	0.0748	0.82	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	42.7	0.0649	0.77	1.270
2,2',4,5'-TeCB	49	49 + 69	C B	523	0.0556	0.78	1.256
2,2',4,6'-TeCB	50	50 + 53	C B	38.9	0.0659	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	796	0.0596	0.78	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.0484		
2,3,3',4'-TeCB	55			8.67	0.697	0.84	0.889
2,3,3',4'-TeCB	56		B	151	0.676	0.77	0.904
2,3,3',5'-TeCB	57			6.02	0.692	0.78	0.843
2,3,3',5'-TeCB	58			5.17	0.687	0.78	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	58.9	0.0488	0.79	1.299
2,3,4,4'-TeCB	60		B	148	0.681	0.78	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	1310	0.655	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			50.3	0.641	0.77	0.863
2,3,4',6'-TeCB	64		B	202	0.0484	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	860	0.619	0.77	0.883
2,3',4,5'-TeCB	67			21.2	0.613	0.76	0.855
2,3',4,5'-TeCB	68			28.3	0.674	0.77	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			30.5	0.674	0.79	0.821
2,3',5',6'-TeCB	73		U		0.0488		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			56.9	0.667	0.79	1.000
3,3',4,5'-TeCB	78		U		0.621		
3,3',4,5'-TeCB	79			27.6	0.520	0.85	0.969
3,3',5,5'-TeCB	80		K	1.00	0.597	0.98	0.923
3,4,4',5'-TeCB	81			1.91	0.656	0.74	1.000
2,2',3,3',4'-PeCB	82			193	0.483	1.56	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	3140	0.455	1.57	0.885
2,2',3,3',6'-PeCB	84		B	341	0.513	1.58	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	645	0.372	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	1660	0.388	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	362	0.458	1.56	1.155
2,2',3,4,6'-PeCB	89			6.38	0.482	1.60	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	3500	0.402	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	680	0.455	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	1670	0.452	1.57	1.122
2,2',3,5,6'-PeCB	94			9.08	0.508	1.61	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			2.85	0.0484	1.52	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			49.8	0.426	1.56	1.093
2,2',4,6,6'-PeCB	104		K	0.295	0.0484	1.85	1.001
2,3,3',4,4'-PeCB	105		B	1260	2.18	1.56	1.001
2,3,3',4,5-PeCB	106		U		2.02		
2,3,3',4',5-PeCB	107	107 + 124	C	96.1	2.04	1.56	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			370	1.84	1.54	0.998
2,3,3',4',6-PeCB	110	110 + 115	C B	2460	0.329	1.57	0.926
2,3,3',5,5'-PeCB	111			9.26	0.330	1.70	0.945
2,3,3',5,6-PeCB	112		U		0.330		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			61.1	2.17	1.59	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	3890	2.22	1.56	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			49.3	0.314	1.60	0.958
2,3',4,5',6-PeCB	121			3.07	0.353	1.63	1.199
2',3,3',4,5-PeCB	122			14.5	2.15	1.67	1.011
2',3,4,4',5-PeCB	123			50.9	2.11	1.55	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			12.6	2.11	1.60	1.000
3,3',4,5,5'-PeCB	127			6.39	1.94	1.64	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	5840	0.982	1.27	0.929
2,2',3,3',4,5'-HxCB	130			348	1.22	1.26	0.914
2,2',3,3',4,6-HxCB	131			33.3	1.15	1.23	1.162
2,2',3,3',4,6'-HxCB	132		B	757	1.22	1.27	1.177
2,2',3,3',5,5'-HxCB	133			133	1.12	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	181	1.18	1.24	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1440	0.0546	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	281	0.0484	1.25	1.027
2,2',3,4,4',5-HxCB	137			170	1.12	1.25	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	85.9	1.08	1.27	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			385	1.07	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		1.22		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			142	0.0556	1.23	1.123
2,2',3,4,6,6'-HxCB	145			0.620	0.0484	1.19	1.036
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C B	2730	1.07	1.26	1.135
2,2',3,4',5,6'-HxCB	148			21.3	0.0579	1.25	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			12.2	0.0484	1.32	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.649	0.0484	1.41	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	6640	0.890	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			9.79	0.0484	1.26	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	452	1.12	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			375	0.794	1.26	0.938
2,3,3',4,5,5'-HxCB	159			17.8	0.822	1.27	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		0.872		
2,3,3',4',5,5'-HxCB	162			26.7	0.863	1.24	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			206	0.876	1.27	0.922
2,3,3',5,5',6-HxCB	165			9.41	0.952	1.29	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			228	0.799	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		3.06		
2,2',3,3',4,4',5-HpCB	170		B	700	0.138	1.03	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	290	0.141	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			152	0.140	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			488	0.130	1.03	1.134
2,2',3,3',4,5',6-HpCB	175			59.0	0.132	1.04	1.102
2,2',3,3',4,6,6'-HpCB	176			93.4	0.102	1.03	1.035
2,2',3,3',4',5,6-HpCB	177		B	686	0.132	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			404	0.134	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179			380	0.0997	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	2020	0.113	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			7.38	0.135	0.95	1.156
2,2',3,4,4',5,6'-HpCB	182			12.2	0.128	1.05	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	823	0.129	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			8.11	0.0979	1.05	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.107		
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188			14.6	0.0867	1.02	1.001
2,3,3',4,4',5,5'-HpCB	189			27.0	0.221	0.98	1.000
2,3,3',4,4',5,6-HpCB	190			135	0.105	1.05	0.947
2,3,3',4,4',5',6-HpCB	191			32.1	0.103	1.07	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.116		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			207	0.129	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			77.8	0.142	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			188	0.106	0.89	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	544	0.108	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			116	0.0787	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			274	0.0781	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			289	0.102	0.89	0.919
2,2',3,4,4',5,6,6'-OxCB	204			1.05	0.0800	0.98	1.038
2,3,3',4,4',5,5',6-OxCB	205			11.2	0.141	0.91	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	207	0.127	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	33.8	0.0879	0.76	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			124	0.0706	0.79	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	121	0.0592	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; X = result reported separately; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-3_Form1A_PB9C_312S7_SJ1077144.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Winnicut- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-3

Matrix: TISSUE

Sample Size: 2.18 g (dry)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 16-Oct-2009 Time: 14:43:04

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_312 S: 7

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_312 S: 1

Concentration Units: pg/g (dry weight basis)

% Moisture: 78.9
% Lipid: 1.32

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	1.61	0.229	3.14	1.001
3-MoCB	2			1.13	0.229	2.86	0.988
4-MoCB	3		K B	1.68	0.229	3.90	1.000
2,2'-DiCB	4			11.9	0.935	1.56	1.001
2,3-DiCB	5		U		0.674		
2,3'-DiCB	6			6.55	0.620	1.60	1.174
2,4-DiCB	7			1.71	0.630	1.36	1.156
2,4'-DiCB	8		B	33.2	0.572	1.60	1.205
2,5-DiCB	9			1.93	0.606	1.68	1.143
2,6-DiCB	10			0.767	0.582	1.48	1.013
3,3'-DiCB	11		B	32.9	0.642	1.52	0.969
3,4-DiCB	12	12 + 13	C U		0.649		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.620		
4,4'-DiCB	15			4.96	0.661	1.76	1.001
2,2',3-TriCB	16		B	32.4	0.308	1.00	1.166
2,2',4-TriCB	17		B	54.9	0.256	1.03	1.137
2,2',5-TriCB	18	18 + 30	C B	145	0.229	1.05	1.113
2,2',6-TriCB	19			11.1	0.279	1.09	1.002
2,3,3'-TriCB	20	20 + 28	C B	873	0.998	1.03	0.848
2,3,4-TriCB	21	21 + 33	C B	150	0.954	1.08	0.858
2,3,4'-TriCB	22		B	151	1.07	1.08	0.873
2,3,5-TriCB	23		U		1.09		
2,3,6-TriCB	24		K	2.84	0.229	0.85	1.158
2,3',4-TriCB	25			62.0	0.910	1.06	0.826
2,3',5-TriCB	26	26 + 29	C	125	1.02	1.06	1.299
2,3',6-TriCB	27			18.4	0.229	1.08	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	506	0.948	1.04	0.837
2,4',6-TriCB	32		B	79.8	0.973	1.02	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	2.26	1.04	1.27	1.272
3,3',4-TriCB	35		U		1.04		
3,3',5-TriCB	36		U		0.954		
3,4,4'-TriCB	37		B	41.0	1.00	1.05	1.002
3,4,5-TriCB	38		K	2.82	0.948	1.38	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			6.55	0.973	0.91	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	748	0.291	0.79	1.334
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			686	0.304	0.80	1.309
2,2',3,5'-TeCB	43			60.1	0.368	0.78	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	2970	0.278	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	163	0.314	0.78	1.145
2,2',3,6'-TeCB	46			29.3	0.354	0.82	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	202	0.307	0.77	1.270
2,2',4,5'-TeCB	49	49 + 69	C B	2480	0.263	0.78	1.256
2,2',4,6'-TeCB	50	50 + 53	C B	184	0.312	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	3770	0.282	0.78	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.229		
2,3,3',4'-TeCB	55			41.0	3.30	0.84	0.889
2,3,3',4'-TeCB	56		B	717	3.20	0.77	0.904
2,3,3',5'-TeCB	57			28.5	3.27	0.78	0.843
2,3,3',5'-TeCB	58			24.4	3.25	0.78	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	279	0.231	0.79	1.299
2,3,4,4'-TeCB	60		B	698	3.22	0.78	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	6200	3.10	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			238	3.03	0.77	0.863
2,3,4',6'-TeCB	64		B	954	0.229	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	4070	2.92	0.77	0.883
2,3',4,5'-TeCB	67			100	2.90	0.76	0.855
2,3',4,5'-TeCB	68			134	3.19	0.77	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			144	3.19	0.79	0.821
2,3',5',6'-TeCB	73		U		0.231		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			269	3.16	0.79	1.000
3,3',4,5'-TeCB	78		U		2.94		
3,3',4,5'-TeCB	79			130	2.46	0.85	0.969
3,3',5,5'-TeCB	80		K	4.73	2.83	0.98	0.923
3,4,4',5'-TeCB	81			9.04	3.11	0.74	1.000
2,2',3,3',4'-PeCB	82			910	2.28	1.56	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	14800	2.15	1.57	0.885
2,2',3,3',6'-PeCB	84		B	1620	2.43	1.58	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	3050	1.76	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	7860	1.83	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	1710	2.16	1.56	1.155
2,2',3,4,6'-PeCB	89			30.2	2.28	1.60	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	16500	1.90	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	3220	2.15	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	7920	2.14	1.57	1.122
2,2',3,5,6'-PeCB	94			43.0	2.40	1.61	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			13.5	0.229	1.52	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			236	2.01	1.56	1.093
2,2',4,6,6'-PeCB	104		K	1.40	0.229	1.85	1.001
2,3,3',4,4'-PeCB	105		B	5960	10.3	1.56	1.001
2,3,3',4,5-PeCB	106		U		9.54		
2,3,3',4',5-PeCB	107	107 + 124	C	455	9.67	1.56	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			1750	8.73	1.54	0.998
2,3,3',4',6-PeCB	110	110 + 115	C B	11700	1.56	1.57	0.926
2,3,3',5,5'-PeCB	111			43.8	1.56	1.70	0.945
2,3,3',5,6-PeCB	112		U		1.56		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			289	10.3	1.59	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	18400	10.5	1.56	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			233	1.48	1.60	0.958
2,3',4,5',6-PeCB	121			14.5	1.67	1.63	1.199
2',3,3',4,5-PeCB	122			68.6	10.2	1.67	1.011
2',3,4,4',5-PeCB	123			241	9.98	1.55	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			59.6	9.98	1.60	1.000
3,3',4,5,5'-PeCB	127			30.2	9.17	1.64	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	27600	4.65	1.27	0.929
2,2',3,3',4,5'-HxCB	130			1650	5.77	1.26	0.914
2,2',3,3',4,6-HxCB	131			158	5.44	1.23	1.162
2,2',3,3',4,6'-HxCB	132		B	3580	5.77	1.27	1.177
2,2',3,3',5,5'-HxCB	133			630	5.29	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	854	5.58	1.24	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	6800	0.258	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	1330	0.229	1.25	1.027
2,2',3,4,4',5-HxCB	137			804	5.29	1.25	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	407	5.11	1.27	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			1820	5.06	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		5.77		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			674	0.263	1.23	1.123
2,2',3,4,6,6'-HxCB	145			2.93	0.229	1.19	1.036
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C B	12900	5.06	1.26	1.135
2,2',3,4',5,6'-HxCB	148			101	0.274	1.25	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			57.7	0.229	1.32	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			3.07	0.229	1.41	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	31400	4.21	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			46.3	0.229	1.26	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	2140	5.29	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			1770	3.75	1.26	0.938
2,3,3',4,5,5'-HxCB	159			84.2	3.89	1.27	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		4.12		
2,3,3',4',5,5'-HxCB	162			127	4.08	1.24	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			973	4.14	1.27	0.922
2,3,3',5,5',6-HxCB	165			44.5	4.50	1.29	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			1080	3.78	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		14.5		
2,2',3,3',4,4',5-HpCB	170		B	3310	0.655	1.03	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	1370	0.667	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			717	0.661	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			2310	0.615	1.03	1.134
2,2',3,3',4,5',6-HpCB	175			279	0.624	1.04	1.102
2,2',3,3',4,6,6'-HpCB	176			442	0.483	1.03	1.035
2,2',3,3',4',5,6-HpCB	177		B	3240	0.624	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			1910	0.636	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179			1800	0.471	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	9540	0.534	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			34.9	0.636	0.95	1.156
2,2',3,4,4',5,6'-HpCB	182			57.7	0.606	1.05	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	3890	0.610	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			38.4	0.463	1.05	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.506		
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188			69.2	0.410	1.02	1.001
2,3,3',4,4',5,5'-HpCB	189			128	1.05	0.98	1.000
2,3,3',4,4',5,6-HpCB	190			636	0.496	1.05	0.947
2,3,3',4,4',5',6-HpCB	191			152	0.487	1.07	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.549		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			979	0.610	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			368	0.674	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			892	0.501	0.89	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	2580	0.511	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			549	0.372	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			1300	0.369	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			1370	0.483	0.89	0.919
2,2',3,4,4',5,6,6'-OxCB	204			4.96	0.379	0.98	1.038
2,3,3',4,4',5,5',6-OxCB	205			52.9	0.667	0.91	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	979	0.601	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	160	0.416	0.76	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			586	0.334	0.79	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	572	0.280	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; X = result reported separately; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-3_Form1A_PB9C_312S7_SJ1077144_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Winnicut- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 16-Oct-2009 Time: 14:43:04

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-3

Sample Size: 0.136 g (lipid)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_312 S: 7

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_312 S: 1

% Moisture: 78.9
% Lipid: 1.32

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	25.8	3.67	3.14	1.001
3-MoCB	2			18.1	3.67	2.86	0.988
4-MoCB	3		K B	27.0	3.67	3.90	1.000
2,2'-DiCB	4			191	15.0	1.56	1.001
2,3-DiCB	5		U		10.8		
2,3'-DiCB	6			105	9.94	1.60	1.174
2,4-DiCB	7			27.5	10.1	1.36	1.156
2,4'-DiCB	8		B	532	9.18	1.60	1.205
2,5-DiCB	9			30.9	9.71	1.68	1.143
2,6-DiCB	10			12.3	9.33	1.48	1.013
3,3'-DiCB	11		B	528	10.3	1.52	0.969
3,4-DiCB	12	12 + 13	C U		10.4		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		9.94		
4,4'-DiCB	15			79.6	10.6	1.76	1.001
2,2',3-TriCB	16		B	520	4.94	1.00	1.166
2,2',4-TriCB	17		B	880	4.10	1.03	1.137
2,2',5-TriCB	18	18 + 30	C B	2330	3.67	1.05	1.113
2,2',6-TriCB	19			178	4.47	1.09	1.002
2,3,3'-TriCB	20	20 + 28	C B	14000	16.0	1.03	0.848
2,3,4-TriCB	21	21 + 33	C B	2400	15.3	1.08	0.858
2,3,4'-TriCB	22		B	2420	17.2	1.08	0.873
2,3,5-TriCB	23		U		17.4		
2,3,6-TriCB	24		K	45.6	3.67	0.85	1.158
2,3',4-TriCB	25			994	14.6	1.06	0.826
2,3',5-TriCB	26	26 + 29	C	2000	16.4	1.06	1.299
2,3',6-TriCB	27			295	3.67	1.08	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	8120	15.2	1.04	0.837
2,4',6-TriCB	32		B	1280	15.6	1.02	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	36.3	16.7	1.27	1.272
3,3',4-TriCB	35		U		16.7		
3,3',5-TriCB	36		U		15.3		
3,4,4'-TriCB	37		B	658	16.1	1.05	1.002
3,4,5-TriCB	38		K	45.2	15.2	1.38	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			105	15.6	0.91	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	12000	4.66	0.79	1.334
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			11000	4.88	0.80	1.309
2,2',3,5'-TeCB	43			963	5.90	0.78	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	47600	4.45	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	2620	5.04	0.78	1.145
2,2',3,6'-TeCB	46			470	5.67	0.82	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	3240	4.92	0.77	1.270
2,2',4,5'-TeCB	49	49 + 69	C B	39700	4.22	0.78	1.256
2,2',4,6'-TeCB	50	50 + 53	C B	2950	5.00	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	60400	4.52	0.78	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		3.67		
2,3,3',4'-TeCB	55			658	52.9	0.84	0.889
2,3,3',4'-TeCB	56		B	11500	51.3	0.77	0.904
2,3,3',5'-TeCB	57			457	52.5	0.78	0.843
2,3,3',5'-TeCB	58			392	52.1	0.78	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	4470	3.70	0.79	1.299
2,3,4,4'-TeCB	60		B	11200	51.7	0.78	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	99400	49.7	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			3810	48.6	0.77	0.863
2,3,4',6'-TeCB	64		B	15300	3.67	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	65200	46.9	0.77	0.883
2,3',4,5'-TeCB	67			1610	46.5	0.76	0.855
2,3',4,5'-TeCB	68			2150	51.1	0.77	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			2310	51.1	0.79	0.821
2,3',5',6'-TeCB	73		U		3.70		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			4320	50.6	0.79	1.000
3,3',4,5'-TeCB	78		U		47.1		
3,3',4,5'-TeCB	79			2090	39.4	0.85	0.969
3,3',5,5'-TeCB	80		K	75.8	45.3	0.98	0.923
3,4,4',5'-TeCB	81			145	49.8	0.74	1.000
2,2',3,3',4'-PeCB	82			14600	36.6	1.56	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	238000	34.5	1.57	0.885
2,2',3,3',6'-PeCB	84		B	25900	38.9	1.58	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	48900	28.2	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	126000	29.4	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	27500	34.7	1.56	1.155
2,2',3,4,6'-PeCB	89			484	36.6	1.60	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	265000	30.5	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	51600	34.5	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	127000	34.3	1.57	1.122
2,2',3,5,6'-PeCB	94			689	38.5	1.61	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			216	3.67	1.52	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			3780	32.3	1.56	1.093
2,2',4,6,6'-PeCB	104		K	22.4	3.67	1.85	1.001
2,3,3',4,4'-PeCB	105		B	95600	165	1.56	1.001
2,3,3',4,5-PeCB	106		U		153		
2,3,3',4',5-PeCB	107	107 + 124	C	7290	155	1.56	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			28100	140	1.54	0.998
2,3,3',4',6-PeCB	110	110 + 115	C B	187000	25.0	1.57	0.926
2,3,3',5,5'-PeCB	111			702	25.0	1.70	0.945
2,3,3',5,6-PeCB	112		U		25.0		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			4630	165	1.59	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	295000	168	1.56	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			3740	23.8	1.60	0.958
2,3',4,5',6-PeCB	121			233	26.8	1.63	1.199
2',3,3',4,5-PeCB	122			1100	163	1.67	1.011
2',3,4,4',5-PeCB	123			3860	160	1.55	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			956	160	1.60	1.000
3,3',4,5,5'-PeCB	127			485	147	1.64	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	443000	74.5	1.27	0.929
2,2',3,3',4,5'-HxCB	130			26400	92.5	1.26	0.914
2,2',3,3',4,6-HxCB	131			2530	87.2	1.23	1.162
2,2',3,3',4,6'-HxCB	132		B	57400	92.5	1.27	1.177
2,2',3,3',5,5'-HxCB	133			10100	84.9	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	13700	89.5	1.24	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	109000	4.14	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	21300	3.67	1.25	1.027
2,2',3,4,4',5-HxCB	137			12900	84.9	1.25	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	6520	81.9	1.27	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			29200	81.2	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		92.5		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			10800	4.22	1.23	1.123
2,2',3,4,6,6'-HxCB	145			47.0	3.67	1.19	1.036
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C B	207000	81.2	1.26	1.135
2,2',3,4',5,6'-HxCB	148			1620	4.39	1.25	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			925	3.67	1.32	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			49.2	3.67	1.41	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	504000	67.5	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			743	3.67	1.26	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	34300	84.9	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			28400	60.2	1.26	0.938
2,3,3',4,5,5'-HxCB	159			1350	62.3	1.27	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		66.1		
2,3,3',4',5,5'-HxCB	162			2030	65.5	1.24	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			15600	66.4	1.27	0.922
2,3,3',5,5',6-HxCB	165			714	72.2	1.29	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			17300	60.6	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		232		
2,2',3,3',4,4',5'-HpCB	170		B	53100	10.5	1.03	0.936
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C	22000	10.7	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			11500	10.6	1.05	0.897
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			37000	9.86	1.03	1.134
2,2',3,3',4,5',6'-HpCB	175			4470	10.0	1.04	1.102
2,2',3,3',4,6',6'-HpCB	176			7080	7.74	1.03	1.035
2,2',3,3',4',5,6'-HpCB	177		B	52000	10.0	1.05	1.146
2,2',3,3',5,5',6'-HpCB	178			30600	10.2	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179			28800	7.56	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	153000	8.57	1.05	0.910
2,2',3,4,4',5,6'-HpCB	181			560	10.2	0.95	1.156
2,2',3,4,4',5,6'-HpCB	182			925	9.71	1.05	1.115
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C	62400	9.78	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			615	7.43	1.05	1.024
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		8.12		
2,2',3,4',5,5',6'-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188			1110	6.58	1.02	1.001
2,3,3',4,4',5,5'-HpCB	189			2050	16.8	0.98	1.000
2,3,3',4,4',5,6'-HpCB	190			10200	7.96	1.05	0.947
2,3,3',4,4',5',6'-HpCB	191			2430	7.81	1.07	0.917
2,3,3',4,5,5',6'-HpCB	192		U		8.80		
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			15700	9.78	0.90	0.991
2,2',3,3',4,4',5,6'-OxCB	195			5900	10.8	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			14300	8.04	0.89	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C	41300	8.19	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			8800	5.97	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			20800	5.92	0.91	1.000
2,2',3,4,4',5,5',6'-OxCB	203			21900	7.74	0.89	0.919
2,2',3,4,4',5,6,6'-OxCB	204			79.6	6.07	0.98	1.038
2,3,3',4,4',5,5',6'-OxCB	205			849	10.7	0.91	1.001
2,2',3,3',4,4',5,5',6'-NoCB	206		T	15700	9.63	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	2560	6.67	0.76	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			9400	5.35	0.79	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	9180	4.49	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congeners; X = result reported separately; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Winnicutt- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 25-Nov-2009 Time: 11:36:07

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-3 W
Sample Size: 10.3 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 4
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 78.9
% Lipid: 1.32

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		X				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C D	949	7.27	1.27	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		B D	1320	6.65	1.28	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C X				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5,5'-HxCB	159		X				
2,3,3',4,4',5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,4',5,6'-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		B D	2360	0.832	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C D	55.4	0.753	0.86	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Winnicut- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 25-Nov-2009 Time: 11:36:07

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-3 W
Sample Size: 2.18 g (dry)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 4
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 78.9
% Lipid: 1.32

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		X				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C D	4490	34.4	1.27	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		B D	6240	31.4	1.28	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C X				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	11200	3.94	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6'-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C D	262	3.56	0.86	1.045
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6'-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6'-OxCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-3_Form1A_PB9C_358S4_SJ1084299_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Winnicut- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 25-Nov-2009 Time: 11:36:07

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-3 W
Sample Size: 0.136 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 4
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 78.9
% Lipid: 1.32

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		X				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C D	72000	551	1.27	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		B D	100000	504	1.28	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C X				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	179000	63.1	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6'-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C D	4200	57.1	0.86	1.045
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6'-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6'-OxCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-3_Form1A_PB9C_358S4_SJ1084299_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Winnicut- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 16-Oct-2009 Time: 14:43:04
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-3
Sample Size: 10.3 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_312 S: 7
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_312 S: 1
% Moisture: 78.9
% Lipid: 1.32

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	824	41.2	3.23	0.722
13C12-4-MoCB	3L			2000	870	43.5	3.20	0.860
13C12-2,2'-DiCB	4L			2000	1020	50.9	1.58	0.876
13C12-4,4'-DiCB	15L			2000	1190	59.3	1.60	1.253
13C12-2,2',6-TriCB	19L			2000	1320	66.1	1.06	1.072
13C12-3,4,4'-TriCB	37L			2000	1300	65.2	1.06	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1150	57.7	0.79	0.813
13C12-3,3',4,4'-TeCB	77L			2000	1600	79.9	0.79	1.397
13C12-3,4,4',5-TeCB	81L			2000	1640	82.2	0.77	1.374
13C12-2,2',4,6,6'-PeCB	104L			2000	1280	64.2	1.60	0.808
13C12-2,3,3',4,4'-PeCB	105L			2000	1290	64.5	1.60	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1320	66.1	1.58	1.179
13C12-2,3',4,4',5-PeCB	118L			2000	1310	65.5	1.58	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1410	70.5	1.58	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1590	79.4	1.58	1.301
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1370	68.3	1.25	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	3050	76.3	1.28	1.107
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1510	75.5	1.25	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1600	80.0	1.28	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	2290	115	1.04	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	2290	114	1.05	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1790	89.6	1.08	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1870	93.3	1.06	0.958
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	2090	104	0.90	0.817
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1580	78.9	0.93	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2780	139	0.82	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1970	98.5	0.80	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	2170	108	1.18	1.074
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1200	59.8	1.06	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1510	75.3	1.59	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1580	79.1	1.05	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Winnicut- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 25-Nov-2009 Time: 11:36:07
Extract Volume (uL): 100
Injection Volume (uL): 1.0
Dilution Factor: 5
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-3 W
Sample Size: 10.3 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 4
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 78.9
% Lipid: 1.32

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L		X					
13C12-4-MoCB	3L		X					
13C12-2,2'-DiCB	4L		X					
13C12-4,4'-DiCB	15L		X					
13C12-2,2',6-TriCB	19L		X					
13C12-3,4,4'-TriCB	37L		X					
13C12-2,2',6,6'-TeCB	54L		X					
13C12-3,3',4,4'-TeCB	77L		X					
13C12-3,4,4',5-TeCB	81L		X					
13C12-2,2',4,6,6'-PeCB	104L		X					
13C12-2,3,3',4,4'-PeCB	105L		X					
13C12-2,3,4,4',5-PeCB	114L		X					
13C12-2,3',4,4',5-PeCB	118L		X					
13C12-2',3,4,4',5-PeCB	123L		X					
13C12-3,3',4,4',5-PeCB	126L		X					
13C12-2,2',4,4',6,6'-HxCB	155L		D	2000	1510	75.5	1.24	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C D	4000	2590	64.9	1.30	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L		D	2000	1320	66.2	1.29	1.078
13C12-3,3',4,4',5,5'-HxCB	169L		D	2000	1260	63.1	1.38	1.192
13C12-2,2',3,3',4,4',5-HpCB	170L		D	2000	1520	75.9	1.10	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L		D	2000	1550	77.6	1.03	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L		D	2000	1800	90.2	1.08	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L		D	2000	1340	67.2	1.01	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L		D	2000	1800	90.2	0.94	0.817
13C12-2,3,3',4,4',5,5',6-OxCB	205L		D	2000	1420	71.1	0.93	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L		X					
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L		X					
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L		X					
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L		X					
13C12-2,3,3',5,5'-PeCB	111L		X					
13C12-2,2',3,3',5,5',6-HpCB	178L		X					

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; D = dilution data; C = co-eluting congener; X = result reported separately.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 16-Oct-2009 Time: 15:47:28

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-4

Sample Size: 10.8 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_312 S: 8

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_312 S: 1

% Moisture: 78.9
% Lipid: 2.05

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.283	0.0462	2.82	1.000
3-MoCB	2			0.208	0.0505	3.48	0.988
4-MoCB	3		B	0.274	0.0515	3.21	1.000
2,2'-DiCB	4			2.56	0.170	1.58	1.001
2,3-DiCB	5		U		0.123		
2,3'-DiCB	6			1.42	0.113	1.45	1.173
2,4-DiCB	7			0.452	0.114	1.67	1.155
2,4'-DiCB	8		B	5.82	0.104	1.52	1.205
2,5-DiCB	9			0.406	0.110	1.61	1.143
2,6-DiCB	10		K	0.191	0.106	1.31	1.013
3,3'-DiCB	11		B	17.6	0.117	1.57	0.969
3,4-DiCB	12	12 + 13	C U		0.118		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.113		
4,4'-DiCB	15			1.21	0.121	1.76	1.001
2,2',3-TriCB	16		B	6.30	0.0762	1.13	1.166
2,2',4-TriCB	17		B	7.40	0.0632	1.07	1.137
2,2',5-TriCB	18	18 + 30	C B	20.5	0.0529	1.04	1.113
2,2',6-TriCB	19			2.12	0.0620	1.12	1.001
2,3,3'-TriCB	20	20 + 28	C B	92.1	0.0506	1.02	0.848
2,3,4-TriCB	21	21 + 33	C B	19.7	0.0485	1.02	0.857
2,3,4'-TriCB	22		B	20.3	0.0544	1.04	0.872
2,3,5-TriCB	23		K	0.072	0.0548	0.73	1.281
2,3,6-TriCB	24			0.489	0.0480	1.01	1.158
2,3',4-TriCB	25			6.82	0.0462	1.02	0.825
2,3',5-TriCB	26	26 + 29	C	13.1	0.0518	1.02	1.298
2,3',6-TriCB	27			2.46	0.0462	0.95	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	58.5	0.0480	1.04	0.837
2,4',6-TriCB	32		B	7.50	0.0493	1.05	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			0.212	0.0527	0.97	1.271
3,3',4-TriCB	35			0.111	0.0528	0.94	0.985
3,3',5-TriCB	36		U		0.0484		
3,4,4'-TriCB	37		B	5.16	0.0544	1.03	1.001
3,4,5-TriCB	38		K	0.233	0.0482	0.87	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	0.676	0.0493	0.80	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	42.5	0.0518	0.78	1.334
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			43.5	0.0543	0.80	1.309
2,2',3,5'-TeCB	43			5.09	0.0656	0.85	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	199	0.0495	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	10.3	0.0561	0.77	1.145
2,2',3,6'-TeCB	46			2.75	0.0631	0.87	1.159
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	14.7	0.0547	0.77	1.270
2,2',4,5'-TeCB	49	49 + 69	C B	156	0.0469	0.78	1.256
2,2',4,6'-TeCB	50	50 + 53	C B	12.1	0.0556	0.76	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	284	0.0503	0.79	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	0.101	0.0462	0.49	1.000
2,3,3',4'-TeCB	55		U		1.65		
2,3,3',4'-TeCB	56		B	63.8	1.86	0.79	0.905
2,3,3',5'-TeCB	57			1.68	1.65	0.74	0.844
2,3,3',5'-TeCB	58			2.09	1.89	0.82	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	19.2	0.0462	0.80	1.299
2,3,4,4'-TeCB	60		B	44.9	1.87	0.79	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	456	1.80	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			14.9	1.76	0.82	0.864
2,3,4',6'-TeCB	64		B	54.7	0.0462	0.77	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	212	1.70	0.79	0.884
2,3',4,5'-TeCB	67			6.08	1.69	0.85	0.856
2,3',4,5'-TeCB	68			7.58	1.86	0.79	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			9.06	1.85	0.87	0.822
2,3',5',6'-TeCB	73		U		0.0462		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			14.7	1.83	0.79	1.000
3,3',4,5'-TeCB	78		U		1.49		
3,3',4,5'-TeCB	79			7.94	1.43	0.77	0.969
3,3',5,5'-TeCB	80		U		1.43		
3,4,4',5'-TeCB	81		U		1.87		
2,2',3,3',4'-PeCB	82			59.5	0.754	1.60	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	970	0.711	1.56	0.886
2,2',3,3',6'-PeCB	84		B	73.6	0.802	1.58	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	213	0.581	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	603	0.606	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	71.9	0.715	1.57	1.154
2,2',3,4,6'-PeCB	89			1.93	0.753	1.64	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	1240	0.627	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	226	0.711	1.56	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	504	0.706	1.62	1.121
2,2',3,5,6'-PeCB	94		K	2.15	0.794	1.85	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			0.878	0.0559	1.40	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			13.4	0.665	1.55	1.093
2,2',4,6,6'-PeCB	104		K	0.115	0.0523	1.23	1.001
2,3,3',4,4'-PeCB	105		B	369	2.13	1.55	1.000
2,3,3',4,5-PeCB	106		U		2.04		
2,3,3',4',5-PeCB	107	107 + 124	C	30.3	2.05	1.42	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			129	1.85	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	688	0.514	1.57	0.925
2,3,3',5,5'-PeCB	111		K	4.85	0.515	1.79	0.945
2,3,3',5,6-PeCB	112		U		0.515		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			19.1	2.18	1.54	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	1150	2.10	1.55	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			18.7	0.491	1.67	0.958
2,3',4,5',6-PeCB	121			1.79	0.552	1.63	1.198
2',3,3',4,5-PeCB	122			7.34	2.16	1.45	1.010
2',3,4,4',5-PeCB	123			15.8	2.22	1.48	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			3.07	2.31	1.68	1.000
3,3',4,5,5'-PeCB	127			2.09	1.96	1.63	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	255	1.06	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	2230	1.09	1.26	0.929
2,2',3,3',4,5'-HxCB	130			128	1.35	1.26	0.913
2,2',3,3',4,6-HxCB	131			8.21	1.27	1.29	1.161
2,2',3,3',4,6'-HxCB	132		B	263	1.35	1.24	1.176
2,2',3,3',5,5'-HxCB	133			54.8	1.24	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	54.7	1.30	1.24	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	670	0.0630	1.25	1.105
2,2',3,3',6,6'-HxCB	136		B	98.7	0.0496	1.27	1.026
2,2',3,4,4',5-HxCB	137			49.4	1.24	1.25	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	27.5	1.20	1.23	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			193	1.18	1.27	0.903
2,2',3,4,5,6-HxCB	142		U		1.35		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			66.5	0.0641	1.25	1.122
2,2',3,4,6,6'-HxCB	145		K	0.373	0.0526	2.31	1.035
2,2',3,4',5,5'-HxCB	146		B	559	1.10	1.25	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	1080	1.19	1.26	1.135
2,2',3,4',5,6'-HxCB	148			9.32	0.0668	1.29	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			2.47	0.0511	1.22	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.274	0.0475	1.30	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	2790	0.985	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			5.15	0.0462	1.30	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	140	1.24	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			123	0.879	1.26	0.938
2,3,3',4,5,5'-HxCB	159			11.0	0.910	1.27	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		0.965		
2,3,3',4',5,5'-HxCB	162			10.4	0.955	1.34	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			90.1	0.970	1.25	0.921
2,3,3',5,5',6-HxCB	165			6.56	1.05	1.23	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			74.5	0.886	1.25	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		1.46		
2,2',3,3',4,4',5-HpCB	170		B	276	0.0503	1.05	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	90.6	0.0513	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			66.7	0.0509	1.06	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			243	0.0474	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			21.5	0.0480	1.04	1.103
2,2',3,3',4,6,6'-HpCB	176			35.8	0.0462	1.03	1.035
2,2',3,3',4',5,6-HpCB	177		B	266	0.0482	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			173	0.0488	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179			155	0.0462	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	884	0.0462	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			2.28	0.0492	0.97	1.157
2,2',3,4,4',5,6'-HpCB	182			5.71	0.0465	1.05	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	315	0.0469	1.03	1.127
2,2',3,4,4',6,6'-HpCB	184			3.80	0.0462	1.01	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.0462		
2,2',3,4',5,5',6-HpCB	187		B	1000	0.0462	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			3.74	0.0462	0.97	1.001
2,3,3',4,4',5,5'-HpCB	189			11.2	0.129	1.04	1.000
2,3,3',4,4',5,6-HpCB	190			60.8	0.0462	1.03	0.947
2,3,3',4,4',5',6-HpCB	191			11.7	0.0462	0.99	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.0462		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			109	0.0647	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			36.9	0.0712	0.89	0.946
2,2',3,3',4,4',5,6'-OxCB	196			56.3	0.0709	0.89	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	22.1	0.0535	0.94	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	207	0.0724	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			33.4	0.0529	0.90	1.022
2,2',3,3',5,5',6,6'-OxCB	202			91.9	0.0619	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			111	0.0687	0.90	0.920
2,2',3,4,4',5,6,6'-OxCB	204			0.314	0.0537	1.02	1.038
2,3,3',4,4',5,5',6-OxCB	205			6.38	0.0595	0.92	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	109	0.105	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	12.2	0.0723	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			54.6	0.0557	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	71.9	0.0548	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-4_Form1A_PB9C_312S8_SJ1077146.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 16-Oct-2009 Time: 15:47:28

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-4

Sample Size: 2.28 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_312 S: 8

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_312 S: 1

% Moisture: 78.9
% Lipid: 2.05

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	1.34	0.219	2.82	1.000
3-MoCB	2			0.989	0.240	3.48	0.988
4-MoCB	3		B	1.30	0.244	3.21	1.000
2,2'-DiCB	4			12.1	0.806	1.58	1.001
2,3-DiCB	5		U		0.583		
2,3'-DiCB	6			6.73	0.535	1.45	1.173
2,4-DiCB	7			2.14	0.540	1.67	1.155
2,4'-DiCB	8		B	27.5	0.493	1.52	1.205
2,5-DiCB	9			1.92	0.522	1.61	1.143
2,6-DiCB	10		K	0.905	0.502	1.31	1.013
3,3'-DiCB	11		B	83.4	0.555	1.57	0.969
3,4-DiCB	12	12 + 13	C U		0.560		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.535		
4,4'-DiCB	15			5.73	0.573	1.76	1.001
2,2',3-TriCB	16		B	29.9	0.361	1.13	1.166
2,2',4-TriCB	17		B	35.1	0.300	1.07	1.137
2,2',5-TriCB	18	18 + 30	C B	97.0	0.251	1.04	1.113
2,2',6-TriCB	19			10.1	0.294	1.12	1.001
2,3,3'-TriCB	20	20 + 28	C B	436	0.240	1.02	0.848
2,3,4-TriCB	21	21 + 33	C B	93.4	0.230	1.02	0.857
2,3,4'-TriCB	22		B	96.2	0.258	1.04	0.872
2,3,5-TriCB	23		K	0.341	0.260	0.73	1.281
2,3,6-TriCB	24			2.32	0.228	1.01	1.158
2,3',4-TriCB	25			32.3	0.219	1.02	0.825
2,3',5-TriCB	26	26 + 29	C	62.1	0.245	1.02	1.298
2,3',6-TriCB	27			11.6	0.219	0.95	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	277	0.228	1.04	0.837
2,4',6-TriCB	32		B	35.6	0.234	1.05	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			1.01	0.250	0.97	1.271
3,3',4-TriCB	35			0.526	0.250	0.94	0.985
3,3',5-TriCB	36		U		0.230		
3,4,4'-TriCB	37		B	24.4	0.258	1.03	1.001
3,4,5-TriCB	38		K	1.11	0.229	0.87	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	3.20	0.234	0.80	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	202	0.245	0.78	1.334
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			207	0.257	0.80	1.309
2,2',3,5'-TeCB	43			24.1	0.311	0.85	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	944	0.235	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	48.8	0.266	0.77	1.145
2,2',3,6'-TeCB	46			13.0	0.299	0.87	1.159
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	69.6	0.259	0.77	1.270
2,2',4,5'-TeCB	49	49 + 69	C B	739	0.222	0.78	1.256
2,2',4,6'-TeCB	50	50 + 53	C B	57.3	0.264	0.76	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	1350	0.239	0.79	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	0.479	0.219	0.49	1.000
2,3,3',4'-TeCB	55		U		7.82		
2,3,3',4'-TeCB	56		B	303	8.82	0.79	0.905
2,3,3',5'-TeCB	57			7.96	7.82	0.74	0.844
2,3,3',5'-TeCB	58			9.89	8.96	0.82	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	91.0	0.219	0.80	1.299
2,3,4,4'-TeCB	60		B	212	8.86	0.79	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	2160	8.53	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			70.6	8.34	0.82	0.864
2,3,4',6'-TeCB	64		B	259	0.219	0.77	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	1010	8.06	0.79	0.884
2,3',4,5'-TeCB	67			28.8	8.01	0.85	0.856
2,3',4,5'-TeCB	68			35.9	8.82	0.79	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			43.0	8.77	0.87	0.822
2,3',5',6'-TeCB	73		U		0.219		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			69.6	8.67	0.79	1.000
3,3',4,5'-TeCB	78		U		7.06		
3,3',4,5'-TeCB	79			37.6	6.78	0.77	0.969
3,3',5,5'-TeCB	80		U		6.78		
3,4,4',5'-TeCB	81		U		8.86		
2,2',3,3',4'-PeCB	82			282	3.57	1.60	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	4600	3.37	1.56	0.886
2,2',3,3',6'-PeCB	84		B	349	3.80	1.58	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	1010	2.75	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	2860	2.87	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	340	3.38	1.57	1.154
2,2',3,4,6'-PeCB	89			9.14	3.57	1.64	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	5880	2.97	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	1070	3.37	1.56	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	2390	3.35	1.62	1.121
2,2',3,5,6'-PeCB	94		K	10.2	3.76	1.85	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			4.16	0.265	1.40	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			63.5	3.15	1.55	1.093
2,2',4,6,6'-PeCB	104		K	0.545	0.248	1.23	1.001
2,3,3',4,4'-PeCB	105		B	1750	10.1	1.55	1.000
2,3,3',4,5-PeCB	106		U		9.67		
2,3,3',4',5-PeCB	107	107 + 124	C	144	9.70	1.42	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			611	8.77	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	3260	2.43	1.57	0.925
2,3,3',5,5'-PeCB	111		K	23.0	2.44	1.79	0.945
2,3,3',5,6-PeCB	112		U		2.44		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			90.5	10.4	1.54	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	5450	9.99	1.55	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			88.6	2.33	1.67	0.958
2,3',4,5',6-PeCB	121			8.49	2.62	1.63	1.198
2',3,3',4,5-PeCB	122			34.8	10.3	1.45	1.010
2',3,4,4',5-PeCB	123			74.9	10.5	1.48	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			14.5	11.0	1.68	1.000
3,3',4,5,5'-PeCB	127			9.89	9.29	1.63	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	1210	5.02	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	10600	5.17	1.26	0.929
2,2',3,3',4,5'-HxCB	130			607	6.40	1.26	0.913
2,2',3,3',4,6-HxCB	131			38.9	6.02	1.29	1.161
2,2',3,3',4,6'-HxCB	132		B	1250	6.40	1.24	1.176
2,2',3,3',5,5'-HxCB	133			260	5.88	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	259	6.16	1.24	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	3170	0.299	1.25	1.105
2,2',3,3',6,6'-HxCB	136		B	467	0.235	1.27	1.026
2,2',3,4,4',5-HxCB	137			234	5.88	1.25	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	130	5.68	1.23	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			914	5.60	1.27	0.903
2,2',3,4,5,6-HxCB	142		U		6.40		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			315	0.304	1.25	1.122
2,2',3,4,6,6'-HxCB	145		K	1.76	0.249	2.31	1.035
2,2',3,4',5,5'-HxCB	146		B	2650	5.22	1.25	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	5120	5.64	1.26	1.135
2,2',3,4',5,6'-HxCB	148			44.1	0.316	1.29	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			11.7	0.242	1.22	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			1.30	0.225	1.30	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	13200	4.66	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			24.4	0.219	1.30	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	663	5.88	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			583	4.17	1.26	0.938
2,3,3',4,5,5'-HxCB	159			52.2	4.32	1.27	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		4.58		
2,3,3',4',5,5'-HxCB	162			49.3	4.53	1.34	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			427	4.60	1.25	0.921
2,3,3',5,5',6-HxCB	165			31.1	4.97	1.23	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			353	4.20	1.25	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		6.92		
2,2',3,3',4,4',5-HpCB	170		B	1310	0.239	1.05	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	430	0.243	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			316	0.241	1.06	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			1150	0.225	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			102	0.228	1.04	1.103
2,2',3,3',4,6'-HpCB	176			170	0.219	1.03	1.035
2,2',3,3',4',5,6-HpCB	177		B	1260	0.229	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			819	0.231	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179			734	0.219	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	4190	0.219	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			10.8	0.233	0.97	1.157
2,2',3,4,4',5,6'-HpCB	182			27.1	0.220	1.05	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	1490	0.222	1.03	1.127
2,2',3,4,4',6,6'-HpCB	184			18.0	0.219	1.01	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.219		
2,2',3,4',5,5',6-HpCB	187		B	4740	0.219	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			17.7	0.219	0.97	1.001
2,3,3',4,4',5,5'-HpCB	189			53.0	0.611	1.04	1.000
2,3,3',4,4',5,6-HpCB	190			288	0.219	1.03	0.947
2,3,3',4,4',5',6-HpCB	191			55.5	0.219	0.99	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.219		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			517	0.306	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			175	0.337	0.89	0.946
2,2',3,3',4,4',5,6'-OxCB	196			267	0.336	0.89	0.916
2,2',3,3',4,4',6-OxCB	197	197 + 200	C	105	0.253	0.94	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	979	0.343	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			158	0.251	0.90	1.022
2,2',3,3',5,5',6,6'-OxCB	202			435	0.294	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			526	0.326	0.90	0.920
2,2',3,4,4',5,6,6'-OxCB	204			1.48	0.254	1.02	1.038
2,3,3',4,4',5,5',6-OxCB	205			30.3	0.282	0.92	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	517	0.497	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	57.8	0.342	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			259	0.264	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	340	0.260	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-4_Form1A_PB9C_312S8_SJ1077146_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 16-Oct-2009 Time: 15:47:28

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-4

Sample Size: 0.221 g (lipid)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_312 S: 8

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_312 S: 1

% Moisture: 78.9
% Lipid: 2.05

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	13.8	2.26	2.82	1.000
3-MoCB	2			10.2	2.47	3.48	0.988
4-MoCB	3		B	13.4	2.52	3.21	1.000
2,2'-DiCB	4			125	8.31	1.58	1.001
2,3-DiCB	5		U		6.01		
2,3'-DiCB	6			69.4	5.52	1.45	1.173
2,4-DiCB	7			22.1	5.57	1.67	1.155
2,4'-DiCB	8		B	284	5.08	1.52	1.205
2,5-DiCB	9			19.8	5.38	1.61	1.143
2,6-DiCB	10		K	9.33	5.18	1.31	1.013
3,3'-DiCB	11		B	860	5.72	1.57	0.969
3,4-DiCB	12	12 + 13	C U		5.77		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		5.52		
4,4'-DiCB	15			59.1	5.91	1.76	1.001
2,2',3-TriCB	16		B	308	3.72	1.13	1.166
2,2',4-TriCB	17		B	362	3.09	1.07	1.137
2,2',5-TriCB	18	18 + 30	C B	1000	2.59	1.04	1.113
2,2',6-TriCB	19			104	3.03	1.12	1.001
2,3,3'-TriCB	20	20 + 28	C B	4500	2.47	1.02	0.848
2,3,4-TriCB	21	21 + 33	C B	963	2.37	1.02	0.857
2,3,4'-TriCB	22		B	992	2.66	1.04	0.872
2,3,5-TriCB	23		K	3.52	2.68	0.73	1.281
2,3,6-TriCB	24			23.9	2.35	1.01	1.158
2,3',4-TriCB	25			333	2.26	1.02	0.825
2,3',5-TriCB	26	26 + 29	C	640	2.53	1.02	1.298
2,3',6-TriCB	27			120	2.26	0.95	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	2860	2.35	1.04	0.837
2,4',6-TriCB	32		B	367	2.41	1.05	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			10.4	2.58	0.97	1.271
3,3',4-TriCB	35			5.42	2.58	0.94	0.985
3,3',5-TriCB	36		U		2.37		
3,4,4'-TriCB	37		B	252	2.66	1.03	1.001
3,4,5-TriCB	38		K	11.4	2.36	0.87	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		K	33.0	2.41	0.80	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	2080	2.53	0.78	1.334
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			2130	2.65	0.80	1.309
2,2',3,5'-TeCB	43			249	3.21	0.85	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	9730	2.42	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	503	2.74	0.77	1.145
2,2',3,6'-TeCB	46			134	3.08	0.87	1.159
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	718	2.67	0.77	1.270
2,2',4,5'-TeCB	49	49 + 69	C B	7620	2.29	0.78	1.256
2,2',4,6'-TeCB	50	50 + 53	C B	591	2.72	0.76	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	13900	2.46	0.79	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	4.94	2.26	0.49	1.000
2,3,3',4'-TeCB	55		U		80.6		
2,3,3',4'-TeCB	56		B	3120	90.9	0.79	0.905
2,3,3',5'-TeCB	57			82.1	80.6	0.74	0.844
2,3,3',5'-TeCB	58			102	92.4	0.82	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	938	2.26	0.80	1.299
2,3,4,4'-TeCB	60		B	2190	91.4	0.79	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	22300	88.0	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			728	86.0	0.82	0.864
2,3,4',6'-TeCB	64		B	2670	2.26	0.77	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	10400	83.1	0.79	0.884
2,3',4,5'-TeCB	67			297	82.6	0.85	0.856
2,3',4,5'-TeCB	68			370	90.9	0.79	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			443	90.4	0.87	0.822
2,3',5',6'-TeCB	73		U		2.26		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			718	89.4	0.79	1.000
3,3',4,5'-TeCB	78		U		72.8		
3,3',4,5'-TeCB	79			388	69.9	0.77	0.969
3,3',5,5'-TeCB	80		U		69.9		
3,4,4',5'-TeCB	81		U		91.4		
2,2',3,3',4'-PeCB	82			2910	36.8	1.60	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	47400	34.7	1.56	0.886
2,2',3,3',6'-PeCB	84		B	3600	39.2	1.58	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	10400	28.4	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	29500	29.6	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	3510	34.9	1.57	1.154
2,2',3,4,6'-PeCB	89			94.3	36.8	1.64	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	60600	30.6	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	11000	34.7	1.56	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	24600	34.5	1.62	1.121
2,2',3,5,6'-PeCB	94		K	105	38.8	1.85	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			42.9	2.73	1.40	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			655	32.5	1.55	1.093
2,2',4,6,6'-PeCB	104		K	5.62	2.56	1.23	1.001
2,3,3',4,4'-PeCB	105		B	18000	104	1.55	1.000
2,3,3',4,5-PeCB	106		U		99.7		
2,3,3',4',5-PeCB	107	107 + 124	C	1480	100	1.42	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			6300	90.4	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	33600	25.1	1.57	0.925
2,3,3',5,5'-PeCB	111		K	237	25.2	1.79	0.945
2,3,3',5,6-PeCB	112		U		25.2		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			933	107	1.54	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	56200	103	1.55	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			914	24.0	1.67	0.958
2,3',4,5',6-PeCB	121			87.5	27.0	1.63	1.198
2',3,3',4,5-PeCB	122			359	106	1.45	1.010
2',3,4,4',5-PeCB	123			772	108	1.48	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			150	113	1.68	1.000
3,3',4,5,5'-PeCB	127			102	95.8	1.63	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	12500	51.8	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	109000	53.3	1.26	0.929
2,2',3,3',4,5'-HxCB	130			6260	66.0	1.26	0.913
2,2',3,3',4,6-HxCB	131			401	62.1	1.29	1.161
2,2',3,3',4,6'-HxCB	132		B	12900	66.0	1.24	1.176
2,2',3,3',5,5'-HxCB	133			2680	60.6	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	2670	63.5	1.24	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	32700	3.08	1.25	1.105
2,2',3,3',6,6'-HxCB	136		B	4820	2.42	1.27	1.026
2,2',3,4,4',5-HxCB	137			2410	60.6	1.25	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	1340	58.6	1.23	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			9430	57.7	1.27	0.903
2,2',3,4,5,6-HxCB	142		U		66.0		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			3250	3.13	1.25	1.122
2,2',3,4,6,6'-HxCB	145		K	18.2	2.57	2.31	1.035
2,2',3,4',5,5'-HxCB	146		B	27300	53.8	1.25	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	52800	58.2	1.26	1.135
2,2',3,4',5,6'-HxCB	148			455	3.26	1.29	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			121	2.50	1.22	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			13.4	2.32	1.30	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	136000	48.1	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			252	2.26	1.30	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	6840	60.6	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			6010	43.0	1.26	0.938
2,3,3',4,5,5'-HxCB	159			538	44.5	1.27	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		47.2		
2,3,3',4',5,5'-HxCB	162			508	46.7	1.34	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			4400	47.4	1.25	0.921
2,3,3',5,5',6-HxCB	165			321	51.3	1.23	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			3640	43.3	1.25	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		71.4		
2,2',3,3',4,4',5-HpCB	170		B	13500	2.46	1.05	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	4430	2.51	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			3260	2.49	1.06	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			11900	2.32	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			1050	2.35	1.04	1.103
2,2',3,3',4,6,6'-HpCB	176			1750	2.26	1.03	1.035
2,2',3,3',4',5,6-HpCB	177		B	13000	2.36	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			8450	2.38	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179			7570	2.26	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	43200	2.26	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			111	2.40	0.97	1.157
2,2',3,4,4',5,6'-HpCB	182			279	2.27	1.05	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	15400	2.29	1.03	1.127
2,2',3,4,4',6,6'-HpCB	184			186	2.26	1.01	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		2.26		
2,2',3,4',5,5',6-HpCB	187		B	48900	2.26	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			183	2.26	0.97	1.001
2,3,3',4,4',5,5'-HpCB	189			547	6.30	1.04	1.000
2,3,3',4,4',5,6-HpCB	190			2970	2.26	1.03	0.947
2,3,3',4,4',5',6-HpCB	191			572	2.26	0.99	0.918
2,3,3',4,5,5',6-HpCB	192		U		2.26		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			5330	3.16	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			1800	3.48	0.89	0.946
2,2',3,3',4,4',5,6'-OxCB	196			2750	3.46	0.89	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	1080	2.61	0.94	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	10100	3.54	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			1630	2.59	0.90	1.022
2,2',3,3',5,5',6,6'-OxCB	202			4490	3.03	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			5420	3.36	0.90	0.920
2,2',3,4,4',5,6,6'-OxCB	204			15.3	2.62	1.02	1.038
2,3,3',4,4',5,5',6-OxCB	205			312	2.91	0.92	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	5330	5.13	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	596	3.53	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			2670	2.72	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	3510	2.68	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-4_Form1A_PB9C_312S8_SJ1077146_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 16-Oct-2009 Time: 15:47:28
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-4
Sample Size: 10.8 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_312 S: 8
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_312 S: 1
% Moisture: 78.9
% Lipid: 2.05

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	742	37.1	3.24	0.722
13C12-4-MoCB	3L			2000	832	41.6	3.18	0.860
13C12-2,2'-DiCB	4L			2000	988	49.4	1.62	0.876
13C12-4,4'-DiCB	15L			2000	1160	58.0	1.56	1.253
13C12-2,2',6-TriCB	19L			2000	1370	68.7	1.03	1.072
13C12-3,4,4'-TriCB	37L			2000	1270	63.6	1.04	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1200	60.2	0.79	0.813
13C12-3,3',4,4'-TeCB	77L			2000	1760	87.9	0.77	1.397
13C12-3,4,4',5-TeCB	81L			2000	1740	87.2	0.79	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1390	69.5	1.59	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1640	82.2	1.56	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1510	75.6	1.59	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1620	80.8	1.58	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1590	79.7	1.56	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1800	89.8	1.60	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1370	68.7	1.25	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	3410	85.3	1.28	1.107
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1680	84.2	1.29	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1910	95.5	1.28	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1650	82.7	1.05	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1660	83.1	1.05	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1300	65.0	1.06	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1620	81.2	1.05	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1490	74.5	0.92	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1620	81.0	0.93	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2640	132	0.84	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1540	77.2	0.81	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1700	85.1	1.19	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1220	61.1	1.04	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1830	91.7	1.59	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1790	89.7	1.05	1.011

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 16-Oct-2009 Time: 16:51:52

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-5

Sample Size: 10.2 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_312 S: 9

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_312 S: 1

% Moisture: 79.0
% Lipid: 1.63

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	2.54	0.0489	3.10	1.001
3-MoCB	2		K	0.393	0.0565	2.60	0.988
4-MoCB	3		K B	0.345	0.0601	4.72	1.000
2,2'-DiCB	4			17.7	0.238	1.48	1.001
2,3-DiCB	5		K	0.244	0.179	1.22	1.197
2,3'-DiCB	6			6.05	0.163	1.51	1.174
2,4-DiCB	7		K	0.754	0.166	2.13	1.156
2,4'-DiCB	8		B	21.1	0.151	1.56	1.206
2,5-DiCB	9			1.23	0.159	1.73	1.144
2,6-DiCB	10			1.45	0.153	1.76	1.013
3,3'-DiCB	11		B	31.8	0.169	1.57	0.969
3,4-DiCB	12	12 + 13	C K	0.961	0.170	4.79	0.985
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.163		
4,4'-DiCB	15			3.83	0.178	1.42	1.000
2,2',3-TriCB	16		B	19.8	0.0744	1.06	1.165
2,2',4-TriCB	17		B	29.9	0.0617	1.04	1.136
2,2',5-TriCB	18	18 + 30	C B	75.2	0.0517	1.05	1.112
2,2',6-TriCB	19			12.8	0.0591	1.04	1.001
2,3,3'-TriCB	20	20 + 28	C B	700	0.0997	1.03	0.848
2,3,4-TriCB	21	21 + 33	C B	72.9	0.0956	1.04	0.857
2,3,4'-TriCB	22		B	109	0.107	1.03	0.873
2,3,5-TriCB	23		U		0.108		
2,3,6-TriCB	24			1.71	0.0489	1.00	1.157
2,3',4-TriCB	25			42.7	0.0904	1.03	0.825
2,3',5-TriCB	26	26 + 29	C	88.4	0.102	1.03	1.299
2,3',6-TriCB	27			16.3	0.0489	1.05	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	264	0.0945	1.03	0.837
2,4',6-TriCB	32		B	52.9	0.0972	1.04	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			1.22	0.104	1.02	1.271
3,3',4-TriCB	35			0.196	0.104	1.04	0.985
3,3',5-TriCB	36		U		0.0953		
3,4,4'-TriCB	37		B	25.8	0.108	1.00	1.001
3,4,5-TriCB	38			2.56	0.0950	1.02	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			2.77	0.0971	0.99	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	354	0.0560	0.77	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			508	0.0586	0.79	1.309
2,2',3,5'-TeCB	43			23.9	0.0708	0.85	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	1780	0.0534	0.78	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	74.3	0.0605	0.78	1.145
2,2',3,6'-TeCB	46			14.7	0.0681	0.80	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	69.7	0.0591	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	1080	0.0507	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	108	0.0601	0.80	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	1950	0.0543	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			0.624	0.0489	0.77	1.001
2,3,3',4'-TeCB	55		U		1.11		
2,3,3',4'-TeCB	56		B	511	1.07	0.78	0.905
2,3,3',5'-TeCB	57			15.7	1.10	0.77	0.843
2,3,3',5'-TeCB	58			17.6	1.09	0.79	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	187	0.0489	0.79	1.300
2,3,4,4'-TeCB	60		B	451	1.08	0.79	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	2430	1.04	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			165	1.02	0.77	0.864
2,3,4',6'-TeCB	64		B	471	0.0489	0.78	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	2580	0.984	0.78	0.884
2,3',4,5'-TeCB	67			51.3	0.974	0.77	0.855
2,3',4,5'-TeCB	68			80.8	1.07	0.77	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			94.4	1.07	0.77	0.821
2,3',5',6'-TeCB	73		U		0.0489		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			148	1.11	0.78	1.000
3,3',4,5'-TeCB	78		U		0.987		
3,3',4,5'-TeCB	79			61.2	0.826	0.76	0.969
3,3',5,5'-TeCB	80		U		0.949		
3,4,4',5'-TeCB	81			6.96	1.02	0.79	1.001
2,2',3,3',4'-PeCB	82			474	0.178	1.58	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	4300	0.168	1.57	0.885
2,2',3,3',6'-PeCB	84		B	738	0.189	1.57	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	1770	0.137	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	3790	0.143	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	744	0.169	1.57	1.155
2,2',3,4,6'-PeCB	89			10.6	0.178	1.59	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	1760	0.168	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	3850	0.166	1.57	1.122
2,2',3,5,6'-PeCB	94			13.8	0.187	1.62	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			3.59	0.0978	1.59	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			109	0.157	1.58	1.093
2,2',4,6,6'-PeCB	104			0.574	0.0916	1.73	1.002
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		9.24		
2,3,3',4',5-PeCB	107	107 + 124	C	266	9.30	1.56	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			1080	8.40	1.56	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			21.6	0.121	1.53	0.945
2,3,3',5,6-PeCB	112		U		0.121		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			152	9.97	1.54	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			139	0.116	1.56	0.958
2,3',4,5',6-PeCB	121			5.41	0.130	1.51	1.199
2',3,3',4,5-PeCB	122			50.1	9.80	1.54	1.011
2',3,4,4',5-PeCB	123			172	9.95	1.57	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			48.8	10.4	1.57	1.000
3,3',4,5,5'-PeCB	127			13.3	8.87	1.58	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	2330	2.55	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			1110	3.24	1.27	0.914
2,2',3,3',4,6-HxCB	131			119	3.05	1.25	1.161
2,2',3,3',4,6'-HxCB	132		B	2060	3.24	1.27	1.176
2,2',3,3',5,5'-HxCB	133			394	2.98	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	525	3.12	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	3940	0.0804	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	631	0.0633	1.25	1.026
2,2',3,4,4',5-HxCB	137			495	2.97	1.25	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	277	2.88	1.26	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			1070	2.84	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		3.25		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			429	0.0819	1.25	1.123
2,2',3,4,6,6'-HxCB	145			1.54	0.0671	1.29	1.036
2,2',3,4',5,5'-HxCB	146		B	3570	2.64	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	6930	2.85	1.26	1.134
2,2',3,4',5,6'-HxCB	148			50.8	0.0853	1.27	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			19.4	0.0652	1.22	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			1.03	0.0607	1.21	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			7.55	0.0535	1.24	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	1830	3.00	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			1380	2.11	1.26	0.938
2,3,3',4,5,5'-HxCB	159			51.5	2.18	1.25	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		2.32		
2,3,3',4',5,5'-HxCB	162			87.3	2.29	1.29	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			540	2.33	1.26	0.922
2,3,3',5,5',6-HxCB	165			27.0	2.53	1.20	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			931	2.07	1.26	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		7.85		
2,2',3,3',4,4',5-HpCB	170		B	2510	0.145	1.04	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	1070	0.148	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			510	0.147	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			1350	0.136	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			208	0.138	1.05	1.103
2,2',3,3',4,6,6'-HpCB	176			278	0.107	1.04	1.035
2,2',3,3',4',5,6-HpCB	177		B	2190	0.139	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			1190	0.140	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179			969	0.105	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			23.6	0.142	1.09	1.157
2,2',3,4,4',5,6'-HpCB	182			36.3	0.134	1.01	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	2760	0.135	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			9.39	0.103	1.02	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.112		
2,2',3,4',5,5',6-HpCB	187		E				
2,2',3,4',5,6,6'-HpCB	188			21.7	0.0966	1.04	1.001
2,3,3',4,4',5,5'-HpCB	189			119	0.382	1.03	1.001
2,3,3',4,4',5,6-HpCB	190			450	0.110	1.04	0.948
2,3,3',4,4',5',6-HpCB	191			119	0.108	1.04	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.122		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1050	0.193	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			299	0.212	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			737	0.105	0.91	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	172	0.0789	0.90	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	1800	0.107	0.90	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			328	0.0780	0.90	1.022
2,2',3,3',5,5',6,6'-OxCB	202			720	0.0880	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			819	0.101	0.89	0.920
2,2',3,4,4',5,6,6'-OxCB	204			1.21	0.0792	1.02	1.038
2,3,3',4,4',5,5',6-OxCB	205			36.9	0.183	0.91	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	561	0.126	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	87.3	0.0949	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			303	0.0871	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	244	0.0489	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-5_Form1A_PB9C_312S9_SJ1077148.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-5

Matrix: TISSUE

Sample Size: 2.14 g (dry)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 16-Oct-2009 Time: 16:51:52

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_312 S: 9

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_312 S: 1

Concentration Units: pg/g (dry weight basis)

% Moisture: 79.0
% Lipid: 1.63

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	12.2	0.234	3.10	1.001
3-MoCB	2		K	1.88	0.270	2.60	0.988
4-MoCB	3		K B	1.64	0.287	4.72	1.000
2,2'-DiCB	4			84.1	1.14	1.48	1.001
2,3-DiCB	5		K	1.17	0.857	1.22	1.197
2,3'-DiCB	6			28.9	0.778	1.51	1.174
2,4-DiCB	7		K	3.60	0.795	2.13	1.156
2,4'-DiCB	8		B	101	0.721	1.56	1.206
2,5-DiCB	9			5.87	0.759	1.73	1.144
2,6-DiCB	10			6.92	0.730	1.76	1.013
3,3'-DiCB	11		B	152	0.810	1.57	0.969
3,4-DiCB	12	12 + 13	C K	4.59	0.810	4.79	0.985
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.778		
4,4'-DiCB	15			18.3	0.849	1.42	1.000
2,2',3-TriCB	16		B	94.3	0.355	1.06	1.165
2,2',4-TriCB	17		B	143	0.294	1.04	1.136
2,2',5-TriCB	18	18 + 30	C B	359	0.247	1.05	1.112
2,2',6-TriCB	19			61.1	0.282	1.04	1.001
2,3,3'-TriCB	20	20 + 28	C B	3340	0.476	1.03	0.848
2,3,4-TriCB	21	21 + 33	C B	348	0.457	1.04	0.857
2,3,4'-TriCB	22		B	520	0.511	1.03	0.873
2,3,5-TriCB	23		U		0.516		
2,3,6-TriCB	24			8.18	0.234	1.00	1.157
2,3',4-TriCB	25			204	0.432	1.03	0.825
2,3',5-TriCB	26	26 + 29	C	422	0.487	1.03	1.299
2,3',6-TriCB	27			77.8	0.234	1.05	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	1260	0.451	1.03	0.837
2,4',6-TriCB	32		B	252	0.464	1.04	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			5.83	0.496	1.02	1.271
3,3',4-TriCB	35			0.935	0.496	1.04	0.985
3,3',5-TriCB	36		U		0.455		
3,4,4'-TriCB	37		B	123	0.516	1.00	1.001
3,4,5-TriCB	38			12.2	0.453	1.02	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			13.2	0.464	0.99	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	1690	0.267	0.77	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			2420	0.280	0.79	1.309
2,2',3,5'-TeCB	43			114	0.338	0.85	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	8490	0.255	0.78	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	354	0.289	0.78	1.145
2,2',3,6'-TeCB	46			70.2	0.325	0.80	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	333	0.282	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	5160	0.242	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	516	0.287	0.80	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	9270	0.259	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			2.98	0.234	0.77	1.001
2,3,3',4'-TeCB	55		U		5.30		
2,3,3',4'-TeCB	56		B	2440	5.11	0.78	0.905
2,3,3',5'-TeCB	57			74.9	5.25	0.77	0.843
2,3,3',5'-TeCB	58			84.1	5.20	0.79	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	896	0.234	0.79	1.300
2,3,4,4'-TeCB	60		B	2150	5.16	0.79	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	11600	4.96	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			787	4.87	0.77	0.864
2,3,4',6'-TeCB	64		B	2250	0.234	0.78	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	12300	4.70	0.78	0.884
2,3',4,5'-TeCB	67			245	4.65	0.77	0.855
2,3',4,5'-TeCB	68			386	5.11	0.77	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			450	5.11	0.77	0.821
2,3',5',6'-TeCB	73		U		0.234		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			707	5.30	0.78	1.000
3,3',4,5'-TeCB	78		U		4.71		
3,3',4,5'-TeCB	79			292	3.94	0.76	0.969
3,3',5,5'-TeCB	80		U		4.53		
3,4,4',5'-TeCB	81			33.2	4.87	0.79	1.001
2,2',3,3',4'-PeCB	82			2260	0.849	1.58	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	20500	0.802	1.57	0.885
2,2',3,3',6'-PeCB	84		B	3520	0.904	1.57	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	8410	0.654	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	18100	0.682	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	3550	0.810	1.57	1.155
2,2',3,4,6'-PeCB	89			50.6	0.849	1.59	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	8410	0.802	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	18400	0.795	1.57	1.122
2,2',3,5,6'-PeCB	94			65.9	0.896	1.62	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			17.1	0.467	1.59	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			520	0.749	1.58	1.093
2,2',4,6,6'-PeCB	104			2.74	0.437	1.73	1.002
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		44.1		
2,3,3',4',5-PeCB	107	107 + 124	C	1270	44.4	1.56	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			5160	40.1	1.56	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			103	0.577	1.53	0.945
2,3,3',5,6-PeCB	112		U		0.577		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			725	47.6	1.54	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			664	0.554	1.56	0.958
2,3',4,5',6-PeCB	121			25.8	0.621	1.51	1.199
2',3,3',4,5-PeCB	122			239	46.7	1.54	1.011
2',3,4,4',5-PeCB	123			818	47.5	1.57	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			233	49.6	1.57	1.000
3,3',4,5,5'-PeCB	127			63.5	42.3	1.58	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	11100	12.2	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			5300	15.5	1.27	0.914
2,2',3,3',4,6-HxCB	131			568	14.6	1.25	1.161
2,2',3,3',4,6'-HxCB	132		B	9820	15.5	1.27	1.176
2,2',3,3',5,5'-HxCB	133			1880	14.3	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	2510	14.9	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	18800	0.384	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	3020	0.302	1.25	1.026
2,2',3,4,4',5-HxCB	137			2360	14.2	1.25	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	1320	13.7	1.26	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			5110	13.6	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		15.5		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			2050	0.391	1.25	1.123
2,2',3,4,6,6'-HxCB	145			7.35	0.320	1.29	1.036
2,2',3,4',5,5'-HxCB	146		B	17100	12.6	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	33100	13.6	1.26	1.134
2,2',3,4',5,6'-HxCB	148			242	0.407	1.27	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			92.7	0.311	1.22	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			4.92	0.290	1.21	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			36.1	0.256	1.24	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	8730	14.3	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			6590	10.1	1.26	0.938
2,3,3',4,5,5'-HxCB	159			246	10.4	1.25	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		11.1		
2,3,3',4',5,5'-HxCB	162			417	10.9	1.29	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			2580	11.1	1.26	0.922
2,3,3',5,5',6-HxCB	165			129	12.1	1.20	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			4440	9.89	1.26	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		37.5		
2,2',3,3',4,4',5-HpCB	170		B	12000	0.692	1.04	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	5110	0.707	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			2430	0.702	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			6440	0.649	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			989	0.659	1.05	1.103
2,2',3,3',4,6'-HpCB	176			1320	0.511	1.04	1.035
2,2',3,3',4',5,6-HpCB	177		B	10400	0.664	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			5680	0.668	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179			4630	0.501	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			113	0.678	1.09	1.157
2,2',3,4,4',5,6'-HpCB	182			173	0.640	1.01	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	13200	0.644	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			44.8	0.492	1.02	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.534		
2,2',3,4',5,5',6-HpCB	187		E				
2,2',3,4',5,6,6'-HpCB	188			104	0.461	1.04	1.001
2,3,3',4,4',5,5'-HpCB	189			568	1.82	1.03	1.001
2,3,3',4,4',5,6-HpCB	190			2150	0.525	1.04	0.948
2,3,3',4,4',5',6-HpCB	191			568	0.516	1.04	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.583		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			5010	0.919	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			1430	1.01	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			3520	0.501	0.91	0.916
2,2',3,3',4,4',6-OxCB	197	197 + 200	C	818	0.376	0.90	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	8570	0.511	0.90	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			1570	0.372	0.90	1.022
2,2',3,3',5,5',6,6'-OxCB	202			3440	0.420	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			3910	0.482	0.89	0.920
2,2',3,4,4',5,6,6'-OxCB	204			5.77	0.378	1.02	1.038
2,3,3',4,4',5,5',6-OxCB	205			176	0.873	0.91	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	2680	0.601	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	417	0.453	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			1450	0.416	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	1170	0.234	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-5_Form1A_PB9C_312S9_SJ1077148_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 16-Oct-2009 Time: 16:51:52

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-5

Sample Size: 0.167 g (lipid)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_312 S: 9

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_312 S: 1

% Moisture: 79.0
% Lipid: 1.63

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	156	3.00	3.10	1.001
3-MoCB	2		K	24.1	3.46	2.60	0.988
4-MoCB	3		K B	21.1	3.68	4.72	1.000
2,2'-DiCB	4			1080	14.6	1.48	1.001
2,3-DiCB	5		K	15.0	11.0	1.22	1.197
2,3'-DiCB	6			371	9.99	1.51	1.174
2,4-DiCB	7		K	46.2	10.2	2.13	1.156
2,4'-DiCB	8		B	1290	9.25	1.56	1.206
2,5-DiCB	9			75.4	9.74	1.73	1.144
2,6-DiCB	10			88.8	9.37	1.76	1.013
3,3'-DiCB	11		B	1950	10.4	1.57	0.969
3,4-DiCB	12	12 + 13	C K	58.9	10.4	4.79	0.985
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		9.99		
4,4'-DiCB	15			235	10.9	1.42	1.000
2,2',3-TriCB	16		B	1210	4.56	1.06	1.165
2,2',4-TriCB	17		B	1830	3.78	1.04	1.136
2,2',5-TriCB	18	18 + 30	C B	4610	3.17	1.05	1.112
2,2',6-TriCB	19			784	3.62	1.04	1.001
2,3,3'-TriCB	20	20 + 28	C B	42900	6.11	1.03	0.848
2,3,4-TriCB	21	21 + 33	C B	4470	5.86	1.04	0.857
2,3,4'-TriCB	22		B	6680	6.56	1.03	0.873
2,3,5-TriCB	23		U		6.62		
2,3,6-TriCB	24			105	3.00	1.00	1.157
2,3',4-TriCB	25			2620	5.54	1.03	0.825
2,3',5-TriCB	26	26 + 29	C	5420	6.25	1.03	1.299
2,3',6-TriCB	27			999	3.00	1.05	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	16200	5.79	1.03	0.837
2,4',6-TriCB	32		B	3240	5.96	1.04	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			74.8	6.37	1.02	1.271
3,3',4-TriCB	35			12.0	6.37	1.04	0.985
3,3',5-TriCB	36		U		5.84		
3,4,4'-TriCB	37		B	1580	6.62	1.00	1.001
3,4,5-TriCB	38			157	5.82	1.02	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			170	5.95	0.99	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	21700	3.43	0.77	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			31100	3.59	0.79	1.309
2,2',3,5'-TeCB	43			1460	4.34	0.85	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	109000	3.27	0.78	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	4550	3.71	0.78	1.145
2,2',3,6'-TeCB	46			901	4.17	0.80	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	4270	3.62	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	66200	3.11	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	6620	3.68	0.80	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	119000	3.33	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			38.2	3.00	0.77	1.001
2,3,3',4'-TeCB	55		U		68.0		
2,3,3',4'-TeCB	56		B	31300	65.6	0.78	0.905
2,3,3',5'-TeCB	57			962	67.4	0.77	0.843
2,3,3',5'-TeCB	58			1080	66.8	0.79	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	11500	3.00	0.79	1.300
2,3,4,4'-TeCB	60		B	27600	66.2	0.79	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	149000	63.7	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			10100	62.5	0.77	0.864
2,3,4',6'-TeCB	64		B	28900	3.00	0.78	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	158000	60.3	0.78	0.884
2,3',4,5'-TeCB	67			3140	59.7	0.77	0.855
2,3',4,5'-TeCB	68			4950	65.6	0.77	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			5780	65.6	0.77	0.821
2,3',5',6'-TeCB	73		U		3.00		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			9070	68.0	0.78	1.000
3,3',4,5'-TeCB	78		U		60.5		
3,3',4,5'-TeCB	79			3750	50.6	0.76	0.969
3,3',5,5'-TeCB	80		U		58.1		
3,4,4',5'-TeCB	81			426	62.5	0.79	1.001
2,2',3,3',4'-PeCB	82			29000	10.9	1.58	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	263000	10.3	1.57	0.885
2,2',3,3',6'-PeCB	84		B	45200	11.6	1.57	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	108000	8.39	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	232000	8.76	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	45600	10.4	1.57	1.155
2,2',3,4,6'-PeCB	89			649	10.9	1.59	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	108000	10.3	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	236000	10.2	1.57	1.122
2,2',3,5,6'-PeCB	94			846	11.5	1.62	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			220	5.99	1.59	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			6680	9.62	1.58	1.093
2,2',4,6,6'-PeCB	104			35.2	5.61	1.73	1.002
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		566		
2,3,3',4',5-PeCB	107	107 + 124	C	16300	570	1.56	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			66200	515	1.56	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			1320	7.41	1.53	0.945
2,3,3',5,6-PeCB	112		U		7.41		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			9310	611	1.54	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			8520	7.11	1.56	0.958
2,3',4,5',6-PeCB	121			331	7.97	1.51	1.199
2',3,3',4,5-PeCB	122			3070	600	1.54	1.011
2',3,4,4',5-PeCB	123			10500	610	1.57	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			2990	637	1.57	1.000
3,3',4,5,5'-PeCB	127			815	543	1.58	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	143000	156	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			68000	199	1.27	0.914
2,2',3,3',4,6-HxCB	131			7290	187	1.25	1.161
2,2',3,3',4,6'-HxCB	132		B	126000	199	1.27	1.176
2,2',3,3',5,5'-HxCB	133			24100	183	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	32200	191	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	241000	4.93	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	38700	3.88	1.25	1.026
2,2',3,4,4',5-HxCB	137			30300	182	1.25	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	17000	176	1.26	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			65600	174	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		199		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			26300	5.02	1.25	1.123
2,2',3,4,6,6'-HxCB	145			94.4	4.11	1.29	1.036
2,2',3,4',5,5'-HxCB	146		B	219000	162	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	425000	175	1.26	1.134
2,2',3,4',5,6'-HxCB	148			3110	5.23	1.27	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			1190	3.99	1.22	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			63.1	3.72	1.21	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			463	3.28	1.24	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	112000	184	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			84600	129	1.26	0.938
2,3,3',4,5,5'-HxCB	159			3160	134	1.25	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		142		
2,3,3',4',5,5'-HxCB	162			5350	140	1.29	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			33100	143	1.26	0.922
2,3,3',5,5',6-HxCB	165			1650	155	1.20	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			57000	127	1.26	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		481		
2,2',3,3',4,4',5-HpCB	170		B	154000	8.88	1.04	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	65600	9.07	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			31200	9.01	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			82700	8.33	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			12700	8.46	1.05	1.103
2,2',3,3',4,6,6'-HpCB	176			17000	6.56	1.04	1.035
2,2',3,3',4',5,6-HpCB	177		B	134000	8.52	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			72900	8.58	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179			59400	6.43	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			1450	8.70	1.09	1.157
2,2',3,4,4',5,6'-HpCB	182			2220	8.21	1.01	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	169000	8.27	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			575	6.31	1.02	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		6.86		
2,2',3,4',5,5',6-HpCB	187		E				
2,2',3,4',5,6,6'-HpCB	188			1330	5.92	1.04	1.001
2,3,3',4,4',5,5'-HpCB	189			7290	23.4	1.03	1.001
2,3,3',4,4',5,6-HpCB	190			27600	6.74	1.04	0.948
2,3,3',4,4',5',6-HpCB	191			7290	6.62	1.04	0.918
2,3,3',4,5,5',6-HpCB	192		U		7.48		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			64300	11.8	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			18300	13.0	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			45200	6.43	0.91	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	10500	4.83	0.90	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	110000	6.56	0.90	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			20100	4.78	0.90	1.022
2,2',3,3',5,5',6,6'-OxCB	202			44100	5.39	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			50200	6.19	0.89	0.920
2,2',3,4,4',5,6,6'-OxCB	204			74.1	4.85	1.02	1.038
2,3,3',4,4',5,5',6-OxCB	205			2260	11.2	0.91	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	34400	7.72	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	5350	5.81	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			18600	5.34	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	15000	3.00	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-5_Form1A_PB9C_312S9_SJ1077148_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 26-Nov-2009 Time: 02:50:35

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 10

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-5 W

Sample Size: 10.2 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_359 S: 7

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_359 S: 1

% Moisture: 79.0
% Lipid: 1.63

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	7500	2.20	1.55	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	3640	19.7	1.54	1.000
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	5790	1.92	1.57	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	9830	17.6	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	19400	28.1	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	21900	24.2	1.24	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	6580	1.06	1.04	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	7730	1.15	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6'-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6'-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6'-OxCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 26-Nov-2009 Time: 02:50:35

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 10

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-5 W

Sample Size: 2.14 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_359 S: 7

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_359 S: 1

% Moisture: 79.0
% Lipid: 1.63

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	35800	10.5	1.55	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	17400	94.3	1.54	1.000
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	27700	9.19	1.57	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	46900	84.1	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	92700	134	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	104000	115	1.24	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	31400	5.06	1.04	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	36900	5.49	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6'-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6'-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6'-OxCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 26-Nov-2009 Time: 02:50:35

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 10

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-5 W
Sample Size: 0.167 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_359 S: 7
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_359 S: 1
% Moisture: 79.0
% Lipid: 1.63

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	460000	135	1.55	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	223000	1210	1.54	1.000
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	355000	118	1.57	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	602000	1080	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	1190000	1720	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	1340000	1480	1.24	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	403000	64.9	1.04	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	474000	70.5	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6'-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6'-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6'-OxCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-5_Form1A_PB9C_359S7_SJ1084468_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 16-Oct-2009 Time: 16:51:52
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-5
Sample Size: 10.2 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_312 S: 9
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_312 S: 1
% Moisture: 79.0
% Lipid: 1.63

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	782	39.1	3.23	0.721
13C12-4-MoCB	3L			2000	817	40.9	3.16	0.859
13C12-2,2'-DiCB	4L			2000	1100	54.9	1.58	0.875
13C12-4,4'-DiCB	15L			2000	1220	61.2	1.59	1.253
13C12-2,2',6-TriCB	19L			2000	1560	78.1	1.04	1.072
13C12-3,4,4'-TriCB	37L			2000	1280	64.0	1.05	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1350	67.5	0.79	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1780	89.0	0.78	1.396
13C12-3,4,4',5-TeCB	81L			2000	1900	95.1	0.79	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1480	73.9	1.57	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1720	86.0	1.58	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1620	81.1	1.59	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1730	86.4	1.59	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1740	86.9	1.57	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1850	92.7	1.57	1.301
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1520	75.9	1.26	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	3630	90.7	1.29	1.107
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1790	89.3	1.30	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1970	98.4	1.30	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1790	89.5	1.06	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1800	90.1	1.06	0.873
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1400	69.9	1.04	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1640	82.0	1.05	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1600	79.9	0.92	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1570	78.4	0.93	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2060	103	0.80	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1660	82.8	0.78	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1800	90.2	1.22	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1340	67.1	1.05	0.924
13C12-2,3,3',5,5'-PeCB	111L			2000	1840	92.0	1.59	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1880	94.0	1.06	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River- 6 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 26-Nov-2009 Time: 02:50:35
Extract Volume (uL): 200
Injection Volume (uL): 1.0
Dilution Factor: 10
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-5 W
Sample Size: 10.2 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_359 S: 7
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_359 S: 1
% Moisture: 79.0
% Lipid: 1.63

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L		X					
13C12-4-MoCB	3L		X					
13C12-2,2'-DiCB	4L		X					
13C12-4,4'-DiCB	15L		X					
13C12-2,2',6-TriCB	19L		X					
13C12-3,4,4'-TriCB	37L		X					
13C12-2,2',6,6'-TeCB	54L		X					
13C12-3,3',4,4'-TeCB	77L		X					
13C12-3,4,4',5-TeCB	81L		X					
13C12-2,2',4,6,6'-PeCB	104L		D	2000	1750	87.6	1.78	0.809
13C12-2,3,3',4,4'-PeCB	105L		D	2000	1440	71.8	1.57	1.201
13C12-2,3,4,4',5-PeCB	114L		D	2000	1330	66.7	1.73	1.179
13C12-2,3',4,4',5-PeCB	118L		D	2000	1570	78.3	1.62	1.162
13C12-2',3,4,4',5-PeCB	123L		D	2000	1410	70.4	1.61	1.151
13C12-3,3',4,4',5-PeCB	126L		D	2000	1290	64.5	1.58	1.302
13C12-2,2',4,4',6,6'-HxCB	155L		D	2000	1800	89.8	1.30	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C D	4000	2960	74.0	1.35	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L		D	2000	1560	78.0	1.28	1.078
13C12-3,3',4,4',5,5'-HxCB	169L		D	2000	1480	73.8	1.19	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L		D	2000	1770	88.5	1.16	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L		D	2000	1760	87.9	1.11	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L		D	2000	2100	105	0.99	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L		D	2000	1340	66.9	1.05	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L		X					
13C12-2,3,3',4,4',5,5',6-OxCB	205L		X					
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L		X					
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L		X					
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L		X					
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L		X					
13C12-2,3,3',5,5'-PeCB	111L		X					
13C12-2,2',3,3',5,5',6-HpCB	178L		X					

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; D = dilution data; C = co-eluting congener; X = result reported separately.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 29-Oct-2009 Time: 22:17:51

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-6 (A)

Sample Size: 11.0 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 3

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 80.3
% Lipid: 1.26

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	1.16	0.0471	2.88	1.001
3-MoCB	2			0.264	0.0548	3.42	0.988
4-MoCB	3		B	0.364	0.0557	3.55	1.001
2,2'-DiCB	4			7.50	0.288	1.48	1.001
2,3-DiCB	5		U		0.210		
2,3'-DiCB	6			2.83	0.184	1.45	1.174
2,4-DiCB	7		K	0.442	0.190	2.12	1.156
2,4'-DiCB	8		B	11.0	0.169	1.58	1.205
2,5-DiCB	9			0.711	0.186	1.51	1.144
2,6-DiCB	10			0.324	0.175	1.74	1.013
3,3'-DiCB	11		B	7.04	0.212	1.54	0.968
3,4-DiCB	12	12 + 13	C K	0.518	0.212	3.12	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.203		
4,4'-DiCB	15			2.24	0.225	1.69	1.001
2,2',3-TriCB	16		B	11.5	0.0614	1.09	1.165
2,2',4-TriCB	17		B	18.1	0.0527	1.09	1.136
2,2',5-TriCB	18	18 + 30	C B	55.9	0.0455	1.07	1.112
2,2',6-TriCB	19			5.81	0.0553	1.11	1.001
2,3,3'-TriCB	20	20 + 28	C B	287	0.0810	1.02	0.848
2,3,4-TriCB	21	21 + 33	C B	43.2	0.0731	1.02	0.857
2,3,4'-TriCB	22		B	54.3	0.0880	1.04	0.872
2,3,5-TriCB	23		K	0.096	0.0784	1.30	1.279
2,3,6-TriCB	24			0.897	0.0455	1.10	1.157
2,3',4-TriCB	25			20.0	0.0652	1.01	0.824
2,3',5-TriCB	26	26 + 29	C	45.7	0.0776	1.01	1.298
2,3',6-TriCB	27			7.84	0.0455	1.07	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	138	0.0728	1.01	0.836
2,4',6-TriCB	32		B	26.3	0.0709	1.01	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			0.756	0.0788	1.09	1.271
3,3',4-TriCB	35		U		0.101		
3,3',5-TriCB	36		U		0.0837		
3,4,4'-TriCB	37		B	15.7	0.0923	0.98	1.001
3,4,5-TriCB	38			1.34	0.0829	1.00	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			1.82	0.0844	1.19	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	185	0.0496	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			147	0.0501	0.80	1.310
2,2',3,5'-TeCB	43			19.8	0.0535	0.86	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	686	0.0455	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	51.8	0.0459	0.80	1.146
2,2',3,6'-TeCB	46			10.1	0.0520	0.77	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	45.4	0.0492	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	402	0.0455	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	62.5	0.0455	0.81	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	1000	0.0461	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			0.416	0.0455	0.78	1.001
2,3,3',4'-TeCB	55		U		1.06		
2,3,3',4'-TeCB	56		B	191	1.08	0.76	0.905
2,3,3',5'-TeCB	57			6.25	0.973	0.81	0.843
2,3,3',5'-TeCB	58			4.58	0.984	0.79	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	72.7	0.0455	0.80	1.300
2,3,4,4'-TeCB	60		B	213	1.10	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	1010	0.968	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			61.1	0.981	0.77	0.864
2,3,4',6'-TeCB	64		B	265	0.0455	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	863	0.990	0.76	0.884
2,3',4,5'-TeCB	67			18.8	0.858	0.80	0.856
2,3',4,5'-TeCB	68			20.7	0.945	0.81	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			27.1	0.932	0.76	0.822
2,3',5',6'-TeCB	73		U		0.0455		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			69.2	1.06	0.79	1.000
3,3',4,5'-TeCB	78		U		1.12		
3,3',4,5'-TeCB	79			19.1	0.885	0.73	0.969
3,3',5,5'-TeCB	80		U		0.973		
3,4,4',5'-TeCB	81			2.21	1.11	0.78	1.000
2,2',3,3',4'-PeCB	82			133	0.198	1.59	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	1250	0.185	1.58	0.885
2,2',3,3',6'-PeCB	84		B	277	0.196	1.58	1.163
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	550	0.154	1.59	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	1260	0.156	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	283	0.173	1.59	1.154
2,2',3,4,6'-PeCB	89			6.97	0.184	1.63	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	2850	0.154	1.59	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	618	0.184	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	1530	0.166	1.58	1.120
2,2',3,5,6'-PeCB	94			8.06	0.184	1.60	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			3.02	0.0459	1.66	1.016
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			32.8	0.154	1.58	1.093
2,2',4,6,6'-PeCB	104			0.381	0.0455	1.65	1.001
2,3,3',4,4'-PeCB	105		B	1020	4.30	1.52	1.000
2,3,3',4,5-PeCB	106		U		4.04		
2,3,3',4',5-PeCB	107	107 + 124	C	77.5	4.32	1.50	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			310	4.47	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	2280	0.136	1.58	0.925
2,3,3',5,5'-PeCB	111			6.95	0.135	1.44	0.945
2,3,3',5,6-PeCB	112		U		0.130		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			49.1	4.69	1.59	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	2470	3.66	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			33.1	0.126	1.57	0.958
2,3',4,5',6-PeCB	121			2.41	0.137	1.49	1.197
2',3,3',4,5-PeCB	122			13.9	4.75	1.65	1.010
2',3,4,4',5-PeCB	123			47.3	4.79	1.55	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			12.1	5.92	1.55	1.000
3,3',4,5,5'-PeCB	127			6.22	4.58	1.53	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	886	4.58	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	6210	4.45	1.26	0.929
2,2',3,3',4,5'-HxCB	130			331	5.67	1.26	0.914
2,2',3,3',4,6-HxCB	131			30.3	5.19	1.22	1.161
2,2',3,3',4,6'-HxCB	132		B	815	5.47	1.26	1.176
2,2',3,3',5,5'-HxCB	133			136	5.03	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	175	5.20	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1420	0.0904	1.27	1.105
2,2',3,3',6,6'-HxCB	136		B	275	0.0687	1.25	1.026
2,2',3,4,4',5-HxCB	137			165	5.55	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	95.3	4.77	1.23	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			427	4.91	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		5.39		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			142	0.0909	1.27	1.122
2,2',3,4,6,6'-HxCB	145		K	0.696	0.0723	1.94	1.035
2,2',3,4',5,5'-HxCB	146		B	1360	4.58	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	3050	4.54	1.26	1.134
2,2',3,4',5,6'-HxCB	148			18.7	0.0950	1.37	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			9.06	0.0694	1.25	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.833	0.0646	1.22	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	7880	3.87	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			18.2	0.0523	1.24	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	491	5.20	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			403	3.49	1.26	0.938
2,3,3',4,5,5'-HxCB	159			27.7	3.80	1.28	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		3.79		
2,3,3',4',5,5'-HxCB	162			23.4	3.81	1.31	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			189	3.75	1.25	0.922
2,3,3',5,5',6-HxCB	165			8.53	4.15	1.37	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			240	3.76	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		6.46		
2,2',3,3',4,4',5-HpCB	170		B	684	0.136	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	266	0.148	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			153	0.149	1.03	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			468	0.128	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			54.7	0.135	1.07	1.102
2,2',3,3',4,6,6'-HpCB	176			85.8	0.0997	1.04	1.035
2,2',3,3',4',5,6-HpCB	177		B	615	0.133	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			380	0.138	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			336	0.0965	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	2280	0.110	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			7.76	0.143	0.98	1.156
2,2',3,4,4',5,6'-HpCB	182			13.2	0.132	1.06	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	848	0.136	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			13.9	0.0993	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.111		
2,2',3,4',5,5',6-HpCB	187		B	2860	0.130	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			11.7	0.0937	1.05	1.001
2,3,3',4,4',5,5'-HpCB	189			35.3	0.277	0.96	1.001
2,3,3',4,4',5,6-HpCB	190			151	0.110	1.05	0.947
2,3,3',4,4',5',6-HpCB	191			33.5	0.0979	1.06	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.125		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			391	0.283	0.89	0.992
2,2',3,3',4,4',5,6-OxCB	195			152	0.310	0.88	0.946
2,2',3,3',4,4',5,6'-OxCB	196			305	0.125	0.90	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	69.1	0.0933	0.89	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	793	0.129	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			131	0.0932	0.92	1.023
2,2',3,3',5,5',6,6'-OxCB	202			348	0.0915	0.92	1.001
2,2',3,4,4',5,5',6-OxCB	203			480	0.124	0.90	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	1.21	0.0952	0.71	1.039
2,3,3',4,4',5,5',6-OxCB	205			15.7	0.307	0.89	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	285	0.148	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	51.8	0.107	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			178	0.0939	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	187	0.115	0.71	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-6_Form1A_PB9C_330S3_SJ1077645.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-6 (A)
Sample Size: 2.17 g (dry)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 3
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 80.3
% Lipid: 1.26

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 29-Oct-2009 Time: 22:17:51
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	5.88	0.239	2.88	1.001
3-MoCB	2			1.34	0.278	3.42	0.988
4-MoCB	3		B	1.85	0.282	3.55	1.001
2,2'-DiCB	4			38.0	1.46	1.48	1.001
2,3-DiCB	5		U		1.06		
2,3'-DiCB	6			14.3	0.930	1.45	1.174
2,4-DiCB	7		K	2.24	0.962	2.12	1.156
2,4'-DiCB	8		B	55.8	0.860	1.58	1.205
2,5-DiCB	9			3.60	0.943	1.51	1.144
2,6-DiCB	10			1.64	0.885	1.74	1.013
3,3'-DiCB	11		B	35.7	1.08	1.54	0.968
3,4-DiCB	12	12 + 13	C K	2.62	1.08	3.12	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.03		
4,4'-DiCB	15			11.3	1.14	1.69	1.001
2,2',3-TriCB	16		B	58.3	0.311	1.09	1.165
2,2',4-TriCB	17		B	91.7	0.267	1.09	1.136
2,2',5-TriCB	18	18 + 30	C B	283	0.231	1.07	1.112
2,2',6-TriCB	19			29.4	0.280	1.11	1.001
2,3,3'-TriCB	20	20 + 28	C B	1450	0.411	1.02	0.848
2,3,4-TriCB	21	21 + 33	C B	219	0.371	1.02	0.857
2,3,4'-TriCB	22		B	275	0.446	1.04	0.872
2,3,5-TriCB	23		K	0.487	0.397	1.30	1.279
2,3,6-TriCB	24			4.55	0.231	1.10	1.157
2,3',4-TriCB	25			101	0.331	1.01	0.824
2,3',5-TriCB	26	26 + 29	C	232	0.394	1.01	1.298
2,3',6-TriCB	27			39.7	0.231	1.07	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	701	0.369	1.01	0.836
2,4',6-TriCB	32		B	133	0.359	1.01	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			3.83	0.399	1.09	1.271
3,3',4-TriCB	35		U		0.512		
3,3',5-TriCB	36		U		0.424		
3,4,4'-TriCB	37		B	79.6	0.468	0.98	1.001
3,4,5-TriCB	38			6.81	0.420	1.00	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			9.23	0.428	1.19	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	936	0.252	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			745	0.254	0.80	1.310
2,2',3,5'-TeCB	43			101	0.271	0.86	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	3480	0.231	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	262	0.232	0.80	1.146
2,2',3,6'-TeCB	46			51.2	0.264	0.77	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	230	0.250	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	2040	0.231	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	317	0.231	0.81	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	5070	0.234	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			2.11	0.231	0.78	1.001
2,3,3',4'-TeCB	55		U		5.38		
2,3,3',4'-TeCB	56		B	968	5.48	0.76	0.905
2,3,3',5'-TeCB	57			31.7	4.93	0.81	0.843
2,3,3',5'-TeCB	58			23.2	4.99	0.79	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	369	0.231	0.80	1.300
2,3,4,4'-TeCB	60		B	1080	5.58	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	5120	4.90	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			310	4.97	0.77	0.864
2,3,4',6'-TeCB	64		B	1340	0.231	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	4380	5.02	0.76	0.884
2,3',4,5'-TeCB	67			95.5	4.35	0.80	0.856
2,3',4,5'-TeCB	68			105	4.79	0.81	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			138	4.73	0.76	0.822
2,3',5',6'-TeCB	73		U		0.231		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			351	5.38	0.79	1.000
3,3',4,5'-TeCB	78		U		5.67		
3,3',4,5'-TeCB	79			96.8	4.48	0.73	0.969
3,3',5,5'-TeCB	80		U		4.93		
3,4,4',5'-TeCB	81			11.2	5.63	0.78	1.000
2,2',3,3',4'-PeCB	82			675	1.01	1.59	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	6340	0.936	1.58	0.885
2,2',3,3',6'-PeCB	84		B	1400	0.994	1.58	1.163
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	2790	0.783	1.59	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	6370	0.790	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	1430	0.879	1.59	1.154
2,2',3,4,6'-PeCB	89			35.3	0.930	1.63	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	14500	0.783	1.59	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	3130	0.930	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	7770	0.841	1.58	1.120
2,2',3,5,6'-PeCB	94			40.9	0.930	1.60	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			15.3	0.232	1.66	1.016
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			166	0.783	1.58	1.093
2,2',4,6,6'-PeCB	104			1.93	0.231	1.65	1.001
2,3,3',4,4'-PeCB	105		B	5170	21.8	1.52	1.000
2,3,3',4,5-PeCB	106		U		20.5		
2,3,3',4',5-PeCB	107	107 + 124	C	393	21.9	1.50	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			1570	22.7	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	11500	0.688	1.58	0.925
2,3,3',5,5'-PeCB	111			35.2	0.681	1.44	0.945
2,3,3',5,6-PeCB	112		U		0.656		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			249	23.8	1.59	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	12500	18.5	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			167	0.637	1.57	0.958
2,3',4,5',6-PeCB	121			12.2	0.694	1.49	1.197
2',3,3',4,5-PeCB	122			70.7	24.1	1.65	1.010
2',3,4,4',5-PeCB	123			239	24.3	1.55	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			61.3	30.0	1.55	1.000
3,3',4,5,5'-PeCB	127			31.5	23.2	1.53	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	4490	23.2	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	31500	22.5	1.26	0.929
2,2',3,3',4,5'-HxCB	130			1670	28.7	1.26	0.914
2,2',3,3',4,6-HxCB	131			153	26.3	1.22	1.161
2,2',3,3',4,6'-HxCB	132		B	4130	27.7	1.26	1.176
2,2',3,3',5,5'-HxCB	133			688	25.5	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	885	26.4	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	7200	0.459	1.27	1.105
2,2',3,3',6,6'-HxCB	136		B	1390	0.348	1.25	1.026
2,2',3,4,4',5-HxCB	137			834	28.1	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	483	24.2	1.23	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			2170	24.9	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		27.3		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			720	0.461	1.27	1.122
2,2',3,4,6,6'-HxCB	145		K	3.53	0.366	1.94	1.035
2,2',3,4',5,5'-HxCB	146		B	6880	23.2	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	15500	23.0	1.26	1.134
2,2',3,4',5,6'-HxCB	148			94.9	0.481	1.37	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			45.9	0.352	1.25	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			4.22	0.327	1.22	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	39900	19.6	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			92.3	0.265	1.24	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	2490	26.4	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			2040	17.7	1.26	0.938
2,3,3',4,5,5'-HxCB	159			140	19.2	1.28	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		19.2		
2,3,3',4',5,5'-HxCB	162			118	19.3	1.31	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			955	19.0	1.25	0.922
2,3,3',5,5',6-HxCB	165			43.2	21.0	1.37	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			1220	19.0	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		32.7		
2,2',3,3',4,4',5-HpCB	170		B	3460	0.688	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	1350	0.752	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			777	0.758	1.03	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			2380	0.650	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			277	0.681	1.07	1.102
2,2',3,3',4,6'-HpCB	176			435	0.506	1.04	1.035
2,2',3,3',4',5,6-HpCB	177		B	3120	0.675	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			1920	0.701	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			1700	0.489	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	11500	0.558	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			39.4	0.726	0.98	1.156
2,2',3,4,4',5,6'-HpCB	182			66.9	0.669	1.06	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	4300	0.688	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			70.7	0.503	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.563		
2,2',3,4',5,5',6-HpCB	187		B	14500	0.656	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			59.3	0.475	1.05	1.001
2,3,3',4,4',5,5'-HpCB	189			179	1.40	0.96	1.001
2,3,3',4,4',5,6-HpCB	190			764	0.558	1.05	0.947
2,3,3',4,4',5',6-HpCB	191			170	0.496	1.06	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.634		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1980	1.43	0.89	0.992
2,2',3,3',4,4',5,6-OxCB	195			771	1.57	0.88	0.946
2,2',3,3',4,4',5,6'-OxCB	196			1550	0.634	0.90	0.915
2,2',3,3',4,4',6-OxCB	197	197 + 200	C	350	0.473	0.89	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	4020	0.656	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			662	0.473	0.92	1.023
2,2',3,3',5,5',6,6'-OxCB	202			1760	0.464	0.92	1.001
2,2',3,4,4',5,5',6-OxCB	203			2430	0.629	0.90	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	6.13	0.483	0.71	1.039
2,3,3',4,4',5,5',6-OxCB	205			79.6	1.55	0.89	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	1450	0.752	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	262	0.543	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			904	0.476	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	949	0.583	0.71	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-6_Form1A_PB9C_330S3_SJ1077645_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 29-Oct-2009 Time: 22:17:51

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-6 (A)
Sample Size: 0.138 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 3
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 80.3
% Lipid: 1.26

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	92.3	3.75	2.88	1.001
3-MoCB	2			21.0	4.36	3.42	0.988
4-MoCB	3		B	29.0	4.43	3.55	1.001
2,2'-DiCB	4			597	22.9	1.48	1.001
2,3-DiCB	5		U		16.7		
2,3'-DiCB	6			225	14.6	1.45	1.174
2,4-DiCB	7		K	35.2	15.1	2.12	1.156
2,4'-DiCB	8		B	876	13.5	1.58	1.205
2,5-DiCB	9			56.6	14.8	1.51	1.144
2,6-DiCB	10			25.8	13.9	1.74	1.013
3,3'-DiCB	11		B	560	16.9	1.54	0.968
3,4-DiCB	12	12 + 13	C K	41.2	16.9	3.12	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		16.2		
4,4'-DiCB	15			178	17.9	1.69	1.001
2,2',3-TriCB	16		B	915	4.89	1.09	1.165
2,2',4-TriCB	17		B	1440	4.19	1.09	1.136
2,2',5-TriCB	18	18 + 30	C B	4450	3.62	1.07	1.112
2,2',6-TriCB	19			462	4.40	1.11	1.001
2,3,3'-TriCB	20	20 + 28	C B	22800	6.45	1.02	0.848
2,3,4-TriCB	21	21 + 33	C B	3440	5.82	1.02	0.857
2,3,4'-TriCB	22		B	4320	7.00	1.04	0.872
2,3,5-TriCB	23		K	7.64	6.24	1.30	1.279
2,3,6-TriCB	24			71.4	3.62	1.10	1.157
2,3',4-TriCB	25			1590	5.19	1.01	0.824
2,3',5-TriCB	26	26 + 29	C	3640	6.18	1.01	1.298
2,3',6-TriCB	27			624	3.62	1.07	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	11000	5.79	1.01	0.836
2,4',6-TriCB	32		B	2090	5.64	1.01	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			60.2	6.27	1.09	1.271
3,3',4-TriCB	35		U		8.04		
3,3',5-TriCB	36		U		6.66		
3,4,4'-TriCB	37		B	1250	7.35	0.98	1.001
3,4,5-TriCB	38			107	6.60	1.00	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			145	6.72	1.19	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	14700	3.95	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			11700	3.99	0.80	1.310
2,2',3,5'-TeCB	43			1580	4.26	0.86	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	54600	3.62	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	4120	3.65	0.80	1.146
2,2',3,6'-TeCB	46			804	4.14	0.77	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	3610	3.92	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	32000	3.62	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	4970	3.62	0.81	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	79600	3.67	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			33.1	3.62	0.78	1.001
2,3,3',4'-TeCB	55		U		84.4		
2,3,3',4'-TeCB	56		B	15200	86.0	0.76	0.905
2,3,3',5'-TeCB	57			497	77.4	0.81	0.843
2,3,3',5'-TeCB	58			365	78.3	0.79	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	5790	3.62	0.80	1.300
2,3,4,4'-TeCB	60		B	17000	87.6	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	80400	77.0	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			4860	78.1	0.77	0.864
2,3,4',6'-TeCB	64		B	21100	3.62	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	68700	78.8	0.76	0.884
2,3',4,5'-TeCB	67			1500	68.3	0.80	0.856
2,3',4,5'-TeCB	68			1650	75.2	0.81	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			2160	74.2	0.76	0.822
2,3',5',6'-TeCB	73		U		3.62		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			5510	84.4	0.79	1.000
3,3',4,5'-TeCB	78		U		89.1		
3,3',4,5'-TeCB	79			1520	70.4	0.73	0.969
3,3',5,5'-TeCB	80		U		77.4		
3,4,4',5'-TeCB	81			176	88.4	0.78	1.000
2,2',3,3',4'-PeCB	82			10600	15.8	1.59	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	99500	14.7	1.58	0.885
2,2',3,3',6'-PeCB	84		B	22000	15.6	1.58	1.163
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	43800	12.3	1.59	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	100000	12.4	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	22500	13.8	1.59	1.154
2,2',3,4,6'-PeCB	89			555	14.6	1.63	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	227000	12.3	1.59	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	49200	14.6	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	122000	13.2	1.58	1.120
2,2',3,5,6'-PeCB	94			642	14.6	1.60	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			240	3.65	1.66	1.016
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			2610	12.3	1.58	1.093
2,2',4,6,6'-PeCB	104			30.3	3.62	1.65	1.001
2,3,3',4,4'-PeCB	105		B	81200	342	1.52	1.000
2,3,3',4,5-PeCB	106		U		322		
2,3,3',4',5-PeCB	107	107 + 124	C	6170	344	1.50	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			24700	356	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	181000	10.8	1.58	0.925
2,3,3',5,5'-PeCB	111			553	10.7	1.44	0.945
2,3,3',5,6-PeCB	112		U		10.3		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			3910	373	1.59	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	197000	291	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			2630	10.0	1.57	0.958
2,3',4,5',6-PeCB	121			192	10.9	1.49	1.197
2',3,3',4,5-PeCB	122			1110	378	1.65	1.010
2',3,4,4',5-PeCB	123			3760	381	1.55	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			963	471	1.55	1.000
3,3',4,5,5'-PeCB	127			495	365	1.53	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	70500	365	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	494000	354	1.26	0.929
2,2',3,3',4,5'-HxCB	130			26300	451	1.26	0.914
2,2',3,3',4,6-HxCB	131			2410	413	1.22	1.161
2,2',3,3',4,6'-HxCB	132		B	64900	435	1.26	1.176
2,2',3,3',5,5'-HxCB	133			10800	400	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	13900	414	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	113000	7.20	1.27	1.105
2,2',3,3',6,6'-HxCB	136		B	21900	5.47	1.25	1.026
2,2',3,4,4',5-HxCB	137			13100	442	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	7590	380	1.23	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			34000	391	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		429		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			11300	7.24	1.27	1.122
2,2',3,4,6,6'-HxCB	145		K	55.4	5.75	1.94	1.035
2,2',3,4',5,5'-HxCB	146		B	108000	365	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	243000	361	1.26	1.134
2,2',3,4',5,6'-HxCB	148			1490	7.56	1.37	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			721	5.52	1.25	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			66.3	5.14	1.22	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	627000	308	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			1450	4.16	1.24	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	39100	414	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			32100	278	1.26	0.938
2,3,3',4,5,5'-HxCB	159			2200	302	1.28	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		302		
2,3,3',4',5,5'-HxCB	162			1860	303	1.31	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			15000	298	1.25	0.922
2,3,3',5,5',6-HxCB	165			679	330	1.37	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			19100	299	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		514		
2,2',3,3',4,4',5-HpCB	170		B	54400	10.8	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	21200	11.8	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			12200	11.9	1.03	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			37300	10.2	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			4350	10.7	1.07	1.102
2,2',3,3',4,6'-HpCB	176			6830	7.94	1.04	1.035
2,2',3,3',4',5,6-HpCB	177		B	49000	10.6	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			30200	11.0	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			26700	7.68	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	181000	8.76	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			618	11.4	0.98	1.156
2,2',3,4,4',5,6'-HpCB	182			1050	10.5	1.06	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	67500	10.8	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			1110	7.90	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		8.84		
2,2',3,4',5,5',6-HpCB	187		B	228000	10.3	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			931	7.46	1.05	1.001
2,3,3',4,4',5,5'-HpCB	189			2810	22.0	0.96	1.001
2,3,3',4,4',5,6-HpCB	190			12000	8.76	1.05	0.947
2,3,3',4,4',5',6-HpCB	191			2670	7.79	1.06	0.918
2,3,3',4,5,5',6-HpCB	192		U		9.95		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			31100	22.5	0.89	0.992
2,2',3,3',4,4',5,6-OxCB	195			12100	24.7	0.88	0.946
2,2',3,3',4,4',5,6'-OxCB	196			24300	9.95	0.90	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	5500	7.43	0.89	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	63100	10.3	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			10400	7.42	0.92	1.023
2,2',3,3',5,5',6,6'-OxCB	202			27700	7.28	0.92	1.001
2,2',3,4,4',5,5',6-OxCB	203			38200	9.87	0.90	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	96.3	7.58	0.71	1.039
2,3,3',4,4',5,5',6-OxCB	205			1250	24.4	0.89	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	22700	11.8	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	4120	8.52	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			14200	7.47	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	14900	9.15	0.71	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-6_Form1A_PB9C_330S3_SJ1077645_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 29-Oct-2009 Time: 22:17:51
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-6 (A)
Sample Size: 11.0 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 3
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 80.3
% Lipid: 1.26

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	900	45.0	3.29	0.721
13C12-4-MoCB	3L			2000	1040	51.9	3.18	0.859
13C12-2,2'-DiCB	4L			2000	1060	53.0	1.59	0.875
13C12-4,4'-DiCB	15L			2000	1090	54.5	1.57	1.253
13C12-2,2',6-TriCB	19L			2000	1130	56.6	1.07	1.072
13C12-3,4,4'-TriCB	37L			2000	1170	58.6	1.04	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1350	67.4	0.80	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1210	60.3	0.80	1.397
13C12-3,4,4',5-TeCB	81L			2000	1190	59.4	0.81	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1270	63.6	1.65	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1130	56.6	1.58	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1030	51.4	1.58	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1260	62.9	1.55	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1070	53.3	1.55	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1010	50.7	1.55	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1350	67.7	1.26	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2430	60.7	1.31	1.107
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1240	62.2	1.31	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1370	68.6	1.28	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1750	87.5	1.07	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	2100	105	1.10	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1940	96.8	1.07	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1780	89.2	1.05	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	2100	105	0.89	0.817
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1350	67.5	0.94	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2760	138	0.85	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	2310	116	0.81	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	2120	106	1.19	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1390	69.4	1.04	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1450	72.7	1.59	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1370	68.4	1.05	1.011

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 3 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 Time: 00:26:37

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-8
Sample Size: 10.5 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 5
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 76.7
% Lipid: 2.64

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	7.64	0.0532	3.06	1.001
3-MoCB	2			0.568	0.0643	2.96	0.988
4-MoCB	3		B	0.796	0.0675	3.58	1.001
2,2'-DiCB	4			48.9	0.363	1.50	1.001
2,3-DiCB	5		K	0.479	0.268	2.49	1.196
2,3'-DiCB	6			10.4	0.235	1.51	1.174
2,4-DiCB	7			1.72	0.242	1.56	1.157
2,4'-DiCB	8		B	36.2	0.216	1.54	1.207
2,5-DiCB	9			2.66	0.237	1.63	1.145
2,6-DiCB	10			2.40	0.223	1.44	1.013
3,3'-DiCB	11		B	21.7	0.271	1.56	0.968
3,4-DiCB	12	12 + 13	C K	1.38	0.271	3.22	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.259		
4,4'-DiCB	15			8.53	0.289	1.49	0.999
2,2',3-TriCB	16		B	33.1	0.0948	1.08	1.166
2,2',4-TriCB	17		B	41.8	0.0813	1.05	1.137
2,2',5-TriCB	18	18 + 30	C B	141	0.0679	1.06	1.113
2,2',6-TriCB	19			21.6	0.0884	1.06	1.002
2,3,3'-TriCB	20	20 + 28	C B	1070	0.194	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	113	0.176	0.99	0.857
2,3,4'-TriCB	22		B	179	0.211	1.02	0.872
2,3,5-TriCB	23		U		0.188		
2,3,6-TriCB	24			2.87	0.0588	1.08	1.158
2,3',4-TriCB	25			59.2	0.157	1.02	0.824
2,3',5-TriCB	26	26 + 29	C	138	0.186	1.00	1.299
2,3',6-TriCB	27			21.4	0.0566	1.04	1.151
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	457	0.175	1.01	0.836
2,4',6-TriCB	32		B	84.7	0.170	1.01	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			1.26	0.189	1.03	1.272
3,3',4-TriCB	35		U		0.243		
3,3',5-TriCB	36		U		0.201		
3,4,4'-TriCB	37		B	45.5	0.217	1.00	1.001
3,4,5-TriCB	38			5.54	0.199	1.01	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			4.40	0.203	1.02	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	563	0.0499	0.79	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			655	0.0504	0.79	1.309
2,2',3,5'-TeCB	43			36.1	0.0539	0.82	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	2910	0.0477	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	115	0.0477	0.79	1.145
2,2',3,6'-TeCB	46			20.3	0.0524	0.80	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	94.1	0.0496	0.80	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	2080	0.0477	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	150	0.0477	0.79	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	4110	0.0477	0.79	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			0.900	0.0477	0.88	1.001
2,3,3',4'-TeCB	55		U		4.05		
2,3,3',4'-TeCB	56		B	774	4.11	0.76	0.905
2,3,3',5'-TeCB	57			21.7	3.72	0.78	0.843
2,3,3',5'-TeCB	58			30.6	3.76	0.82	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	261	0.0477	0.78	1.300
2,3,4,4'-TeCB	60		B	797	4.21	0.75	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C E				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			263	3.75	0.75	0.864
2,3,4',6'-TeCB	64		B	896	0.0477	0.79	1.345
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	5220	3.78	0.76	0.884
2,3',4,5'-TeCB	67			78.3	3.28	0.75	0.856
2,3',4,5'-TeCB	68			116	3.61	0.76	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			157	3.56	0.76	0.822
2,3',5',6'-TeCB	73		U		0.0477		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			250	3.87	0.78	1.000
3,3',4,5'-TeCB	78		U		4.27		
3,3',4,5'-TeCB	79			178	3.38	0.74	0.969
3,3',5,5'-TeCB	80		U		3.72		
3,4,4',5'-TeCB	81			10.1	3.85	0.73	1.000
2,2',3,3',4'-PeCB	82			846	0.562	1.57	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C E				
2,2',3,3',6'-PeCB	84		B	1430	0.556	1.59	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	3390	0.437	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C E				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	1430	0.490	1.58	1.155
2,2',3,4,6'-PeCB	89			15.6	0.524	1.60	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	3440	0.522	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C E				
2,2',3,5,6'-PeCB	94			20.7	0.524	1.61	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			5.99	0.103	1.52	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			165	0.438	1.57	1.093
2,2',4,6,6'-PeCB	104			0.944	0.124	1.60	1.001
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		18.3		
2,3,3',4',5-PeCB	107	107 + 124	C	409	19.6	1.51	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			1940	20.2	1.51	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			35.2	0.385	1.59	0.945
2,3,3',5,6-PeCB	112		U		0.370		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			295	22.3	1.53	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			215	0.357	1.58	0.958
2,3',4,5',6-PeCB	121			9.37	0.388	1.54	1.199
2',3,3',4,5-PeCB	122			68.1	21.5	1.49	1.011
2',3,4,4',5-PeCB	123			215	21.6	1.55	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			67.4	25.7	1.50	1.000
3,3',4,5,5'-PeCB	127			34.7	20.8	1.56	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	6230	18.8	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			2010	23.2	1.26	0.914
2,2',3,3',4,6-HxCB	131			186	21.3	1.27	1.161
2,2',3,3',4,6'-HxCB	132		B	4410	22.4	1.26	1.176
2,2',3,3',5,5'-HxCB	133			679	20.6	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	1020	21.3	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	8290	0.113	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	1510	0.0860	1.26	1.026
2,2',3,4,4',5-HxCB	137			1150	22.7	1.26	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	487	19.6	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			2240	20.1	1.27	0.903
2,2',3,4,5,6-HxCB	142		U		22.1		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			693	0.114	1.26	1.123
2,2',3,4,6,6'-HxCB	145		K	1.94	0.0904	1.63	1.035
2,2',3,4',5,5'-HxCB	146		B	8550	18.8	1.27	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C E				
2,2',3,4',5,6'-HxCB	148			96.1	0.119	1.25	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			43.3	0.0869	1.23	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			2.35	0.0808	1.20	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			29.4	0.0802	1.23	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	2670	18.9	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			2640	14.3	1.27	0.938
2,3,3',4,5,5'-HxCB	159			110	15.6	1.29	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		15.5		
2,3,3',4',5,5'-HxCB	162			118	15.6	1.26	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			963	15.4	1.27	0.921
2,3,3',5,5',6-HxCB	165			41.5	17.0	1.27	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			1340	15.3	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		22.2		
2,2',3,3',4,4',5-HpCB	170		B	3960	0.398	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	1630	0.433	1.05	1.164
2,2',3,3',4,5,5'-HpCB	172			754	0.436	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			2230	0.376	1.06	1.134
2,2',3,3',4,5',6-HpCB	175			294	0.397	1.05	1.103
2,2',3,3',4,6,6'-HpCB	176			418	0.293	1.05	1.035
2,2',3,3',4',5,6-HpCB	177		B	3670	0.389	1.06	1.146
2,2',3,3',5,5',6-HpCB	178			2170	0.405	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			1650	0.283	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			31.3	0.420	1.09	1.156
2,2',3,4,4',5,6'-HpCB	182			54.4	0.389	1.07	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	5240	0.399	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			23.1	0.291	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.327		
2,2',3,4',5,5',6-HpCB	187		E				
2,2',3,4',5,6,6'-HpCB	188			50.0	0.288	1.02	1.000
2,3,3',4,4',5,5'-HpCB	189			141	0.433	1.00	1.001
2,3,3',4,4',5,6-HpCB	190			671	0.323	1.05	0.947
2,3,3',4,4',5',6-HpCB	191			153	0.287	1.04	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.367		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1540	0.363	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			470	0.398	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			999	0.174	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	201	0.130	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	2570	0.180	0.91	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			417	0.130	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			1220	0.151	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			1290	0.172	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204			2.11	0.132	0.80	1.038
2,3,3',4,4',5,5',6-OxCB	205			60.0	0.321	0.89	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	780	0.301	0.78	0.999
2,2',3,3',4,4',5,6,6'-NoCB	207		T	141	0.214	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			408	0.162	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	313	0.123	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-8_Form1A_PB9C_330S5_SJ1077649.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 3 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 Time: 00:26:37

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-8

Sample Size: 2.44 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 5

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 76.7
% Lipid: 2.64

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	32.9	0.229	3.06	1.001
3-MoCB	2			2.44	0.277	2.96	0.988
4-MoCB	3		B	3.42	0.290	3.58	1.001
2,2'-DiCB	4			210	1.56	1.50	1.001
2,3-DiCB	5		K	2.06	1.16	2.49	1.196
2,3'-DiCB	6			44.7	1.01	1.51	1.174
2,4-DiCB	7			7.39	1.04	1.56	1.157
2,4'-DiCB	8		B	155	0.928	1.54	1.207
2,5-DiCB	9			11.4	1.02	1.63	1.145
2,6-DiCB	10			10.3	0.959	1.44	1.013
3,3'-DiCB	11		B	93.3	1.17	1.56	0.968
3,4-DiCB	12	12 + 13	C K	5.93	1.17	3.22	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.11		
4,4'-DiCB	15			36.7	1.25	1.49	0.999
2,2',3-TriCB	16		B	143	0.408	1.08	1.166
2,2',4-TriCB	17		B	180	0.349	1.05	1.137
2,2',5-TriCB	18	18 + 30	C B	606	0.292	1.06	1.113
2,2',6-TriCB	19			92.8	0.380	1.06	1.002
2,3,3'-TriCB	20	20 + 28	C B	4600	0.834	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	486	0.757	0.99	0.857
2,3,4'-TriCB	22		B	770	0.907	1.02	0.872
2,3,5-TriCB	23		U		0.808		
2,3,6-TriCB	24			12.4	0.253	1.08	1.158
2,3',4-TriCB	25			255	0.674	1.02	0.824
2,3',5-TriCB	26	26 + 29	C	593	0.799	1.00	1.299
2,3',6-TriCB	27			92.0	0.244	1.04	1.151
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	1960	0.753	1.01	0.836
2,4',6-TriCB	32		B	364	0.731	1.01	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			5.42	0.813	1.03	1.272
3,3',4-TriCB	35		U		1.04		
3,3',5-TriCB	36		U		0.864		
3,4,4'-TriCB	37		B	196	0.933	1.00	1.001
3,4,5-TriCB	38			23.8	0.856	1.01	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			18.9	0.873	1.02	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	2430	0.214	0.79	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			2810	0.216	0.79	1.309
2,2',3,5'-TeCB	43			155	0.231	0.82	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	12500	0.205	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	494	0.205	0.79	1.145
2,2',3,6'-TeCB	46			87.3	0.226	0.80	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	405	0.213	0.80	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	8940	0.205	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	645	0.205	0.79	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	17700	0.205	0.79	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			3.86	0.205	0.88	1.001
2,3,3',4'-TeCB	55		U		17.5		
2,3,3',4'-TeCB	56		B	3330	17.7	0.76	0.905
2,3,3',5'-TeCB	57			93.3	16.0	0.78	0.843
2,3,3',5'-TeCB	58			131	16.2	0.82	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	1120	0.205	0.78	1.300
2,3,4,4'-TeCB	60		B	3420	18.1	0.75	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C E				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			1130	16.1	0.75	0.864
2,3,4',6'-TeCB	64		B	3850	0.205	0.79	1.345
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	22400	16.2	0.76	0.884
2,3',4,5'-TeCB	67			337	14.1	0.75	0.856
2,3',4,5'-TeCB	68			499	15.5	0.76	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			674	15.3	0.76	0.822
2,3',5',6'-TeCB	73		U		0.205		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			1070	16.7	0.78	1.000
3,3',4,5'-TeCB	78		U		18.4		
3,3',4,5'-TeCB	79			765	14.5	0.74	0.969
3,3',5,5'-TeCB	80		U		16.0		
3,4,4',5'-TeCB	81			43.4	16.5	0.73	1.000
2,2',3,3',4'-PeCB	82			3640	2.41	1.57	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C E				
2,2',3,3',6'-PeCB	84		B	6140	2.39	1.59	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	14600	1.88	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C E				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	6140	2.11	1.58	1.155
2,2',3,4,6'-PeCB	89			67.1	2.26	1.60	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	14700	2.24	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C E				
2,2',3,5,6'-PeCB	94			89.0	2.26	1.61	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			25.7	0.443	1.52	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			709	1.88	1.57	1.093
2,2',4,6,6'-PeCB	104			4.06	0.533	1.60	1.001
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		78.7		
2,3,3',4',5-PeCB	107	107 + 124	C	1760	84.2	1.51	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			8340	86.8	1.51	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			152	1.65	1.59	0.945
2,3,3',5,6-PeCB	112		U		1.59		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			1270	95.9	1.53	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			924	1.53	1.58	0.958
2,3',4,5',6-PeCB	121			40.2	1.67	1.54	1.199
2',3,3',4,5-PeCB	122			292	92.4	1.49	1.011
2',3,4,4',5-PeCB	123			924	92.8	1.55	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			290	110	1.50	1.000
3,3',4,5,5'-PeCB	127			150	89.4	1.56	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	26700	80.8	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			8640	99.7	1.26	0.914
2,2',3,3',4,6-HxCB	131			799	91.6	1.27	1.161
2,2',3,3',4,6'-HxCB	132		B	18900	96.3	1.26	1.176
2,2',3,3',5,5'-HxCB	133			2920	88.5	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	4390	91.6	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	35600	0.486	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	6490	0.369	1.26	1.026
2,2',3,4,4',5-HxCB	137			4940	97.6	1.26	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	2100	84.2	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			9630	86.4	1.27	0.903
2,2',3,4,5,6-HxCB	142		U		95.0		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			2980	0.490	1.26	1.123
2,2',3,4,6,6'-HxCB	145		K	8.34	0.389	1.63	1.035
2,2',3,4',5,5'-HxCB	146		B	36700	80.8	1.27	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C E				
2,2',3,4',5,6'-HxCB	148			414	0.511	1.25	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			186	0.374	1.23	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			10.1	0.347	1.20	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			127	0.345	1.23	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	11400	81.3	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			11300	61.4	1.27	0.938
2,3,3',4,5,5'-HxCB	159			473	67.1	1.29	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		66.6		
2,3,3',4',5,5'-HxCB	162			508	67.1	1.26	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			4140	66.2	1.27	0.921
2,3,3',5,5',6-HxCB	165			178	73.1	1.27	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			5760	65.7	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		95.4		
2,2',3,3',4,4',5-HpCB	170		B	17000	1.71	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	7000	1.86	1.05	1.164
2,2',3,3',4,5,5'-HpCB	172			3240	1.87	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			9590	1.62	1.06	1.134
2,2',3,3',4,5',6-HpCB	175			1270	1.71	1.05	1.103
2,2',3,3',4,6'-HpCB	176			1800	1.26	1.05	1.035
2,2',3,3',4',5,6-HpCB	177		B	15800	1.68	1.06	1.146
2,2',3,3',5,5',6-HpCB	178			9330	1.75	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			7090	1.21	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			135	1.80	1.09	1.156
2,2',3,4,4',5,6'-HpCB	182			233	1.68	1.07	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	22600	1.71	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			99.3	1.25	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		1.41		
2,2',3,4',5,5',6-HpCB	187		E				
2,2',3,4',5,6,6'-HpCB	188			215	1.24	1.02	1.000
2,3,3',4,4',5,5'-HpCB	189			606	1.86	1.00	1.001
2,3,3',4,4',5,6-HpCB	190			2890	1.39	1.05	0.947
2,3,3',4,4',5',6-HpCB	191			657	1.24	1.04	0.918
2,3,3',4,5,5',6-HpCB	192		U		1.58		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			6620	1.56	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			2020	1.71	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			4300	0.748	0.90	0.916
2,2',3,3',4,4',6-OxCB	197	197 + 200	C	864	0.559	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	11000	0.774	0.91	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			1790	0.559	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			5250	0.649	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			5540	0.739	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204			9.07	0.568	0.80	1.038
2,3,3',4,4',5,5',6-OxCB	205			258	1.38	0.89	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	3350	1.29	0.78	0.999
2,2',3,3',4,4',5,6,6'-NoCB	207		T	606	0.920	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			1760	0.696	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	1350	0.529	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-8_Form1A_PB9C_330S5_SJ1077649_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 3 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 Time: 00:26:37

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-8

Sample Size: 0.276 g (lipid)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 5

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 76.7
% Lipid: 2.64

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	290	2.02	3.06	1.001
3-MoCB	2			21.5	2.44	2.96	0.988
4-MoCB	3		B	30.2	2.56	3.58	1.001
2,2'-DiCB	4			1850	13.8	1.50	1.001
2,3-DiCB	5		K	18.2	10.2	2.49	1.196
2,3'-DiCB	6			394	8.91	1.51	1.174
2,4-DiCB	7			65.2	9.18	1.56	1.157
2,4'-DiCB	8		B	1370	8.19	1.54	1.207
2,5-DiCB	9			101	8.99	1.63	1.145
2,6-DiCB	10			91.0	8.46	1.44	1.013
3,3'-DiCB	11		B	823	10.3	1.56	0.968
3,4-DiCB	12	12 + 13	C K	52.3	10.3	3.22	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		9.82		
4,4'-DiCB	15			324	11.0	1.49	0.999
2,2',3-TriCB	16		B	1260	3.60	1.08	1.166
2,2',4-TriCB	17		B	1590	3.08	1.05	1.137
2,2',5-TriCB	18	18 + 30	C B	5350	2.58	1.06	1.113
2,2',6-TriCB	19			819	3.35	1.06	1.002
2,3,3'-TriCB	20	20 + 28	C B	40600	7.36	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	4290	6.68	0.99	0.857
2,3,4'-TriCB	22		B	6790	8.00	1.02	0.872
2,3,5-TriCB	23		U		7.13		
2,3,6-TriCB	24			109	2.23	1.08	1.158
2,3',4-TriCB	25			2250	5.95	1.02	0.824
2,3',5-TriCB	26	26 + 29	C	5230	7.05	1.00	1.299
2,3',6-TriCB	27			812	2.15	1.04	1.151
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	17300	6.64	1.01	0.836
2,4',6-TriCB	32		B	3210	6.45	1.01	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			47.8	7.17	1.03	1.272
3,3',4-TriCB	35		U		9.22		
3,3',5-TriCB	36		U		7.62		
3,4,4'-TriCB	37		B	1730	8.23	1.00	1.001
3,4,5-TriCB	38			210	7.55	1.01	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			167	7.70	1.02	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	21400	1.89	0.79	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			24800	1.91	0.79	1.309
2,2',3,5'-TeCB	43			1370	2.04	0.82	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	110000	1.81	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C B	4360	1.81	0.79	1.145
2,2',3,6'-TeCB	46			770	1.99	0.80	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	3570	1.88	0.80	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	78900	1.81	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	5690	1.81	0.79	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	156000	1.81	0.79	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			34.1	1.81	0.88	1.001
2,3,3',4'-TeCB	55		U		154		
2,3,3',4'-TeCB	56		B	29400	156	0.76	0.905
2,3,3',5'-TeCB	57			823	141	0.78	0.843
2,3,3',5'-TeCB	58			1160	143	0.82	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	9900	1.81	0.78	1.300
2,3,4,4'-TeCB	60		B	30200	160	0.75	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C E				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			9980	142	0.75	0.864
2,3,4',6'-TeCB	64		B	34000	1.81	0.79	1.345
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	198000	143	0.76	0.884
2,3',4,5'-TeCB	67			2970	124	0.75	0.856
2,3',4,5'-TeCB	68			4400	137	0.76	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			5950	135	0.76	0.822
2,3',5',6'-TeCB	73		U		1.81		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			9480	147	0.78	1.000
3,3',4,5'-TeCB	78		U		162		
3,3',4,5'-TeCB	79			6750	128	0.74	0.969
3,3',5,5'-TeCB	80		U		141		
3,4,4',5'-TeCB	81			383	146	0.73	1.000
2,2',3,3',4'-PeCB	82			32100	21.3	1.57	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C E				
2,2',3,3',6'-PeCB	84		B	54200	21.1	1.59	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	129000	16.6	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C E				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	54200	18.6	1.58	1.155
2,2',3,4,6'-PeCB	89			592	19.9	1.60	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	130000	19.8	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C E				
2,2',3,5,6'-PeCB	94			785	19.9	1.61	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			227	3.91	1.52	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			6260	16.6	1.57	1.093
2,2',4,6,6'-PeCB	104			35.8	4.70	1.60	1.001
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		694		
2,3,3',4',5-PeCB	107	107 + 124	C	15500	743	1.51	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			73600	766	1.51	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			1340	14.6	1.59	0.945
2,3,3',5,6-PeCB	112		U		14.0		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			11200	846	1.53	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			8150	13.5	1.58	0.958
2,3',4,5',6-PeCB	121			355	14.7	1.54	1.199
2',3,3',4,5-PeCB	122			2580	815	1.49	1.011
2',3,4,4',5-PeCB	123			8150	819	1.55	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			2560	975	1.50	1.000
3,3',4,5,5'-PeCB	127			1320	789	1.56	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	236000	713	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			76200	880	1.26	0.914
2,2',3,3',4,6-HxCB	131			7050	808	1.27	1.161
2,2',3,3',4,6'-HxCB	132		B	167000	850	1.26	1.176
2,2',3,3',5,5'-HxCB	133			25800	781	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	38700	808	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	314000	4.29	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	57300	3.26	1.26	1.026
2,2',3,4,4',5-HxCB	137			43600	861	1.26	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	18500	743	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			85000	762	1.27	0.903
2,2',3,4,5,6-HxCB	142		U		838		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			26300	4.32	1.26	1.123
2,2',3,4,6,6'-HxCB	145		K	73.6	3.43	1.63	1.035
2,2',3,4',5,5'-HxCB	146		B	324000	713	1.27	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C E				
2,2',3,4',5,6'-HxCB	148			3650	4.51	1.25	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			1640	3.30	1.23	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			89.1	3.06	1.20	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			1120	3.04	1.23	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	101000	717	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			100000	542	1.27	0.938
2,3,3',4,5,5'-HxCB	159			4170	592	1.29	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		588		
2,3,3',4',5,5'-HxCB	162			4480	592	1.26	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			36500	584	1.27	0.921
2,3,3',5,5',6-HxCB	165			1570	645	1.27	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			50800	580	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		842		
2,2',3,3',4,4',5'-HpCB	170		B	150000	15.1	1.05	0.936
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C	61800	16.4	1.05	1.164
2,2',3,3',4,5,5'-HpCB	172			28600	16.5	1.04	0.897
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			84600	14.3	1.06	1.134
2,2',3,3',4,5',6'-HpCB	175			11200	15.1	1.05	1.103
2,2',3,3',4,6',6'-HpCB	176			15900	11.1	1.05	1.035
2,2',3,3',4',5,6'-HpCB	177		B	139000	14.8	1.06	1.146
2,2',3,3',5,5',6'-HpCB	178			82300	15.4	1.05	1.085
2,2',3,3',5,6',6'-HpCB	179			62600	10.7	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6'-HpCB	181			1190	15.9	1.09	1.156
2,2',3,4,4',5,6'-HpCB	182			2060	14.8	1.07	1.116
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C	199000	15.1	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			876	11.0	1.09	1.024
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		12.4		
2,2',3,4',5,5',6'-HpCB	187		E				
2,2',3,4',5,6,6'-HpCB	188			1900	10.9	1.02	1.000
2,3,3',4,4',5,5'-HpCB	189			5350	16.4	1.00	1.001
2,3,3',4,4',5,6'-HpCB	190			25500	12.3	1.05	0.947
2,3,3',4,4',5',6'-HpCB	191			5800	10.9	1.04	0.918
2,3,3',4,5,5',6'-HpCB	192		U		13.9		
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			58400	13.8	0.89	0.991
2,2',3,3',4,4',5,6'-OxCB	195			17800	15.1	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			37900	6.60	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	7620	4.93	0.91	1.045
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C	97500	6.83	0.91	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			15800	4.93	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			46300	5.73	0.91	1.000
2,2',3,4,4',5,5',6'-OxCB	203			48900	6.52	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204			80.0	5.01	0.80	1.038
2,3,3',4,4',5,5',6'-OxCB	205			2280	12.2	0.89	1.001
2,2',3,3',4,4',5,5',6'-NoCB	206		T	29600	11.4	0.78	0.999
2,2',3,3',4,4',5,6,6'-NoCB	207		T	5350	8.12	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			15500	6.14	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	11900	4.67	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-8_Form1A_PB9C_330S5_SJ1077649_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 3 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 26-Nov-2009 Time: 04:59:18

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 10

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-8 W

Sample Size: 10.5 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_359 S: 9

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_359 S: 1

% Moisture: 76.7
% Lipid: 2.64

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B D	6030	31.3	0.77	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	15100	14.9	1.56	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B D	8270	12.9	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	15100	13.1	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B D	7680	14.3	1.58	1.121
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	6660	53.7	1.54	1.001
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	11800	11.4	1.56	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	20300	44.4	1.54	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	39600	18.7	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C B D	15100	19.6	1.25	1.134
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	41700	16.1	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	10900	1.26	1.04	0.910
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		B D	12600	1.36	1.04	1.111
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 3 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 26-Nov-2009 Time: 04:59:18

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 10

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-8 W

Sample Size: 2.44 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_359 S: 9

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_359 S: 1

% Moisture: 76.7
% Lipid: 2.64

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B D	26000	135	0.77	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	64900	64.0	1.56	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B D	35600	55.4	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	64900	56.3	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B D	33000	61.4	1.58	1.121
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	28700	231	1.54	1.001
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	50800	49.0	1.56	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	87300	190	1.54	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	170000	80.4	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C B D	64900	84.2	1.25	1.134
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	179000	69.2	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	46800	5.42	1.04	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	54200	5.85	1.04	1.111
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6'-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6'-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6'-OxCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 3 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 26-Nov-2009 Time: 04:59:18

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 10

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-8 W
Sample Size: 0.276 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_359 S: 9
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_359 S: 1
% Moisture: 76.7
% Lipid: 2.64

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B D	229000	1190	0.77	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	573000	565	1.56	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B D	314000	489	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	573000	497	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B D	291000	542	1.58	1.121
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	253000	2040	1.54	1.001
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	448000	432	1.56	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	770000	1680	1.54	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	1500000	709	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C B D	573000	743	1.25	1.134
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	1580000	611	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	413000	47.8	1.04	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	478000	51.6	1.04	1.111
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		X				
2,2',3,3',4,4',5,6'-OcCB	195		X				
2,2',3,3',4,4',5,6'-OcCB	196		X				
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OcCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201		X				
2,2',3,3',5,5',6,6'-OcCB	202		X				
2,2',3,4,4',5,5',6'-OcCB	203		X				
2,2',3,4,4',5,6,6'-OcCB	204		X				
2,3,3',4,4',5,5',6'-OcCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-8_Form1A_PB9C_359S9_SJ1084472_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 3 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 30-Oct-2009 Time: 00:26:37
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-8
Sample Size: 10.5 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 5
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 76.7
% Lipid: 2.64

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	661	33.0	3.30	0.722
13C12-4-MoCB	3L			2000	749	37.4	3.27	0.860
13C12-2,2'-DiCB	4L			2000	885	44.3	1.57	0.875
13C12-4,4'-DiCB	15L			2000	928	46.4	1.59	1.254
13C12-2,2',6-TriCB	19L			2000	1040	51.8	1.07	1.072
13C12-3,4,4'-TriCB	37L			2000	1060	53.2	1.04	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1210	60.4	0.81	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1250	62.4	0.79	1.396
13C12-3,4,4',5-TeCB	81L			2000	1330	66.4	0.79	1.372
13C12-2,2',4,6,6'-PeCB	104L			2000	1140	56.8	1.61	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1390	69.7	1.56	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1040	51.8	1.61	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1460	72.8	1.56	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1100	55.0	1.56	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1090	54.7	1.55	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1200	60.1	1.26	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2820	70.6	1.28	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1310	65.6	1.29	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1400	69.9	1.28	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1570	78.3	1.09	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1950	97.7	1.06	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1450	72.5	1.05	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1410	70.7	1.06	0.958
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1650	82.7	0.92	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1610	80.5	0.93	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L		V	2000	4870	243	0.87	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1750	87.3	0.81	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1560	78.1	1.18	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1200	60.1	1.05	0.924
13C12-2,3,3',5,5'-PeCB	111L			2000	1400	70.2	1.62	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1520	75.8	1.03	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 3 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 26-Nov-2009 Time: 04:59:18
Extract Volume (uL): 200
Injection Volume (uL): 1.0
Dilution Factor: 10
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-8 W
Sample Size: 10.5 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_359 S: 9
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_359 S: 1
% Moisture: 76.7
% Lipid: 2.64

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L		X					
13C12-4-MoCB	3L		X					
13C12-2,2'-DiCB	4L		X					
13C12-4,4'-DiCB	15L		X					
13C12-2,2',6-TriCB	19L		X					
13C12-3,4,4'-TriCB	37L		X					
13C12-2,2',6,6'-TeCB	54L		D	2000	1220	61.2	0.78	0.812
13C12-3,3',4,4'-TeCB	77L		D	2000	1410	70.4	0.81	1.397
13C12-3,4,4',5-TeCB	81L		D	2000	1420	71.0	0.80	1.373
13C12-2,2',4,6,6'-PeCB	104L		D	2000	1510	75.4	1.70	0.809
13C12-2,3,3',4,4'-PeCB	105L		D	2000	1280	64.1	1.56	1.201
13C12-2,3,4,4',5-PeCB	114L		D	2000	1140	56.9	1.52	1.180
13C12-2,3',4,4',5-PeCB	118L		D	2000	1450	72.4	1.68	1.162
13C12-2',3,4,4',5-PeCB	123L		D	2000	1310	65.7	1.53	1.152
13C12-3,3',4,4',5-PeCB	126L		D	2000	1170	58.5	1.59	1.302
13C12-2,2',4,4',6,6'-HxCB	155L		D	2000	1670	83.4	1.27	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C D	4000	2750	68.7	1.26	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L		D	2000	1390	69.5	1.27	1.078
13C12-3,3',4,4',5,5'-HxCB	169L		D	2000	1360	67.8	1.27	1.192
13C12-2,2',3,3',4,4',5-HpCB	170L		D	2000	1580	79.1	0.97	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L		D	2000	1740	86.9	0.99	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L		D	2000	1940	96.8	1.08	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L		D	2000	1290	64.7	1.18	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L		X					
13C12-2,3,3',4,4',5,5',6-OxCB	205L		X					
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L		X					
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L		X					
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L		X					
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L		X					
13C12-2,3,3',5,5'-PeCB	111L		X					
13C12-2,2',3,3',5,5',6-HpCB	178L		X					

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; D = dilution data; C = co-eluting congener; X = result reported separately.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 2 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 25-Nov-2009 Time: 18:02:24

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-9 L
Sample Size: 10.4 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 10
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 78.4
% Lipid: 1.45

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	3.83	0.258	3.15	1.000
3-MoCB	2		K	0.368	0.309	4.95	0.987
4-MoCB	3		K B	0.583	0.304	4.21	1.000
2,2'-DiCB	4			27.8	1.47	1.58	1.001
2,3-DiCB	5		U		1.00		
2,3'-DiCB	6			6.76	0.875	1.51	1.176
2,4-DiCB	7		U		0.877		
2,4'-DiCB	8		B	25.0	0.805	1.57	1.207
2,5-DiCB	9			1.62	0.858	1.61	1.144
2,6-DiCB	10		U		0.763		
3,3'-DiCB	11		B	27.0	0.969	1.59	0.969
3,4-DiCB	12	12 + 13	C U		0.966		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.946		
4,4'-DiCB	15			8.03	0.977	1.66	1.000
2,2',3-TriCB	16		B	21.7	0.347	1.03	1.165
2,2',4-TriCB	17		B	24.2	0.297	1.10	1.137
2,2',5-TriCB	18	18 + 30	C B	60.5	0.251	1.03	1.112
2,2',6-TriCB	19			10.9	0.327	1.04	1.001
2,3,3'-TriCB	20	20 + 28	C B	305	0.232	1.03	0.848
2,3,4-TriCB	21	21 + 33	C B	45.0	0.220	1.00	0.857
2,3,4'-TriCB	22		B	56.3	0.257	0.98	0.872
2,3,5-TriCB	23		U		0.239		
2,3,6-TriCB	24		K	1.34	0.220	0.70	1.157
2,3',4-TriCB	25			19.0	0.204	1.03	0.824
2,3',5-TriCB	26	26 + 29	C	44.8	0.234	1.02	1.299
2,3',6-TriCB	27		K	7.91	0.212	1.24	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	152	0.218	1.03	0.836
2,4',6-TriCB	32		B	30.9	0.221	1.02	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	0.912	0.248	1.24	1.271
3,3',4-TriCB	35		U		0.271		
3,3',5-TriCB	36		U		0.238		
3,4,4'-TriCB	37		B	20.1	0.266	1.05	1.001
3,4,5-TriCB	38		K	0.896	0.235	0.81	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			1.81	0.243	1.04	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	112	0.314	0.77	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			113	0.320	0.79	1.311
2,2',3,5'-TeCB	43			11.4	0.372	0.82	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	541	0.286	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	27.5	0.305	0.82	1.146
2,2',3,6'-TeCB	46			6.86	0.345	0.73	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	27.6	0.313	0.81	1.272
2,2',4,5'-TeCB	49	49 + 69	C B	310	0.266	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	33.7	0.298	0.84	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	742	0.294	0.77	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	0.415	0.246	1.59	1.001
2,3,3',4'-TeCB	55		U		2.51		
2,3,3',4'-TeCB	56		B	187	2.45	0.77	0.905
2,3,3',5'-TeCB	57			6.61	2.27	0.86	0.843
2,3,3',5'-TeCB	58			7.11	2.30	0.79	0.850
2,3,3',6'-TeCB	59	59 + 62 + 75	C	55.5	0.240	0.78	1.301
2,3,4,4'-TeCB	60		B	192	2.56	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	1070	2.29	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			53.6	2.23	0.81	0.864
2,3,4',6'-TeCB	64		B	187	0.229	0.77	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	913	2.34	0.78	0.884
2,3',4,5'-TeCB	67			21.1	1.95	0.80	0.855
2,3',4,5'-TeCB	68			24.8	2.28	0.77	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			33.2	2.20	0.75	0.821
2,3',5',6'-TeCB	73		U		0.232		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			82.8	2.40	0.77	1.000
3,3',4,5'-TeCB	78		U		2.59		
3,3',4,5'-TeCB	79			23.5	2.05	0.74	0.969
3,3',5,5'-TeCB	80		U		2.26		
3,4,4',5'-TeCB	81		K	3.81	2.64	1.05	1.000
2,2',3,3',4'-PeCB	82			144	2.12	1.52	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	1960	1.97	1.57	0.885
2,2',3,3',6'-PeCB	84		B	256	2.07	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	757	1.64	1.54	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	1340	1.66	1.56	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	247	1.87	1.54	1.155
2,2',3,4,6'-PeCB	89			5.59	1.97	1.45	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	2920	1.68	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	692	1.93	1.58	0.852
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	1300	1.79	1.56	1.121
2,2',3,5,6'-PeCB	94			5.69	2.01	1.65	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			2.68	0.409	1.39	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			26.7	1.66	1.63	1.093
2,2',4,6,6'-PeCB	104		U		0.390		
2,3,3',4,4'-PeCB	105		B	1570	1.07	1.54	1.000
2,3,3',4,5-PeCB	106		U		1.07		
2,3,3',4',5-PeCB	107	107 + 124	C	108	1.09	1.53	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			428	1.04	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	2140	1.47	1.56	0.925
2,3,3',5,5'-PeCB	111			11.9	1.48	1.57	0.945
2,3,3',5,6-PeCB	112		U		1.39		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			68.0	1.25	1.49	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	4110	1.11	1.55	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			56.3	1.41	1.52	0.958
2,3',4,5',6-PeCB	121			2.55	1.48	1.69	1.198
2',3,3',4,5-PeCB	122			20.0	1.19	1.46	1.011
2',3,4,4',5-PeCB	123			67.6	1.24	1.59	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			15.8	1.47	1.59	1.000
3,3',4,5,5'-PeCB	127			9.01	1.21	1.63	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	1270	1.38	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	7900	1.36	1.25	0.929
2,2',3,3',4,5'-HxCB	130			440	1.67	1.26	0.913
2,2',3,3',4,6-HxCB	131			33.8	1.54	1.31	1.161
2,2',3,3',4,6'-HxCB	132		B	771	1.59	1.27	1.177
2,2',3,3',5,5'-HxCB	133			163	1.48	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	219	1.58	1.25	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1760	0.352	1.25	1.105
2,2',3,3',6,6'-HxCB	136		B	275	0.269	1.26	1.026
2,2',3,4,4',5-HxCB	137			228	1.70	1.23	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	112	1.42	1.27	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			459	1.43	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		1.53		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			157	0.364	1.24	1.123
2,2',3,4,6,6'-HxCB	145		K	0.718	0.285	0.78	1.036
2,2',3,4',5,5'-HxCB	146		B	1610	1.27	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	2880	1.37	1.25	1.135
2,2',3,4',5,6'-HxCB	148			27.0	0.373	1.19	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			9.65	0.269	1.23	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	1.62	0.263	1.51	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	8970	1.18	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			14.6	0.229	1.23	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	659	1.67	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			555	1.08	1.25	0.938
2,3,3',4,5,5'-HxCB	159			25.6	1.22	1.22	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		1.13		
2,3,3',4',5,5'-HxCB	162			34.8	1.26	1.29	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			207	1.12	1.28	0.922
2,3,3',5,5',6-HxCB	165			10.6	1.29	1.08	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			315	1.14	1.22	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		6.67		
2,2',3,3',4,4',5-HpCB	170		B	1110	0.408	1.03	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	459	0.387	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			233	0.394	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			542	0.354	1.02	1.134
2,2',3,3',4,5',6-HpCB	175			89.0	0.350	1.07	1.102
2,2',3,3',4,6,6'-HpCB	176			98.5	0.258	1.02	1.034
2,2',3,3',4',5,6-HpCB	177		B	1000	0.349	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			534	0.343	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179			357	0.250	1.03	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	3200	0.313	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			9.57	0.365	1.07	1.157
2,2',3,4,4',5,6'-HpCB	182		K	17.0	0.331	1.48	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	1300	0.341	1.03	1.126
2,2',3,4,4',6,6'-HpCB	184			11.9	0.246	1.04	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.270		
2,2',3,4',5,5',6-HpCB	187		B	3940	0.331	1.03	1.110
2,2',3,4',5,6,6'-HpCB	188			16.6	0.236	1.10	1.000
2,3,3',4,4',5,5'-HpCB	189			38.7	0.522	1.05	1.000
2,3,3',4,4',5,6-HpCB	190			181	0.315	1.07	0.947
2,3,3',4,4',5',6-HpCB	191			48.0	0.300	1.05	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.332		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			371	0.446	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			111	0.478	0.93	0.946
2,2',3,3',4,4',5,6'-OxCB	196			314	0.280	0.90	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	77.9	0.205	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	794	0.286	0.89	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			152	0.200	0.89	1.022
2,2',3,3',5,5',6,6'-OxCB	202			365	0.211	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			402	0.279	0.92	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	1.13	0.204	0.62	1.038
2,3,3',4,4',5,5',6-OxCB	205			16.5	0.437	0.84	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	192	0.376	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	36.7	0.315	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			152	0.297	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	134	0.230	0.67	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-9_Form1A_PB9C_358S10_SJ1084303.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 2 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 25-Nov-2009 Time: 18:02:24

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-9 L

Sample Size: 2.20 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_358 S: 10

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_358 S: 1

% Moisture: 78.4
% Lipid: 1.45

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	18.1	1.22	3.15	1.000
3-MoCB	2		K	1.74	1.46	4.95	0.987
4-MoCB	3		K B	2.76	1.44	4.21	1.000
2,2'-DiCB	4			132	6.98	1.58	1.001
2,3-DiCB	5		U		4.74		
2,3'-DiCB	6			32.0	4.15	1.51	1.176
2,4-DiCB	7		U		4.15		
2,4'-DiCB	8		B	118	3.81	1.57	1.207
2,5-DiCB	9			7.65	4.07	1.61	1.144
2,6-DiCB	10		U		3.62		
3,3'-DiCB	11		B	128	4.59	1.59	0.969
3,4-DiCB	12	12 + 13	C U		4.58		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		4.48		
4,4'-DiCB	15			38.0	4.63	1.66	1.000
2,2',3-TriCB	16		B	103	1.64	1.03	1.165
2,2',4-TriCB	17		B	115	1.41	1.10	1.137
2,2',5-TriCB	18	18 + 30	C B	287	1.19	1.03	1.112
2,2',6-TriCB	19			51.6	1.55	1.04	1.001
2,3,3'-TriCB	20	20 + 28	C B	1440	1.10	1.03	0.848
2,3,4-TriCB	21	21 + 33	C B	213	1.04	1.00	0.857
2,3,4'-TriCB	22		B	266	1.21	0.98	0.872
2,3,5-TriCB	23		U		1.13		
2,3,6-TriCB	24		K	6.35	1.04	0.70	1.157
2,3',4-TriCB	25			89.9	0.966	1.03	0.824
2,3',5-TriCB	26	26 + 29	C	212	1.11	1.02	1.299
2,3',6-TriCB	27		K	37.4	1.01	1.24	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	718	1.03	1.03	0.836
2,4',6-TriCB	32		B	146	1.05	1.02	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	4.32	1.17	1.24	1.271
3,3',4-TriCB	35		U		1.28		
3,3',5-TriCB	36		U		1.13		
3,4,4'-TriCB	37		B	95.3	1.26	1.05	1.001
3,4,5-TriCB	38		K	4.24	1.11	0.81	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			8.59	1.15	1.04	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	531	1.49	0.77	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			536	1.52	0.79	1.311
2,2',3,5'-TeCB	43			54.0	1.76	0.82	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	2560	1.36	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	130	1.44	0.82	1.146
2,2',3,6'-TeCB	46			32.5	1.64	0.73	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	131	1.48	0.81	1.272
2,2',4,5'-TeCB	49	49 + 69	C B	1470	1.26	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	160	1.41	0.84	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	3520	1.40	0.77	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	1.97	1.17	1.59	1.001
2,3,3',4'-TeCB	55		U		11.9		
2,3,3',4'-TeCB	56		B	886	11.6	0.77	0.905
2,3,3',5'-TeCB	57			31.3	10.7	0.86	0.843
2,3,3',5'-TeCB	58			33.7	10.9	0.79	0.850
2,3,3',6'-TeCB	59	59 + 62 + 75	C	263	1.13	0.78	1.301
2,3,4,4'-TeCB	60		B	913	12.1	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	5070	10.9	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			254	10.5	0.81	0.864
2,3,4',6'-TeCB	64		B	886	1.09	0.77	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	4320	11.1	0.78	0.884
2,3',4,5'-TeCB	67			100	9.26	0.80	0.855
2,3',4,5'-TeCB	68			117	10.8	0.77	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			157	10.4	0.75	0.821
2,3',5',6'-TeCB	73		U		1.10		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			392	11.3	0.77	1.000
3,3',4,5'-TeCB	78		U		12.3		
3,3',4,5'-TeCB	79			111	9.73	0.74	0.969
3,3',5,5'-TeCB	80		U		10.7		
3,4,4',5'-TeCB	81		K	18.1	12.5	1.05	1.000
2,2',3,3',4'-PeCB	82			684	10.1	1.52	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	9260	9.33	1.57	0.885
2,2',3,3',6'-PeCB	84		B	1210	9.80	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	3580	7.78	1.54	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	6350	7.85	1.56	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	1170	8.86	1.54	1.155
2,2',3,4,6'-PeCB	89			26.5	9.33	1.45	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	13800	7.99	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	3270	9.13	1.58	0.852
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	6160	8.46	1.56	1.121
2,2',3,5,6'-PeCB	94			27.0	9.53	1.65	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			12.7	1.94	1.39	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			126	7.85	1.63	1.093
2,2',4,6,6'-PeCB	104		U		1.85		
2,3,3',4,4'-PeCB	105		B	7450	5.07	1.54	1.000
2,3,3',4,5-PeCB	106		U		5.07		
2,3,3',4',5-PeCB	107	107 + 124	C	511	5.16	1.53	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			2030	4.93	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	10100	6.98	1.56	0.925
2,3,3',5,5'-PeCB	111			56.4	6.98	1.57	0.945
2,3,3',5,6-PeCB	112		U		6.58		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			322	5.92	1.49	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	19500	5.26	1.55	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			266	6.68	1.52	0.958
2,3',4,5',6-PeCB	121			12.1	6.98	1.69	1.198
2',3,3',4,5-PeCB	122			94.6	5.64	1.46	1.011
2',3,4,4',5-PeCB	123			320	5.87	1.59	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			75.2	6.98	1.59	1.000
3,3',4,5,5'-PeCB	127			42.7	5.73	1.63	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	6010	6.54	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	37400	6.44	1.25	0.929
2,2',3,3',4,5'-HxCB	130			2090	7.92	1.26	0.913
2,2',3,3',4,6-HxCB	131			160	7.31	1.31	1.161
2,2',3,3',4,6'-HxCB	132		B	3650	7.52	1.27	1.177
2,2',3,3',5,5'-HxCB	133			772	6.98	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	1040	7.52	1.25	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	8320	1.66	1.25	1.105
2,2',3,3',6,6'-HxCB	136		B	1300	1.28	1.26	1.026
2,2',3,4,4',5-HxCB	137			1080	8.05	1.23	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	531	6.71	1.27	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			2170	6.78	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		7.25		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			745	1.72	1.24	1.123
2,2',3,4,6,6'-HxCB	145		K	3.40	1.35	0.78	1.036
2,2',3,4',5,5'-HxCB	146		B	7650	6.01	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	13600	6.49	1.25	1.135
2,2',3,4',5,6'-HxCB	148			128	1.76	1.19	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			45.7	1.28	1.23	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	7.65	1.25	1.51	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	42500	5.59	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			69.1	1.09	1.23	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	3120	7.92	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			2630	5.11	1.25	0.938
2,3,3',4,5,5'-HxCB	159			121	5.78	1.22	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		5.36		
2,3,3',4',5,5'-HxCB	162			165	5.97	1.29	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			980	5.31	1.28	0.922
2,3,3',5,5',6-HxCB	165			50.2	6.11	1.08	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			1490	5.40	1.22	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		31.6		
2,2',3,3',4,4',5-HpCB	170		B	5260	1.93	1.03	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	2170	1.83	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			1100	1.87	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			2570	1.68	1.02	1.134
2,2',3,3',4,5',6-HpCB	175			421	1.66	1.07	1.102
2,2',3,3',4,6'-HpCB	176			466	1.22	1.02	1.034
2,2',3,3',4',5,6-HpCB	177		B	4740	1.65	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			2530	1.62	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179			1690	1.18	1.03	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	15200	1.48	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			45.4	1.73	1.07	1.157
2,2',3,4,4',5,6'-HpCB	182		K	80.5	1.57	1.48	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	6160	1.62	1.03	1.126
2,2',3,4,4',6,6'-HpCB	184			56.4	1.17	1.04	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		1.28		
2,2',3,4',5,5',6-HpCB	187		B	18700	1.57	1.03	1.110
2,2',3,4',5,6,6'-HpCB	188			78.5	1.12	1.10	1.000
2,3,3',4,4',5,5'-HpCB	189			183	2.47	1.05	1.000
2,3,3',4,4',5,6-HpCB	190			859	1.49	1.07	0.947
2,3,3',4,4',5',6-HpCB	191			227	1.42	1.05	0.917
2,3,3',4,5,5',6-HpCB	192		U		1.57		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1760	2.11	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			526	2.26	0.93	0.946
2,2',3,3',4,4',5,6'-OxCB	196			1490	1.33	0.90	0.915
2,2',3,3',4,4',6-OxCB	197	197 + 200	C	369	0.973	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	3760	1.36	0.89	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			718	0.946	0.89	1.022
2,2',3,3',5,5',6,6'-OxCB	202			1730	1.00	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			1910	1.32	0.92	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	5.36	0.966	0.62	1.038
2,3,3',4,4',5,5',6-OxCB	205			77.8	2.07	0.84	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	913	1.78	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	174	1.49	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			718	1.41	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	635	1.09	0.67	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-9_Form1A_PB9C_358S10_SJ1084303_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 2 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 25-Nov-2009 Time: 18:02:24

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-9 L
Sample Size: 0.148 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 10
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 78.4
% Lipid: 1.45

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	270	18.2	3.15	1.000
3-MoCB	2		K	26.0	21.8	4.95	0.987
4-MoCB	3		K B	41.2	21.5	4.21	1.000
2,2'-DiCB	4			1960	104	1.58	1.001
2,3-DiCB	5		U		70.6		
2,3'-DiCB	6			477	61.8	1.51	1.176
2,4-DiCB	7		U		61.9		
2,4'-DiCB	8		B	1760	56.8	1.57	1.207
2,5-DiCB	9			114	60.6	1.61	1.144
2,6-DiCB	10		U		53.9		
3,3'-DiCB	11		B	1910	68.4	1.59	0.969
3,4-DiCB	12	12 + 13	C U		68.2		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		66.8		
4,4'-DiCB	15			567	69.0	1.66	1.000
2,2',3-TriCB	16		B	1530	24.5	1.03	1.165
2,2',4-TriCB	17		B	1710	21.0	1.10	1.137
2,2',5-TriCB	18	18 + 30	C B	4270	17.7	1.03	1.112
2,2',6-TriCB	19			769	23.1	1.04	1.001
2,3,3'-TriCB	20	20 + 28	C B	21500	16.4	1.03	0.848
2,3,4-TriCB	21	21 + 33	C B	3180	15.5	1.00	0.857
2,3,4'-TriCB	22		B	3970	18.1	0.98	0.872
2,3,5-TriCB	23		U		16.9		
2,3,6-TriCB	24		K	94.6	15.5	0.70	1.157
2,3',4-TriCB	25			1340	14.4	1.03	0.824
2,3',5-TriCB	26	26 + 29	C	3160	16.5	1.02	1.299
2,3',6-TriCB	27		K	558	15.0	1.24	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	10700	15.4	1.03	0.836
2,4',6-TriCB	32		B	2180	15.6	1.02	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	64.4	17.5	1.24	1.271
3,3',4-TriCB	35		U		19.1		
3,3',5-TriCB	36		U		16.8		
3,4,4'-TriCB	37		B	1420	18.8	1.05	1.001
3,4,5-TriCB	38		K	63.2	16.6	0.81	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			128	17.2	1.04	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	7910	22.2	0.77	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			7980	22.6	0.79	1.311
2,2',3,5'-TeCB	43			805	26.3	0.82	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	38200	20.2	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	1940	21.5	0.82	1.146
2,2',3,6'-TeCB	46			484	24.4	0.73	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	1950	22.1	0.81	1.272
2,2',4,5'-TeCB	49	49 + 69	C B	21900	18.8	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	2380	21.0	0.84	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	52400	20.8	0.77	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	29.3	17.4	1.59	1.001
2,3,3',4'-TeCB	55		U		177		
2,3,3',4'-TeCB	56		B	13200	173	0.77	0.905
2,3,3',5'-TeCB	57			467	160	0.86	0.843
2,3,3',5'-TeCB	58			502	162	0.79	0.850
2,3,3',6'-TeCB	59	59 + 62 + 75	C	3920	16.9	0.78	1.301
2,3,4,4'-TeCB	60		B	13600	181	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	75500	162	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			3780	157	0.81	0.864
2,3,4',6'-TeCB	64		B	13200	16.2	0.77	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	64400	165	0.78	0.884
2,3',4,5'-TeCB	67			1490	138	0.80	0.855
2,3',4,5'-TeCB	68			1750	161	0.77	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			2340	155	0.75	0.821
2,3',5',6'-TeCB	73		U		16.4		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			5840	169	0.77	1.000
3,3',4,5'-TeCB	78		U		183		
3,3',4,5'-TeCB	79			1660	145	0.74	0.969
3,3',5,5'-TeCB	80		U		160		
3,4,4',5'-TeCB	81		K	269	186	1.05	1.000
2,2',3,3',4'-PeCB	82			10200	150	1.52	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	138000	139	1.57	0.885
2,2',3,3',6'-PeCB	84		B	18100	146	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	53400	116	1.54	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	94600	117	1.56	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	17400	132	1.54	1.155
2,2',3,4,6'-PeCB	89			395	139	1.45	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	206000	119	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	48800	136	1.58	0.852
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	91800	126	1.56	1.121
2,2',3,5,6'-PeCB	94			402	142	1.65	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			189	28.9	1.39	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			1880	117	1.63	1.093
2,2',4,6,6'-PeCB	104		U		27.5		
2,3,3',4,4'-PeCB	105		B	111000	75.5	1.54	1.000
2,3,3',4,5-PeCB	106		U		75.5		
2,3,3',4',5-PeCB	107	107 + 124	C	7620	76.9	1.53	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			30200	73.4	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	151000	104	1.56	0.925
2,3,3',5,5'-PeCB	111			840	104	1.57	0.945
2,3,3',5,6-PeCB	112		U		98.1		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			4800	88.2	1.49	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	290000	78.4	1.55	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			3970	99.5	1.52	0.958
2,3',4,5',6-PeCB	121			180	104	1.69	1.198
2',3,3',4,5-PeCB	122			1410	84.0	1.46	1.011
2',3,4,4',5-PeCB	123			4770	87.5	1.59	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			1120	104	1.59	1.000
3,3',4,5,5'-PeCB	127			636	85.4	1.63	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	89600	97.4	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	558000	96.0	1.25	0.929
2,2',3,3',4,5'-HxCB	130			31100	118	1.26	0.913
2,2',3,3',4,6-HxCB	131			2390	109	1.31	1.161
2,2',3,3',4,6'-HxCB	132		B	54400	112	1.27	1.177
2,2',3,3',5,5'-HxCB	133			11500	104	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	15500	112	1.25	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	124000	24.8	1.25	1.105
2,2',3,3',6,6'-HxCB	136		B	19400	19.0	1.26	1.026
2,2',3,4,4',5-HxCB	137			16100	120	1.23	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	7910	100	1.27	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			32400	101	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		108		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			11100	25.7	1.24	1.123
2,2',3,4,6,6'-HxCB	145		K	50.7	20.1	0.78	1.036
2,2',3,4',5,5'-HxCB	146		B	114000	89.6	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	203000	96.7	1.25	1.135
2,2',3,4',5,6'-HxCB	148			1910	26.3	1.19	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			681	19.0	1.23	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	114	18.6	1.51	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	633000	83.3	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			1030	16.2	1.23	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	46500	118	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			39200	76.2	1.25	0.938
2,3,3',4,5,5'-HxCB	159			1810	86.1	1.22	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		79.8		
2,3,3',4',5,5'-HxCB	162			2460	88.9	1.29	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			14600	79.1	1.28	0.922
2,3,3',5,5',6-HxCB	165			748	91.1	1.08	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			22200	80.5	1.22	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		471		
2,2',3,3',4,4',5-HpCB	170		B	78400	28.8	1.03	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	32400	27.3	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			16400	27.8	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			38300	25.0	1.02	1.134
2,2',3,3',4,5',6-HpCB	175			6280	24.7	1.07	1.102
2,2',3,3',4,6,6'-HpCB	176			6950	18.2	1.02	1.034
2,2',3,3',4',5,6-HpCB	177		B	70600	24.6	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			37700	24.2	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179			25200	17.6	1.03	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	226000	22.1	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			676	25.8	1.07	1.157
2,2',3,4,4',5,6'-HpCB	182		K	1200	23.4	1.48	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	91800	24.1	1.03	1.126
2,2',3,4,4',6,6'-HpCB	184			840	17.4	1.04	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		19.1		
2,2',3,4',5,5',6-HpCB	187		B	278000	23.4	1.03	1.110
2,2',3,4',5,6,6'-HpCB	188			1170	16.7	1.10	1.000
2,3,3',4,4',5,5'-HpCB	189			2730	36.8	1.05	1.000
2,3,3',4,4',5,6-HpCB	190			12800	22.2	1.07	0.947
2,3,3',4,4',5',6-HpCB	191			3390	21.2	1.05	0.917
2,3,3',4,5,5',6-HpCB	192		U		23.4		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			26200	31.5	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			7840	33.7	0.93	0.946
2,2',3,3',4,4',5,6'-OxCB	196			22200	19.8	0.90	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	5500	14.5	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	56000	20.2	0.89	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			10700	14.1	0.89	1.022
2,2',3,3',5,5',6,6'-OxCB	202			25800	14.9	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			28400	19.7	0.92	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	79.8	14.4	0.62	1.038
2,3,3',4,4',5,5',6-OxCB	205			1160	30.8	0.84	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	13600	26.5	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	2590	22.2	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			10700	21.0	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	9460	16.2	0.67	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-9_Form1A_PB9C_358S10_SJ1084303_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
North River- 2 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 25-Nov-2009 Time: 18:02:24
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-9 L
Sample Size: 10.4 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 10
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 78.4
% Lipid: 1.45

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	737	36.9	3.31	0.722
13C12-4-MoCB	3L			2000	926	46.3	3.13	0.861
13C12-2,2'-DiCB	4L			2000	1060	52.8	1.57	0.874
13C12-4,4'-DiCB	15L			2000	1360	68.1	1.57	1.254
13C12-2,2',6-TriCB	19L			2000	1540	77.0	1.04	1.072
13C12-3,4,4'-TriCB	37L			2000	1210	60.6	1.06	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1230	61.7	0.80	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1690	84.4	0.80	1.397
13C12-3,4,4',5-TeCB	81L			2000	1600	80.0	0.78	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1440	72.0	1.58	0.808
13C12-2,3,3',4,4'-PeCB	105L			2000	1460	73.2	1.55	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1240	62.2	1.59	1.179
13C12-2,3',4,4',5-PeCB	118L			2000	1400	70.0	1.53	1.161
13C12-2',3,4,4',5-PeCB	123L			2000	1340	66.8	1.56	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1320	65.9	1.59	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1600	80.1	1.30	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2910	72.8	1.30	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1530	76.5	1.30	1.078
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1500	74.8	1.31	1.192
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1780	88.9	1.03	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1850	92.7	1.04	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1760	88.1	1.07	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1410	70.3	1.04	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	2180	109	0.92	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1530	76.5	0.92	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2530	126	0.82	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1780	89.2	0.82	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	2000	100	1.17	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1280	64.2	1.07	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1890	94.6	1.58	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1880	94.0	1.04	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: Brian Watson QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River -10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 Time: 02:35:24

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-10

Sample Size: 10.4 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 7

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 78.4
% Lipid: 1.86

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	24.0	0.0479	3.08	1.000
3-MoCB	2			0.732	0.0485	3.21	0.988
4-MoCB	3		B	3.59	0.0518	3.20	1.000
2,2'-DiCB	4			139	0.209	1.52	1.001
2,3-DiCB	5			0.442	0.156	1.51	1.196
2,3'-DiCB	6			9.64	0.137	1.48	1.174
2,4-DiCB	7			1.82	0.141	1.45	1.157
2,4'-DiCB	8		B	29.4	0.126	1.52	1.205
2,5-DiCB	9			2.81	0.138	1.54	1.145
2,6-DiCB	10			6.77	0.130	1.60	1.014
3,3'-DiCB	11		B	16.7	0.158	1.64	0.968
3,4-DiCB	12	12 + 13	C	1.53	0.158	1.78	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.151		
4,4'-DiCB	15			9.85	0.170	1.52	1.001
2,2',3-TriCB	16		B	20.1	0.0706	1.07	1.166
2,2',4-TriCB	17		B	34.4	0.0605	1.06	1.137
2,2',5-TriCB	18	18 + 30	C B	101	0.0505	1.06	1.113
2,2',6-TriCB	19			29.6	0.0618	1.04	1.001
2,3,3'-TriCB	20	20 + 28	C B	531	0.0829	1.01	0.848
2,3,4-TriCB	21	21 + 33	C B	69.1	0.0749	1.01	0.857
2,3,4'-TriCB	22		B	98.6	0.0901	1.02	0.872
2,3,5-TriCB	23		K	0.166	0.0803	0.86	1.282
2,3,6-TriCB	24			1.87	0.0479	0.99	1.158
2,3',4-TriCB	25			33.7	0.0668	1.01	0.825
2,3',5-TriCB	26	26 + 29	C	77.8	0.0794	1.02	1.299
2,3',6-TriCB	27			16.5	0.0479	1.07	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	250	0.0746	1.01	0.837
2,4',6-TriCB	32		B	58.3	0.0726	1.00	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			0.932	0.0807	1.13	1.272
3,3',4-TriCB	35		K	0.141	0.104	0.56	0.987
3,3',5-TriCB	36		U		0.0857		
3,4,4'-TriCB	37		B	17.3	0.0963	1.00	1.001
3,4,5-TriCB	38			1.94	0.0849	0.99	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			2.43	0.0864	0.91	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	239	0.0627	0.78	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			249	0.0633	0.79	1.310
2,2',3,5'-TeCB	43			19.3	0.0677	0.77	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	1120	0.0558	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	68.0	0.0580	0.80	1.146
2,2',3,6'-TeCB	46			13.7	0.0658	0.78	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	52.4	0.0623	0.79	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	700	0.0523	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	90.6	0.0562	0.79	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	1620	0.0583	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			1.48	0.0479	0.79	1.001
2,3,3',4'-TeCB	55		U		0.453		
2,3,3',4'-TeCB	56		B	299	0.459	0.76	0.905
2,3,3',5'-TeCB	57			9.78	0.416	0.79	0.843
2,3,3',5'-TeCB	58			9.07	0.420	0.74	0.852
2,3,3',6'-TeCB	59	59 + 62 + 75	C	108	0.0479	0.79	1.299
2,3,4,4'-TeCB	60		B	286	0.471	0.76	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	1680	0.414	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			95.9	0.419	0.75	0.864
2,3,4',6'-TeCB	64		B	345	0.0479	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	1510	0.423	0.76	0.884
2,3',4,5'-TeCB	67			33.0	0.367	0.74	0.856
2,3',4,5'-TeCB	68			40.9	0.403	0.76	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			54.8	0.398	0.75	0.822
2,3',5',6'-TeCB	73		U		0.0479		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			95.9	0.435	0.76	1.000
3,3',4,5'-TeCB	78		U		0.477		
3,3',4,5'-TeCB	79			47.2	0.378	0.74	0.969
3,3',5,5'-TeCB	80		U		0.416		
3,4,4',5'-TeCB	81			3.82	0.454	0.78	1.001
2,2',3,3',4'-PeCB	82			250	2.62	1.57	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	2890	2.45	1.58	0.886
2,2',3,3',6'-PeCB	84		B	490	2.59	1.57	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	1060	2.04	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	2390	2.06	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	475	2.28	1.59	1.154
2,2',3,4,6'-PeCB	89			8.55	2.44	1.67	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	1120	2.43	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	2690	2.19	1.57	1.122
2,2',3,5,6'-PeCB	94			10.2	2.44	1.51	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			3.65	0.0881	1.54	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			59.4	2.04	1.58	1.093
2,2',4,6,6'-PeCB	104		K	0.565	0.0980	2.06	1.001
2,3,3',4,4'-PeCB	105		B	2130	6.06	1.52	1.000
2,3,3',4,5-PeCB	106		U		6.02		
2,3,3',4',5-PeCB	107	107 + 124	C	143	6.45	1.47	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			656	6.66	1.51	0.998
2,3,3',4',6-PeCB	110	110 + 115	C B	4020	1.80	1.58	0.925
2,3,3',5,5'-PeCB	111			13.6	1.79	1.64	0.945
2,3,3',5,6-PeCB	112		U		1.72		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			89.9	6.82	1.52	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			70.9	1.67	1.57	0.958
2,3',4,5',6-PeCB	121			3.71	1.81	1.62	1.198
2',3,3',4,5-PeCB	122			26.9	7.08	1.59	1.010
2',3,4,4',5-PeCB	123			83.1	7.02	1.52	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			18.5	7.91	1.53	1.000
3,3',4,5,5'-PeCB	127			11.4	6.84	1.46	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C X				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			14.3	0.0772	1.22	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	965	3.25	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			474	2.27	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		B	1370	0.100	1.04	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	543	0.109	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			276	0.110	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			728	0.0946	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			101	0.0997	1.03	1.102
2,2',3,3',4,6,6'-HpCB	176			139	0.0736	1.03	1.035
2,2',3,3',4',5,6-HpCB	177		B	1170	0.0977	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			702	0.102	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179			526	0.0712	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	3990	0.0814	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			13.4	0.106	1.06	1.156
2,2',3,4,4',5,6'-HpCB	182			19.3	0.0977	1.09	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	1700	0.100	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			10.6	0.0733	1.01	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.0821		
2,2',3,4',5,5',6-HpCB	187		B	4880	0.0955	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			18.1	0.0715	1.07	1.000
2,3,3',4,4',5,5'-HpCB	189			59.6	0.260	1.01	1.001
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191			53.9	0.0722	1.05	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.0923		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			633	0.224	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			201	0.245	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			374	0.0783	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	83.7	0.0584	0.92	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			165	0.0583	0.90	1.022
2,2',3,3',5,5',6,6'-OxCB	202			475	0.0718	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			547	0.0773	0.91	0.920
2,2',3,4,4',5,6,6'-OxCB	204		K	1.18	0.0595	1.07	1.038
2,3,3',4,4',5,5',6-OxCB	205			26.5	0.188	0.86	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	364	0.191	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	61.4	0.130	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			198	0.100	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	191	0.0990	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; X = result reported separately; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-10_Form1A_PB9C_330S7_SJ1077653.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River -10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 Time: 02:35:24

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-10
Sample Size: 2.25 g (dry)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 7
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 78.4
% Lipid: 1.86

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	111	0.222	3.08	1.000
3-MoCB	2			3.39	0.225	3.21	0.988
4-MoCB	3		B	16.6	0.240	3.20	1.000
2,2'-DiCB	4			644	0.967	1.52	1.001
2,3-DiCB	5			2.05	0.722	1.51	1.196
2,3'-DiCB	6			44.7	0.635	1.48	1.174
2,4-DiCB	7			8.43	0.653	1.45	1.157
2,4'-DiCB	8		B	136	0.584	1.52	1.205
2,5-DiCB	9			13.0	0.639	1.54	1.145
2,6-DiCB	10			31.4	0.602	1.60	1.014
3,3'-DiCB	11		B	77.3	0.732	1.64	0.968
3,4-DiCB	12	12 + 13	C	7.08	0.732	1.78	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.700		
4,4'-DiCB	15			45.6	0.788	1.52	1.001
2,2',3-TriCB	16		B	93.3	0.327	1.07	1.166
2,2',4-TriCB	17		B	159	0.280	1.06	1.137
2,2',5-TriCB	18	18 + 30	C B	468	0.234	1.06	1.113
2,2',6-TriCB	19			137	0.286	1.04	1.001
2,3,3'-TriCB	20	20 + 28	C B	2460	0.384	1.01	0.848
2,3,4-TriCB	21	21 + 33	C B	320	0.347	1.01	0.857
2,3,4'-TriCB	22		B	457	0.417	1.02	0.872
2,3,5-TriCB	23		K	0.769	0.372	0.86	1.282
2,3,6-TriCB	24			8.64	0.222	0.99	1.158
2,3',4-TriCB	25			156	0.309	1.01	0.825
2,3',5-TriCB	26	26 + 29	C	360	0.368	1.02	1.299
2,3',6-TriCB	27			76.4	0.222	1.07	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	1160	0.346	1.01	0.837
2,4',6-TriCB	32		B	270	0.336	1.00	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			4.32	0.374	1.13	1.272
3,3',4-TriCB	35		K	0.653	0.482	0.56	0.987
3,3',5-TriCB	36		U		0.397		
3,4,4'-TriCB	37		B	80.2	0.446	1.00	1.001
3,4,5-TriCB	38			8.98	0.393	0.99	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			11.2	0.400	0.91	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	1110	0.290	0.78	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			1160	0.293	0.79	1.310
2,2',3,5'-TeCB	43			89.0	0.314	0.77	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	5190	0.258	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	315	0.269	0.80	1.146
2,2',3,6'-TeCB	46			63.5	0.305	0.78	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	243	0.289	0.79	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	3240	0.242	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	420	0.260	0.79	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	7510	0.270	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			6.86	0.222	0.79	1.001
2,3,3',4'-TeCB	55		U		2.10		
2,3,3',4'-TeCB	56		B	1380	2.12	0.76	0.905
2,3,3',5'-TeCB	57			45.3	1.93	0.79	0.843
2,3,3',5'-TeCB	58			42.0	1.94	0.74	0.852
2,3,3',6'-TeCB	59	59 + 62 + 75	C	500	0.222	0.79	1.299
2,3,4,4'-TeCB	60		B	1320	2.19	0.76	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	7780	1.92	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			444	1.94	0.75	0.864
2,3,4',6'-TeCB	64		B	1600	0.222	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	7000	1.96	0.76	0.884
2,3',4,5'-TeCB	67			153	1.70	0.74	0.856
2,3',4,5'-TeCB	68			189	1.87	0.76	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			254	1.84	0.75	0.822
2,3',5',6'-TeCB	73		U		0.222		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			444	2.01	0.76	1.000
3,3',4,5'-TeCB	78		U		2.21		
3,3',4,5'-TeCB	79			219	1.75	0.74	0.969
3,3',5,5'-TeCB	80		U		1.93		
3,4,4',5'-TeCB	81			17.7	2.10	0.78	1.001
2,2',3,3',4'-PeCB	82			1160	12.1	1.57	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	13400	11.3	1.58	0.886
2,2',3,3',6'-PeCB	84		B	2270	12.0	1.57	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	4910	9.42	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	11100	9.50	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	2200	10.5	1.59	1.154
2,2',3,4,6'-PeCB	89			39.6	11.3	1.67	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	5190	11.2	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	12400	10.1	1.57	1.122
2,2',3,5,6'-PeCB	94			47.2	11.3	1.51	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			16.9	0.408	1.54	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			276	9.42	1.58	1.093
2,2',4,6,6'-PeCB	104		K	2.62	0.453	2.06	1.001
2,3,3',4,4'-PeCB	105		B	9850	28.1	1.52	1.000
2,3,3',4,5-PeCB	106		U		27.9		
2,3,3',4',5-PeCB	107	107 + 124	C	663	29.9	1.47	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			3040	30.8	1.51	0.998
2,3,3',4',6-PeCB	110	110 + 115	C B	18700	8.34	1.58	0.925
2,3,3',5,5'-PeCB	111			63.0	8.29	1.64	0.945
2,3,3',5,6-PeCB	112		U		7.96		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			416	31.6	1.52	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			328	7.73	1.57	0.958
2,3',4,5',6-PeCB	121			17.2	8.39	1.62	1.198
2',3,3',4,5-PeCB	122			124	32.8	1.59	1.010
2',3,4,4',5-PeCB	123			385	32.5	1.52	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			85.7	36.6	1.53	1.000
3,3',4,5,5'-PeCB	127			52.8	31.7	1.46	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C X				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			66.3	0.358	1.22	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	4470	15.0	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5',5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			2190	10.5	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		B	6350	0.463	1.04	0.937
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C	2510	0.504	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			1280	0.510	1.04	0.897
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			3370	0.438	1.05	1.134
2,2',3,3',4,5',6'-HpCB	175			468	0.462	1.03	1.102
2,2',3,3',4,6',6'-HpCB	176			644	0.341	1.03	1.035
2,2',3,3',4',5,6'-HpCB	177		B	5420	0.453	1.05	1.146
2,2',3,3',5,5',6'-HpCB	178			3250	0.472	1.04	1.085
2,2',3,3',5,6',6'-HpCB	179			2440	0.330	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	18500	0.377	1.05	0.910
2,2',3,4,4',5,6'-HpCB	181			62.1	0.491	1.06	1.156
2,2',3,4,4',5,6'-HpCB	182			89.0	0.453	1.09	1.116
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C	7880	0.463	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			49.1	0.339	1.01	1.024
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.380		
2,2',3,4',5,5',6'-HpCB	187		B	22600	0.442	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			83.9	0.331	1.07	1.000
2,3,3',4,4',5,5'-HpCB	189			276	1.20	1.01	1.001
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191			250	0.334	1.05	0.918
2,3,3',4,5,5',6'-HpCB	192		U		0.428		
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194			2930	1.04	0.89	0.991
2,2',3,3',4,4',5,6'-OcCB	195			933	1.13	0.90	0.946
2,2',3,3',4,4',5,6'-OcCB	196			1740	0.363	0.90	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	388	0.270	0.92	1.045
2,2',3,3',4,5,5',6'-OcCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201			764	0.270	0.90	1.022
2,2',3,3',5,5',6,6'-OcCB	202			2200	0.333	0.91	1.000
2,2',3,4,4',5,5',6'-OcCB	203			2530	0.358	0.91	0.920
2,2',3,4,4',5,6,6'-OcCB	204		K	5.47	0.276	1.07	1.038
2,3,3',4,4',5,5',6'-OcCB	205			123	0.872	0.86	1.000
2,2',3,3',4,4',5,5',6'-NoCB	206		T	1680	0.881	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	284	0.602	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			916	0.463	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	881	0.459	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; X = result reported separately; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-10_Form1A_PB9C_330S7_SJ1077653_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River -10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-10

Matrix: TISSUE

Sample Size: 0.195 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 Time: 02:35:24

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_330 S: 7

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_330 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 78.4
% Lipid: 1.86

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	1290	2.57	3.08	1.000
3-MoCB	2			39.3	2.60	3.21	0.988
4-MoCB	3		B	192	2.78	3.20	1.000
2,2'-DiCB	4			7450	11.2	1.52	1.001
2,3-DiCB	5			23.7	8.36	1.51	1.196
2,3'-DiCB	6			517	7.35	1.48	1.174
2,4-DiCB	7			97.6	7.56	1.45	1.157
2,4'-DiCB	8		B	1580	6.76	1.52	1.205
2,5-DiCB	9			151	7.40	1.54	1.145
2,6-DiCB	10			363	6.97	1.60	1.014
3,3'-DiCB	11		B	895	8.47	1.64	0.968
3,4-DiCB	12	12 + 13	C	82.0	8.47	1.78	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		8.10		
4,4'-DiCB	15			528	9.12	1.52	1.001
2,2',3-TriCB	16		B	1080	3.79	1.07	1.166
2,2',4-TriCB	17		B	1840	3.24	1.06	1.137
2,2',5-TriCB	18	18 + 30	C B	5420	2.71	1.06	1.113
2,2',6-TriCB	19			1590	3.31	1.04	1.001
2,3,3'-TriCB	20	20 + 28	C B	28500	4.45	1.01	0.848
2,3,4-TriCB	21	21 + 33	C B	3710	4.02	1.01	0.857
2,3,4'-TriCB	22		B	5290	4.83	1.02	0.872
2,3,5-TriCB	23		K	8.90	4.31	0.86	1.282
2,3,6-TriCB	24			100	2.57	0.99	1.158
2,3',4-TriCB	25			1810	3.58	1.01	0.825
2,3',5-TriCB	26	26 + 29	C	4170	4.26	1.02	1.299
2,3',6-TriCB	27			885	2.57	1.07	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	13400	4.00	1.01	0.837
2,4',6-TriCB	32		B	3130	3.89	1.00	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			50.0	4.33	1.13	1.272
3,3',4-TriCB	35		K	7.56	5.58	0.56	0.987
3,3',5-TriCB	36		U		4.60		
3,4,4'-TriCB	37		B	928	5.16	1.00	1.001
3,4,5-TriCB	38			104	4.55	0.99	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			130	4.63	0.91	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	12800	3.36	0.78	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			13400	3.39	0.79	1.310
2,2',3,5'-TeCB	43			1030	3.63	0.77	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	60100	2.99	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	3650	3.11	0.80	1.146
2,2',3,6'-TeCB	46			735	3.53	0.78	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	2810	3.34	0.79	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	37500	2.80	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	4860	3.01	0.79	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	86900	3.13	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			79.4	2.57	0.79	1.001
2,3,3',4'-TeCB	55		U		24.3		
2,3,3',4'-TeCB	56		B	16000	24.6	0.76	0.905
2,3,3',5'-TeCB	57			524	22.3	0.79	0.843
2,3,3',5'-TeCB	58			486	22.5	0.74	0.852
2,3,3',6'-TeCB	59	59 + 62 + 75	C	5790	2.57	0.79	1.299
2,3,4,4'-TeCB	60		B	15300	25.3	0.76	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	90100	22.2	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			5140	22.5	0.75	0.864
2,3,4',6'-TeCB	64		B	18500	2.57	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	81000	22.7	0.76	0.884
2,3',4,5'-TeCB	67			1770	19.7	0.74	0.856
2,3',4,5'-TeCB	68			2190	21.6	0.76	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			2940	21.3	0.75	0.822
2,3',5',6'-TeCB	73		U		2.57		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			5140	23.3	0.76	1.000
3,3',4,5'-TeCB	78		U		25.6		
3,3',4,5'-TeCB	79			2530	20.3	0.74	0.969
3,3',5,5'-TeCB	80		U		22.3		
3,4,4',5'-TeCB	81			205	24.3	0.78	1.001
2,2',3,3',4'-PeCB	82			13400	140	1.57	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	155000	131	1.58	0.886
2,2',3,3',6'-PeCB	84		B	26300	139	1.57	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	56800	109	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	128000	110	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	25500	122	1.59	1.154
2,2',3,4,6'-PeCB	89			458	131	1.67	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	60100	130	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	144000	117	1.57	1.122
2,2',3,5,6'-PeCB	94			547	131	1.51	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			196	4.72	1.54	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			3190	109	1.58	1.093
2,2',4,6,6'-PeCB	104		K	30.3	5.25	2.06	1.001
2,3,3',4,4'-PeCB	105		B	114000	325	1.52	1.000
2,3,3',4,5-PeCB	106		U		323		
2,3,3',4',5-PeCB	107	107 + 124	C	7670	346	1.47	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			35200	357	1.51	0.998
2,3,3',4',6-PeCB	110	110 + 115	C B	216000	96.5	1.58	0.925
2,3,3',5,5'-PeCB	111			729	96.0	1.64	0.945
2,3,3',5,6-PeCB	112		U		92.2		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			4820	366	1.52	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			3800	89.5	1.57	0.958
2,3',4,5',6-PeCB	121			199	97.1	1.62	1.198
2',3,3',4,5-PeCB	122			1440	380	1.59	1.010
2',3,4,4',5-PeCB	123			4460	376	1.52	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			992	424	1.53	1.000
3,3',4,5,5'-PeCB	127			611	367	1.46	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C X				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			767	4.14	1.22	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	51700	174	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			25400	122	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		B	73500	5.36	1.04	0.937
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C	29100	5.84	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			14800	5.90	1.04	0.897
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			39000	5.07	1.05	1.134
2,2',3,3',4,5',6'-HpCB	175			5420	5.35	1.03	1.102
2,2',3,3',4,6',6'-HpCB	176			7450	3.95	1.03	1.035
2,2',3,3',4',5,6'-HpCB	177		B	62700	5.24	1.05	1.146
2,2',3,3',5,5',6'-HpCB	178			37600	5.47	1.04	1.085
2,2',3,3',5,6',6'-HpCB	179			28200	3.82	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	214000	4.36	1.05	0.910
2,2',3,4,4',5,6'-HpCB	181			719	5.68	1.06	1.156
2,2',3,4,4',5,6'-HpCB	182			1030	5.24	1.09	1.116
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C	91200	5.36	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			568	3.93	1.01	1.024
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		4.40		
2,2',3,4',5,5',6'-HpCB	187		B	262000	5.12	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			971	3.83	1.07	1.000
2,3,3',4,4',5,5'-HpCB	189			3200	13.9	1.01	1.001
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191			2890	3.87	1.05	0.918
2,3,3',4,5,5',6'-HpCB	192		U		4.95		
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			33900	12.0	0.89	0.991
2,2',3,3',4,4',5,6'-OxCB	195			10800	13.1	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			20100	4.20	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	4490	3.13	0.92	1.045
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			8850	3.13	0.90	1.022
2,2',3,3',5,5',6,6'-OxCB	202			25500	3.85	0.91	1.000
2,2',3,4,4',5,5',6'-OxCB	203			29300	4.14	0.91	0.920
2,2',3,4,4',5,6,6'-OxCB	204		K	63.3	3.19	1.07	1.038
2,3,3',4,4',5,5',6'-OxCB	205			1420	10.1	0.86	1.000
2,2',3,3',4,4',5,5',6'-NoCB	206		T	19500	10.2	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	3290	6.97	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			10600	5.36	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	10200	5.31	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; X = result reported separately; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-10_Form1A_PB9C_330S7_SJ1077653_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River -10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 26-Nov-2009 Time: 01:46:08

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-10 W

Sample Size: 10.4 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_359 S: 6

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_359 S: 1

% Moisture: 78.4
% Lipid: 1.86

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	5180	7.10	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	6000	17.9	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C D	1710	9.55	1.25	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	11700	9.39	1.25	0.929
2,2',3,3',4,5'-HxCB	130		D	672	11.6	1.22	0.913
2,2',3,3',4,6-HxCB	131		D	66.3	11.0	1.21	1.161
2,2',3,3',4,6'-HxCB	132		B D	1370	11.2	1.27	1.176
2,2',3,3',5,5'-HxCB	133		D	248	10.2	1.20	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C D	347	10.9	1.26	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B D	2600	0.757	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B D	447	0.581	1.27	1.026
2,2',3,4,4',5-HxCB	137		D	324	11.0	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C D	176	9.99	1.25	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		D	791	10.1	1.24	0.904
2,2',3,4,5,6-HxCB	142		U D		11.2		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		D	273	0.784	1.24	1.122
2,2',3,4,6,6'-HxCB	145		K D	1.81	0.626	1.96	1.034
2,2',3,4',5,5'-HxCB	146		B D	2490	9.35	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B D	5120	9.85	1.25	1.134
2,2',3,4',5,6'-HxCB	148		D	32.4	0.796	1.30	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		D	15.6	0.609	1.18	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K D	1.61	0.562	1.63	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	13200	8.08	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		D	846	7.39	1.27	0.938
2,3,3',4,4',5'-HxCB	159		D	45.6	8.19	1.27	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U D		7.62		
2,3,3',4',5,5'-HxCB	162		D	41.3	8.15	1.28	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		D	329	7.71	1.26	0.921
2,3,3',5,5',6-HxCB	165		D	15.9	8.84	1.28	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U D		9.46		
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6',6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		D	251	0.557	1.01	0.947
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		X				
2,2',3,3',4,4',5,6'-OcCB	195		X				
2,2',3,3',4,4',5,6'-OcCB	196		X				
2,2',3,3',4,4',6'-OcCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OcCB	198	198 + 199	C D	995	0.678	0.89	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201		X				
2,2',3,3',5,5',6,6'-OcCB	202		X				
2,2',3,4,4',5,5',6'-OcCB	203		X				
2,2',3,4,4',5,6,6'-OcCB	204		X				
2,3,3',4,4',5,5',6'-OcCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-10_Form1A_PB9C_359S6_SJ1084466.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River -10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 26-Nov-2009 Time: 01:46:08

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-10 W

Sample Size: 2.25 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_359 S: 6

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_359 S: 1

% Moisture: 78.4
% Lipid: 1.86

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	24000	32.9	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	27800	82.9	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C D	7920	44.2	1.25	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	54200	43.5	1.25	0.929
2,2',3,3',4,5'-HxCB	130		D	3110	53.7	1.22	0.913
2,2',3,3',4,6-HxCB	131		D	308	51.0	1.21	1.161
2,2',3,3',4,6'-HxCB	132		B D	6350	51.9	1.27	1.176
2,2',3,3',5,5'-HxCB	133		D	1150	47.2	1.20	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C D	1610	50.4	1.26	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B D	12000	3.51	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B D	2070	2.70	1.27	1.026
2,2',3,4,4',5-HxCB	137		D	1500	51.0	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C D	815	46.3	1.25	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		D	3660	46.8	1.24	0.904
2,2',3,4,5,6-HxCB	142		U D		51.9		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		D	1260	3.63	1.24	1.122
2,2',3,4,6,6'-HxCB	145		K D	8.39	2.90	1.96	1.034
2,2',3,4',5,5'-HxCB	146		B D	11600	43.3	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B D	23800	45.6	1.25	1.134
2,2',3,4',5,6'-HxCB	148		D	150	3.69	1.30	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		D	72.2	2.82	1.18	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K D	7.45	2.60	1.63	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	61200	37.4	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		D	3920	34.2	1.27	0.938
2,3,3',4,4',5'-HxCB	159		D	212	37.9	1.27	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U D		35.3		
2,3,3',4',5,5'-HxCB	162		D	191	37.7	1.28	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		D	1520	35.7	1.26	0.921
2,3,3',5,5',6-HxCB	165		D	73.7	40.9	1.28	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U D		43.8		
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		D	1170	2.58	1.01	0.947
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C D	4610	3.14	0.89	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-10_Form1A_PB9C_359S6_SJ1084466_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River -10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 26-Nov-2009 Time: 01:46:08

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-10 W
Sample Size: 0.195 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_359 S: 6
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_359 S: 1
% Moisture: 78.4
% Lipid: 1.86

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	278000	381	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	322000	960	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C D	91700	512	1.25	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	627000	504	1.25	0.929
2,2',3,3',4,5'-HxCB	130		D	36000	622	1.22	0.913
2,2',3,3',4,6-HxCB	131		D	3560	590	1.21	1.161
2,2',3,3',4,6'-HxCB	132		B D	73500	601	1.27	1.176
2,2',3,3',5,5'-HxCB	133		D	13300	547	1.20	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C D	18600	584	1.26	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B D	139000	40.6	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B D	24000	31.2	1.27	1.026
2,2',3,4,4',5-HxCB	137		D	17400	590	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C D	9440	536	1.25	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		D	42400	542	1.24	0.904
2,2',3,4,5,6-HxCB	142		U D		601		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		D	14600	42.0	1.24	1.122
2,2',3,4,6,6'-HxCB	145		K D	97.1	33.6	1.96	1.034
2,2',3,4',5,5'-HxCB	146		B D	134000	501	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B D	275000	528	1.25	1.134
2,2',3,4',5,6'-HxCB	148		D	1740	42.7	1.30	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		D	836	32.7	1.18	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K D	86.3	30.1	1.63	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	708000	433	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		D	45400	396	1.27	0.938
2,3,3',4,5,5'-HxCB	159		D	2450	439	1.27	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U D		409		
2,3,3',4',5,5'-HxCB	162		D	2210	437	1.28	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		D	17600	413	1.26	0.921
2,3,3',5,5',6-HxCB	165		D	853	474	1.28	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U D		507		
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		D	13500	29.9	1.01	0.947
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C D	53400	36.4	0.89	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-10_Form1A_PB9C_359S6_SJ1084466_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River -10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 30-Oct-2009 Time: 02:35:24
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-10
Sample Size: 10.4 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 7
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 78.4
% Lipid: 1.86

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	989	49.5	3.25	0.722
13C12-4-MoCB	3L			2000	1040	51.9	3.18	0.860
13C12-2,2'-DiCB	4L			2000	1150	57.6	1.59	0.875
13C12-4,4'-DiCB	15L			2000	1160	57.9	1.59	1.253
13C12-2,2',6-TriCB	19L			2000	1240	61.8	1.07	1.072
13C12-3,4,4'-TriCB	37L			2000	1210	60.3	1.04	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1420	71.1	0.81	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1360	67.9	0.79	1.396
13C12-3,4,4',5-TeCB	81L			2000	1370	68.4	0.80	1.372
13C12-2,2',4,6,6'-PeCB	104L			2000	1270	63.4	1.62	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1320	66.0	1.55	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1150	57.3	1.56	1.179
13C12-2,3',4,4',5-PeCB	118L			2000	1430	71.5	1.54	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1190	59.7	1.56	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1250	62.4	1.57	1.301
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1230	61.3	1.28	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2820	70.4	1.27	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1410	70.7	1.27	1.077
13C12-3,3',4,4',5,5'-HxCB	169L		X					
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1510	75.6	1.06	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1640	82.0	1.05	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1460	72.8	1.04	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1450	72.4	1.04	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1550	77.3	0.91	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1630	81.3	0.94	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2630	132	0.83	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1710	85.4	0.81	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1380	69.1	1.19	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1410	70.7	1.05	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1540	76.9	1.59	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1440	71.8	1.07	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener; X = result reported separately.
- (3) R% = percent recovery of labeled compounds.

Approved by: Brian Watson QA/QC Chemist



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River -10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 26-Nov-2009 Time: 01:46:08
Extract Volume (uL): 100
Injection Volume (uL): 1.0
Dilution Factor: 5
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-10 W
Sample Size: 10.4 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_359 S: 6
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_359 S: 1
% Moisture: 78.4
% Lipid: 1.86

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L		X					
13C12-4-MoCB	3L		X					
13C12-2,2'-DiCB	4L		X					
13C12-4,4'-DiCB	15L		X					
13C12-2,2',6-TriCB	19L		X					
13C12-3,4,4'-TriCB	37L		X					
13C12-2,2',6,6'-TeCB	54L		X					
13C12-3,3',4,4'-TeCB	77L		X					
13C12-3,4,4',5-TeCB	81L		X					
13C12-2,2',4,6,6'-PeCB	104L		D	2000	1590	79.6	1.62	0.809
13C12-2,3,3',4,4'-PeCB	105L		D	2000	1260	63.1	1.47	1.201
13C12-2,3,4,4',5-PeCB	114L		D	2000	1140	57.0	1.55	1.180
13C12-2,3',4,4',5-PeCB	118L		D	2000	1320	66.1	1.56	1.162
13C12-2',3,4,4',5-PeCB	123L		D	2000	1300	64.8	1.59	1.152
13C12-3,3',4,4',5-PeCB	126L		D	2000	1200	60.1	1.56	1.302
13C12-2,2',4,4',6,6'-HxCB	155L		D	2000	1690	84.7	1.26	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C D	4000	2720	68.1	1.26	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L		D	2000	1410	70.6	1.34	1.078
13C12-3,3',4,4',5,5'-HxCB	169L		D	2000	1350	67.5	1.24	1.192
13C12-2,2',3,3',4,4',5-HpCB	170L		D	2000	1620	81.1	1.03	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L		D	2000	1670	83.3	1.06	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L		D	2000	1940	97.2	1.06	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L		D	2000	1320	65.8	1.15	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L		D	2000	2370	118	0.84	0.817
13C12-2,3,3',4,4',5,5',6-OxCB	205L		D	2000	1530	76.6	0.90	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L		X					
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L		X					
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L		X					
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L		X					
13C12-2,3,3',5,5'-PeCB	111L		X					
13C12-2,2',3,3',5,5',6-HpCB	178L		X					

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; D = dilution data; C = co-eluting congener; X = result reported separately.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 Time: 03:39:45

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-12

Sample Size: 10.1 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 8

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 79.6
% Lipid: 1.27

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.426	0.0497	3.25	1.000
3-MoCB	2			0.282	0.0497	3.28	0.988
4-MoCB	3		B	0.349	0.0497	3.58	1.000
2,2'-DiCB	4			2.85	0.259	1.60	1.001
2,3-DiCB	5		U		0.188		
2,3'-DiCB	6			1.85	0.165	1.41	1.173
2,4-DiCB	7			0.367	0.170	1.48	1.155
2,4'-DiCB	8		B	6.89	0.152	1.49	1.205
2,5-DiCB	9			0.521	0.166	1.60	1.143
2,6-DiCB	10		U		0.157		
3,3'-DiCB	11		B	5.09	0.190	1.56	0.968
3,4-DiCB	12	12 + 13	C U		0.190		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.182		
4,4'-DiCB	15			1.22	0.201	1.70	1.000
2,2',3-TriCB	16		B	10.2	0.0891	1.08	1.166
2,2',4-TriCB	17		B	15.8	0.0764	1.01	1.137
2,2',5-TriCB	18	18 + 30	C B	45.5	0.0638	1.06	1.113
2,2',6-TriCB	19			3.73	0.0803	1.08	1.002
2,3,3'-TriCB	20	20 + 28	C B	271	0.220	1.01	0.848
2,3,4-TriCB	21	21 + 33	C B	42.0	0.198	0.99	0.857
2,3,4'-TriCB	22		B	50.1	0.239	0.99	0.872
2,3,5-TriCB	23		U		0.213		
2,3,6-TriCB	24		K	0.740	0.0553	0.87	1.158
2,3',4-TriCB	25			17.5	0.177	0.98	0.825
2,3',5-TriCB	26	26 + 29	C	38.3	0.210	1.01	1.299
2,3',6-TriCB	27			5.86	0.0532	1.05	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	151	0.198	1.01	0.837
2,4',6-TriCB	32		B	24.3	0.192	1.00	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	0.618	0.214	0.74	1.272
3,3',4-TriCB	35		U		0.274		
3,3',5-TriCB	36		U		0.227		
3,4,4'-TriCB	37		B	12.6	0.250	0.99	1.001
3,4,5-TriCB	38			1.20	0.225	1.07	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			2.34	0.229	0.92	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	209	0.109	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			165	0.110	0.79	1.310
2,2',3,5'-TeCB	43			17.5	0.118	0.76	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	794	0.0970	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	47.5	0.101	0.78	1.146
2,2',3,6'-TeCB	46			8.63	0.114	0.81	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	52.2	0.108	0.77	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	570	0.0910	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	51.4	0.0977	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	1130	0.101	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			0.186	0.0688	0.84	1.002
2,3,3',4'-TeCB	55		U		0.963		
2,3,3',4'-TeCB	56		B	252	0.976	0.77	0.904
2,3,3',5'-TeCB	57			6.56	0.883	0.71	0.843
2,3,3',5'-TeCB	58			5.49	0.893	0.72	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	70.2	0.0806	0.81	1.299
2,3,4,4'-TeCB	60		B	207	1.00	0.76	0.910
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	1580	0.879	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			63.9	0.890	0.77	0.864
2,3,4',6'-TeCB	64		B	261	0.0784	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	1070	0.898	0.76	0.884
2,3',4,5'-TeCB	67			22.2	0.779	0.73	0.855
2,3',4,5'-TeCB	68			27.5	0.857	0.77	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			32.6	0.846	0.74	0.822
2,3',5',6'-TeCB	73		U		0.0813		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			76.0	0.910	0.77	1.000
3,3',4,5'-TeCB	78		U		1.01		
3,3',4,5'-TeCB	79			40.2	0.804	0.74	0.969
3,3',5,5'-TeCB	80		U		0.883		
3,4,4',5'-TeCB	81			2.50	0.979	0.70	1.000
2,2',3,3',4'-PeCB	82			204	1.70	1.58	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	3700	1.59	1.58	0.885
2,2',3,3',6'-PeCB	84		B	384	1.68	1.58	1.163
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	720	1.32	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	2000	1.33	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	379	1.48	1.58	1.154
2,2',3,4,6'-PeCB	89			8.22	1.58	1.69	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	4060	1.32	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	805	1.58	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	2020	1.42	1.58	1.120
2,2',3,5,6'-PeCB	94			8.79	1.58	1.55	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			2.92	0.175	1.52	1.016
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			44.6	1.32	1.53	1.093
2,2',4,6,6'-PeCB	104			0.399	0.189	1.50	1.001
2,3,3',4,4'-PeCB	105		B	1370	3.21	1.52	1.000
2,3,3',4,5-PeCB	106		U		3.24		
2,3,3',4',5-PeCB	107	107 + 124	C	112	3.47	1.54	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			450	3.58	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	3100	1.17	1.57	0.925
2,3,3',5,5'-PeCB	111			10.7	1.16	1.74	0.945
2,3,3',5,6-PeCB	112		U		1.12		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			71.5	3.73	1.48	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	4340	3.01	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			48.5	1.08	1.60	0.958
2,3',4,5',6-PeCB	121			3.38	1.17	1.53	1.197
2',3,3',4,5-PeCB	122			16.7	3.80	1.59	1.010
2',3,4,4',5-PeCB	123			58.6	3.72	1.51	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			14.2	4.51	1.62	1.000
3,3',4,5,5'-PeCB	127			9.13	3.67	1.45	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	1230	3.94	1.27	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	8620	3.83	1.26	0.929
2,2',3,3',4,5'-HxCB	130			429	4.88	1.26	0.913
2,2',3,3',4,6-HxCB	131			40.3	4.47	1.22	1.161
2,2',3,3',4,6'-HxCB	132		B	1040	4.71	1.26	1.176
2,2',3,3',5,5'-HxCB	133			164	4.33	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	229	4.48	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1770	0.118	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	380	0.0897	1.26	1.026
2,2',3,4,4',5-HxCB	137			236	4.78	1.27	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	105	4.10	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			495	4.23	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		4.64		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			169	0.119	1.28	1.122
2,2',3,4,6,6'-HxCB	145		K	0.811	0.0944	0.80	1.035
2,2',3,4',5,5'-HxCB	146		B	1760	3.94	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	3790	3.91	1.26	1.134
2,2',3,4',5,6'-HxCB	148			22.6	0.124	1.29	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			10.6	0.0906	1.33	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.656	0.0843	1.26	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	9610	3.33	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			14.7	0.0802	1.17	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	591	4.44	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			467	3.01	1.26	0.938
2,3,3',4,5,5'-HxCB	159			28.2	3.27	1.23	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		3.26		
2,3,3',4',5,5'-HxCB	162			33.0	3.28	1.26	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			225	3.23	1.27	0.922
2,3,3',5,5',6-HxCB	165			11.1	3.57	1.42	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			284	2.71	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		4.94		
2,2',3,3',4,4',5-HpCB	170		B	725	0.186	1.04	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	327	0.202	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			183	0.204	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			544	0.176	1.06	1.134
2,2',3,3',4,5',6-HpCB	175			60.0	0.185	1.04	1.102
2,2',3,3',4,6,6'-HpCB	176			106	0.137	1.07	1.035
2,2',3,3',4',5,6-HpCB	177		B	879	0.182	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			459	0.190	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			394	0.132	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	2390	0.151	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			9.40	0.196	1.09	1.156
2,2',3,4,4',5,6'-HpCB	182			12.5	0.182	1.02	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	920	0.186	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			11.2	0.136	1.04	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.153		
2,2',3,4',5,5',6-HpCB	187		B	3360	0.178	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			14.8	0.126	0.96	1.001
2,3,3',4,4',5,5'-HpCB	189			31.1	0.331	1.06	1.001
2,3,3',4,4',5,6-HpCB	190			151	0.151	1.06	0.948
2,3,3',4,4',5',6-HpCB	191			32.0	0.134	1.05	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.172		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202			332	0.107	0.90	1.001
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		T	282	0.229	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	41.9	0.156	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			155	0.121	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	168	0.110	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; X = result reported separately; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-12_Form1A_PB9C_330S8_SJ1077655.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 Time: 03:39:45

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-12

Sample Size: 2.05 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 8

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 79.6
% Lipid: 1.27

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	2.08	0.243	3.25	1.000
3-MoCB	2			1.38	0.243	3.28	0.988
4-MoCB	3		B	1.71	0.243	3.58	1.000
2,2'-DiCB	4			14.0	1.27	1.60	1.001
2,3-DiCB	5		U		0.924		
2,3'-DiCB	6			9.05	0.805	1.41	1.173
2,4-DiCB	7			1.80	0.830	1.48	1.155
2,4'-DiCB	8		B	33.8	0.743	1.49	1.205
2,5-DiCB	9			2.55	0.811	1.60	1.143
2,6-DiCB	10		U		0.768		
3,3'-DiCB	11		B	24.9	0.930	1.56	0.968
3,4-DiCB	12	12 + 13	C U		0.930		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.893		
4,4'-DiCB	15			5.97	0.986	1.70	1.000
2,2',3-TriCB	16		B	49.9	0.436	1.08	1.166
2,2',4-TriCB	17		B	77.4	0.374	1.01	1.137
2,2',5-TriCB	18	18 + 30	C B	223	0.313	1.06	1.113
2,2',6-TriCB	19			18.3	0.393	1.08	1.002
2,3,3'-TriCB	20	20 + 28	C B	1330	1.08	1.01	0.848
2,3,4-TriCB	21	21 + 33	C B	206	0.967	0.99	0.857
2,3,4'-TriCB	22		B	245	1.17	0.99	0.872
2,3,5-TriCB	23		U		1.04		
2,3,6-TriCB	24		K	3.63	0.271	0.87	1.158
2,3',4-TriCB	25			85.5	0.868	0.98	0.825
2,3',5-TriCB	26	26 + 29	C	188	1.03	1.01	1.299
2,3',6-TriCB	27			28.7	0.260	1.05	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	736	0.967	1.01	0.837
2,4',6-TriCB	32		B	119	0.942	1.00	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	3.03	1.05	0.74	1.272
3,3',4-TriCB	35		U		1.34		
3,3',5-TriCB	36		U		1.11		
3,4,4'-TriCB	37		B	61.7	1.22	0.99	1.001
3,4,5-TriCB	38			5.88	1.10	1.07	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			11.5	1.12	0.92	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	1020	0.534	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			805	0.539	0.79	1.310
2,2',3,5'-TeCB	43			85.5	0.578	0.76	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	3890	0.475	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	233	0.495	0.78	1.146
2,2',3,6'-TeCB	46			42.3	0.559	0.81	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	256	0.529	0.77	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	2790	0.446	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	252	0.479	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	5540	0.495	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			0.911	0.337	0.84	1.002
2,3,3',4'-TeCB	55		U		4.72		
2,3,3',4'-TeCB	56		B	1240	4.78	0.77	0.904
2,3,3',5'-TeCB	57			32.1	4.33	0.71	0.843
2,3,3',5'-TeCB	58			26.9	4.38	0.72	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	344	0.394	0.81	1.299
2,3,4,4'-TeCB	60		B	1010	4.90	0.76	0.910
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	7740	4.31	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			313	4.36	0.77	0.864
2,3,4',6'-TeCB	64		B	1280	0.384	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	5240	4.40	0.76	0.884
2,3',4,5'-TeCB	67			109	3.81	0.73	0.855
2,3',4,5'-TeCB	68			135	4.19	0.77	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			160	4.14	0.74	0.822
2,3',5',6'-TeCB	73		U		0.398		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			372	4.46	0.77	1.000
3,3',4,5'-TeCB	78		U		4.95		
3,3',4,5'-TeCB	79			197	3.94	0.74	0.969
3,3',5,5'-TeCB	80		U		4.33		
3,4,4',5'-TeCB	81			12.2	4.79	0.70	1.000
2,2',3,3',4'-PeCB	82			999	8.30	1.58	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	18100	7.80	1.58	0.885
2,2',3,3',6'-PeCB	84		B	1880	8.24	1.58	1.163
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	3530	6.49	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	9800	6.49	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	1850	7.24	1.58	1.154
2,2',3,4,6'-PeCB	89			40.3	7.74	1.69	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	19900	6.49	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	3940	7.74	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	9920	6.93	1.58	1.120
2,2',3,5,6'-PeCB	94			43.1	7.74	1.55	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			14.3	0.855	1.52	1.016
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			218	6.49	1.53	1.093
2,2',4,6,6'-PeCB	104			1.95	0.924	1.50	1.001
2,3,3',4,4'-PeCB	105		B	6740	15.7	1.52	1.000
2,3,3',4,5-PeCB	106		U		15.9		
2,3,3',4',5-PeCB	107	107 + 124	C	549	17.0	1.54	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			2200	17.5	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	15200	5.73	1.57	0.925
2,3,3',5,5'-PeCB	111			52.4	5.68	1.74	0.945
2,3,3',5,6-PeCB	112		U		5.49		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			350	18.3	1.48	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	21300	14.7	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			238	5.29	1.60	0.958
2,3',4,5',6-PeCB	121			16.5	5.73	1.53	1.197
2',3,3',4,5-PeCB	122			81.8	18.6	1.59	1.010
2',3,4,4',5-PeCB	123			287	18.2	1.51	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			69.3	22.1	1.62	1.000
3,3',4,5,5'-PeCB	127			44.7	18.0	1.45	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	6020	19.3	1.27	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	42200	18.8	1.26	0.929
2,2',3,3',4,5'-HxCB	130			2100	23.9	1.26	0.913
2,2',3,3',4,6-HxCB	131			197	21.9	1.22	1.161
2,2',3,3',4,6'-HxCB	132		B	5090	23.1	1.26	1.176
2,2',3,3',5,5'-HxCB	133			805	21.2	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	1120	22.0	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	8680	0.578	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	1860	0.439	1.26	1.026
2,2',3,4,4',5-HxCB	137			1150	23.4	1.27	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	514	20.1	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			2420	20.7	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		22.7		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			830	0.583	1.28	1.122
2,2',3,4,6,6'-HxCB	145		K	3.97	0.462	0.80	1.035
2,2',3,4',5,5'-HxCB	146		B	8610	19.3	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	18500	19.2	1.26	1.134
2,2',3,4',5,6'-HxCB	148			110	0.607	1.29	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			51.9	0.444	1.33	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			3.21	0.413	1.26	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	47100	16.3	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			71.8	0.393	1.17	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	2900	21.7	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			2280	14.7	1.26	0.938
2,3,3',4,5,5'-HxCB	159			138	16.0	1.23	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		16.0		
2,3,3',4',5,5'-HxCB	162			162	16.0	1.26	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			1100	15.8	1.27	0.922
2,3,3',5,5',6-HxCB	165			54.4	17.5	1.42	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			1390	13.3	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		24.2		
2,2',3,3',4,4',5-HpCB	170		B	3550	0.911	1.04	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	1600	0.992	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			899	0.999	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			2670	0.861	1.06	1.134
2,2',3,3',4,5',6-HpCB	175			294	0.905	1.04	1.102
2,2',3,3',4,6,6'-HpCB	176			519	0.674	1.07	1.035
2,2',3,3',4',5,6-HpCB	177		B	4310	0.893	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			2250	0.930	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			1930	0.649	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	11700	0.736	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			46.1	0.961	1.09	1.156
2,2',3,4,4',5,6'-HpCB	182			61.2	0.893	1.02	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	4510	0.911	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			54.9	0.668	1.04	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.749		
2,2',3,4',5,5',6-HpCB	187		B	16500	0.874	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			72.4	0.617	0.96	1.001
2,3,3',4,4',5,5'-HpCB	189			152	1.62	1.06	1.001
2,3,3',4,4',5,6-HpCB	190			736	0.736	1.06	0.948
2,3,3',4,4',5',6-HpCB	191			157	0.655	1.05	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.843		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202			1630	0.524	0.90	1.001
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		T	1380	1.12	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	205	0.761	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			761	0.593	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	824	0.539	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; X = result reported separately; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-12_Form1A_PB9C_330S8_SJ1077655_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-12
Sample Size: 0.128 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 8
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 79.6
% Lipid: 1.27

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 30-Oct-2009 Time: 03:39:45
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (lipid weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	33.4	3.90	3.25	1.000
3-MoCB	2			22.1	3.90	3.28	0.988
4-MoCB	3		B	27.4	3.90	3.58	1.000
2,2'-DiCB	4			224	20.3	1.60	1.001
2,3-DiCB	5		U		14.8		
2,3'-DiCB	6			145	12.9	1.41	1.173
2,4-DiCB	7			28.8	13.3	1.48	1.155
2,4'-DiCB	8		B	541	11.9	1.49	1.205
2,5-DiCB	9			40.9	13.0	1.60	1.143
2,6-DiCB	10		U		12.3		
3,3'-DiCB	11		B	399	14.9	1.56	0.968
3,4-DiCB	12	12 + 13	C U		14.9		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		14.3		
4,4'-DiCB	15			95.7	15.8	1.70	1.000
2,2',3-TriCB	16		B	800	6.99	1.08	1.166
2,2',4-TriCB	17		B	1240	6.00	1.01	1.137
2,2',5-TriCB	18	18 + 30	C B	3570	5.01	1.06	1.113
2,2',6-TriCB	19			293	6.30	1.08	1.002
2,3,3'-TriCB	20	20 + 28	C B	21300	17.3	1.01	0.848
2,3,4-TriCB	21	21 + 33	C B	3300	15.5	0.99	0.857
2,3,4'-TriCB	22		B	3930	18.8	0.99	0.872
2,3,5-TriCB	23		U		16.7		
2,3,6-TriCB	24		K	58.1	4.34	0.87	1.158
2,3',4-TriCB	25			1370	13.9	0.98	0.825
2,3',5-TriCB	26	26 + 29	C	3010	16.5	1.01	1.299
2,3',6-TriCB	27			460	4.17	1.05	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	11800	15.5	1.01	0.837
2,4',6-TriCB	32		B	1910	15.1	1.00	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	48.5	16.8	0.74	1.272
3,3',4-TriCB	35		U		21.5		
3,3',5-TriCB	36		U		17.8		
3,4,4'-TriCB	37		B	989	19.6	0.99	1.001
3,4,5-TriCB	38			94.2	17.7	1.07	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			184	18.0	0.92	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	16400	8.55	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			12900	8.63	0.79	1.310
2,2',3,5'-TeCB	43			1370	9.26	0.76	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	62300	7.61	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	3730	7.93	0.78	1.146
2,2',3,6'-TeCB	46			677	8.95	0.81	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	4100	8.47	0.77	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	44700	7.14	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	4030	7.67	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	88700	7.93	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			14.6	5.40	0.84	1.002
2,3,3',4'-TeCB	55		U		75.6		
2,3,3',4'-TeCB	56		B	19800	76.6	0.77	0.904
2,3,3',5'-TeCB	57			515	69.3	0.71	0.843
2,3,3',5'-TeCB	58			431	70.1	0.72	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	5510	6.32	0.81	1.299
2,3,4,4'-TeCB	60		B	16200	78.5	0.76	0.910
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	124000	69.0	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			5010	69.8	0.77	0.864
2,3,4',6'-TeCB	64		B	20500	6.15	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	84000	70.5	0.76	0.884
2,3',4,5'-TeCB	67			1740	61.1	0.73	0.855
2,3',4,5'-TeCB	68			2160	67.2	0.77	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			2560	66.4	0.74	0.822
2,3',5',6'-TeCB	73		U		6.38		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			5960	71.4	0.77	1.000
3,3',4,5'-TeCB	78		U		79.3		
3,3',4,5'-TeCB	79			3150	63.1	0.74	0.969
3,3',5,5'-TeCB	80		U		69.3		
3,4,4',5'-TeCB	81			196	76.8	0.70	1.000
2,2',3,3',4'-PeCB	82			16000	133	1.58	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	290000	125	1.58	0.885
2,2',3,3',6'-PeCB	84		B	30100	132	1.58	1.163
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	56500	104	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	157000	104	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	29700	116	1.58	1.154
2,2',3,4,6'-PeCB	89			645	124	1.69	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	319000	104	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	63200	124	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	159000	111	1.58	1.120
2,2',3,5,6'-PeCB	94			690	124	1.55	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			229	13.7	1.52	1.016
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			3500	104	1.53	1.093
2,2',4,6,6'-PeCB	104			31.3	14.8	1.50	1.001
2,3,3',4,4'-PeCB	105		B	108000	252	1.52	1.000
2,3,3',4,5-PeCB	106		U		254		
2,3,3',4',5-PeCB	107	107 + 124	C	8790	272	1.54	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			35300	281	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	243000	91.8	1.57	0.925
2,3,3',5,5'-PeCB	111			840	91.0	1.74	0.945
2,3,3',5,6-PeCB	112		U		87.9		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			5610	293	1.48	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	341000	236	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			3810	84.7	1.60	0.958
2,3',4,5',6-PeCB	121			265	91.8	1.53	1.197
2',3,3',4,5-PeCB	122			1310	298	1.59	1.010
2',3,4,4',5-PeCB	123			4600	292	1.51	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			1110	354	1.62	1.000
3,3',4,5,5'-PeCB	127			716	288	1.45	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	96500	309	1.27	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	676000	301	1.26	0.929
2,2',3,3',4,5'-HxCB	130			33700	383	1.26	0.913
2,2',3,3',4,6-HxCB	131			3160	351	1.22	1.161
2,2',3,3',4,6'-HxCB	132		B	81600	370	1.26	1.176
2,2',3,3',5,5'-HxCB	133			12900	340	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	18000	352	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	139000	9.26	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	29800	7.04	1.26	1.026
2,2',3,4,4',5-HxCB	137			18500	375	1.27	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	8240	322	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			38800	332	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		364		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			13300	9.34	1.28	1.122
2,2',3,4,6,6'-HxCB	145		K	63.6	7.41	0.80	1.035
2,2',3,4',5,5'-HxCB	146		B	138000	309	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	297000	307	1.26	1.134
2,2',3,4',5,6'-HxCB	148			1770	9.73	1.29	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			832	7.11	1.33	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			51.5	6.62	1.26	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	754000	261	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			1150	6.29	1.17	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	46400	348	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			36600	236	1.26	0.938
2,3,3',4,5,5'-HxCB	159			2210	257	1.23	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		256		
2,3,3',4',5,5'-HxCB	162			2590	257	1.26	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			17700	253	1.27	0.922
2,3,3',5,5',6-HxCB	165			871	280	1.42	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			22300	213	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		388		
2,2',3,3',4,4',5-HpCB	170		B	56900	14.6	1.04	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	25700	15.9	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			14400	16.0	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			42700	13.8	1.06	1.134
2,2',3,3',4,5',6-HpCB	175			4710	14.5	1.04	1.102
2,2',3,3',4,6,6'-HpCB	176			8320	10.8	1.07	1.035
2,2',3,3',4',5,6-HpCB	177		B	69000	14.3	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			36000	14.9	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			30900	10.4	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	188000	11.8	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			738	15.4	1.09	1.156
2,2',3,4,4',5,6'-HpCB	182			981	14.3	1.02	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	72200	14.6	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			879	10.7	1.04	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		12.0		
2,2',3,4',5,5',6-HpCB	187		B	264000	14.0	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			1160	9.89	0.96	1.001
2,3,3',4,4',5,5'-HpCB	189			2440	26.0	1.06	1.001
2,3,3',4,4',5,6-HpCB	190			11800	11.8	1.06	0.948
2,3,3',4,4',5',6-HpCB	191			2510	10.5	1.05	0.918
2,3,3',4,5,5',6-HpCB	192		U		13.5		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202			26100	8.40	0.90	1.001
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		T	22100	18.0	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	3290	12.2	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			12200	9.50	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	13200	8.63	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; X = result reported separately; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-12_Form1A_PB9C_330S8_SJ1077655_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 25-Nov-2009 Time: 12:40:26

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-12 W

Sample Size: 10.1 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_358 S: 5

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_358 S: 1

% Moisture: 79.6
% Lipid: 1.27

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		X				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C X				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		D	313	1.18	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195		D	94.9	1.27	0.92	0.946
2,2',3,3',4,4',5,6'-OxCB	196		D	204	1.09	0.89	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C D	62.5	0.798	0.94	1.046
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C D	583	1.11	0.88	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		D	104	0.781	0.91	1.023
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		D	313	1.09	0.87	0.919
2,2',3,4,4',5,6,6'-OxCB	204		U D		0.795		
2,3,3',4,4',5,5',6-OxCB	205		D	15.8	1.06	0.95	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; U = not detected; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-12_Form1A_PB9C_358S5_SJ1084301.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 25-Nov-2009 Time: 12:40:26

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-12 W

Sample Size: 2.05 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_358 S: 5

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_358 S: 1

% Moisture: 79.6
% Lipid: 1.27

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		X				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C X				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		D	1540	5.78	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195		D	465	6.22	0.92	0.946
2,2',3,3',4,4',5,6'-OxCB	196		D	999	5.34	0.89	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C D	306	3.91	0.94	1.046
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C D	2850	5.44	0.88	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		D	509	3.83	0.91	1.023
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		D	1540	5.34	0.87	0.919
2,2',3,4,4',5,6,6'-OxCB	204		U D		3.89		
2,3,3',4,4',5,5',6-OxCB	205		D	77.4	5.19	0.95	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; U = not detected; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 25-Nov-2009 Time: 12:40:26

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-12 W
Sample Size: 0.128 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 5
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 79.6
% Lipid: 1.27

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		X				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C X				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5,5'-HxCB	159		X				
2,3,3',4,4',5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,4',5,6'-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		D	24600	92.6	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195		D	7450	99.7	0.92	0.946
2,2',3,3',4,4',5,6'-OxCB	196		D	16000	85.5	0.89	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C D	4900	62.6	0.94	1.046
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C D	45700	87.1	0.88	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		D	8160	61.3	0.91	1.023
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		D	24600	85.5	0.87	0.919
2,2',3,4,4',5,6,6'-OxCB	204		U D		62.4		
2,3,3',4,4',5,5',6-OxCB	205		D	1240	83.2	0.95	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; U = not detected; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 30-Oct-2009 Time: 03:39:45
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-12
Sample Size: 10.1 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 8
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 79.6
% Lipid: 1.27

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	937	46.8	3.27	0.722
13C12-4-MoCB	3L			2000	1000	50.2	3.26	0.860
13C12-2,2'-DiCB	4L			2000	1060	53.2	1.58	0.876
13C12-4,4'-DiCB	15L			2000	1100	54.8	1.59	1.253
13C12-2,2',6-TriCB	19L			2000	1130	56.6	1.06	1.072
13C12-3,4,4'-TriCB	37L			2000	1210	60.5	1.04	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1380	69.1	0.80	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1340	67.0	0.80	1.396
13C12-3,4,4',5-TeCB	81L			2000	1300	65.0	0.80	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1250	62.6	1.63	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1280	63.9	1.56	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1090	54.6	1.57	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1350	67.3	1.55	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1170	58.3	1.57	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1120	55.9	1.56	1.301
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1240	62.1	1.28	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2650	66.3	1.28	1.107
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1530	76.4	1.30	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1300	65.0	1.29	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1440	71.9	1.04	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1740	86.8	1.07	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1640	81.8	1.11	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1430	71.5	1.04	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1780	88.9	0.92	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1480	74.2	0.95	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2680	134	0.86	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1760	88.1	0.82	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1580	79.0	1.18	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1370	68.7	1.04	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1520	76.0	1.60	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1350	67.7	1.07	1.011

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: Brian Watson QA/QC Chemist



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 25-Nov-2009 Time: 12:40:26
Extract Volume (uL): 100
Injection Volume (uL): 1.0
Dilution Factor: 5
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-12 W
Sample Size: 10.1 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 5
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 79.6
% Lipid: 1.27

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L		X					
13C12-4-MoCB	3L		X					
13C12-2,2'-DiCB	4L		X					
13C12-4,4'-DiCB	15L		X					
13C12-2,2',6-TriCB	19L		X					
13C12-3,4,4'-TriCB	37L		X					
13C12-2,2',6,6'-TeCB	54L		X					
13C12-3,3',4,4'-TeCB	77L		X					
13C12-3,4,4',5-TeCB	81L		X					
13C12-2,2',4,6,6'-PeCB	104L		X					
13C12-2,3,3',4,4'-PeCB	105L		X					
13C12-2,3,4,4',5-PeCB	114L		X					
13C12-2,3',4,4',5-PeCB	118L		X					
13C12-2',3,4,4',5-PeCB	123L		X					
13C12-3,3',4,4',5-PeCB	126L		X					
13C12-2,2',4,4',6,6'-HxCB	155L		X					
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C X					
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L		X					
13C12-3,3',4,4',5,5'-HxCB	169L		X					
13C12-2,2',3,3',4,4',5-HpCB	170L		X					
13C12-2,2',3,4,4',5,5'-HpCB	180L		X					
13C12-2,2',3,4',5,6,6'-HpCB	188L		X					
13C12-2,3,3',4,4',5,5'-HpCB	189L		X					
13C12-2,2',3,3',5,5',6,6'-OxCB	202L		D	2000	1860	93.0	0.87	0.817
13C12-2,3,3',4,4',5,5',6-OxCB	205L		D	2000	1590	79.5	0.91	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L		X					
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L		X					
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L		X					
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L		X					
13C12-2,3,3',5,5'-PeCB	111L		X					
13C12-2,2',3,3',5,5',6-HpCB	178L		X					

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; D = dilution data; C = co-eluting congener; X = result reported separately.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 Time: 04:44:06

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-14

Sample Size: 10.6 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 9

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 77.9
% Lipid: 2.15

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.832	0.0474	3.05	1.001
3-MoCB	2			0.546	0.0474	2.93	0.988
4-MoCB	3		K B	0.330	0.0474	4.18	1.001
2,2'-DiCB	4			17.1	0.188	1.51	1.000
2,3-DiCB	5		K	0.328	0.133	4.64	1.196
2,3'-DiCB	6			31.0	0.116	1.51	1.174
2,4-DiCB	7			1.29	0.120	1.62	1.155
2,4'-DiCB	8		B	37.3	0.107	1.53	1.205
2,5-DiCB	9			2.31	0.117	1.64	1.143
2,6-DiCB	10			0.782	0.111	1.56	1.012
3,3'-DiCB	11		B	28.1	0.134	1.56	0.969
3,4-DiCB	12	12 + 13	C K	1.21	0.134	2.15	0.985
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.128		
4,4'-DiCB	15			2.09	0.139	1.70	1.000
2,2',3-TriCB	16		B	18.2	0.0559	1.09	1.165
2,2',4-TriCB	17		B	67.9	0.0480	1.05	1.136
2,2',5-TriCB	18	18 + 30	C B	165	0.0474	1.07	1.112
2,2',6-TriCB	19			14.7	0.0507	1.03	1.001
2,3,3'-TriCB	20	20 + 28	C B	1370	0.142	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	80.0	0.129	1.05	0.857
2,3,4'-TriCB	22		B	183	0.155	1.02	0.872
2,3,5-TriCB	23		U		0.138		
2,3,6-TriCB	24			1.77	0.0474	1.06	1.157
2,3',4-TriCB	25			212	0.115	1.01	0.824
2,3',5-TriCB	26	26 + 29	C	481	0.136	1.01	1.299
2,3',6-TriCB	27			41.9	0.0474	1.08	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	659	0.128	1.01	0.837
2,4',6-TriCB	32		B	86.9	0.125	1.01	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			2.71	0.139	1.00	1.271
3,3',4-TriCB	35		U		0.178		
3,3',5-TriCB	36		U		0.147		
3,4,4'-TriCB	37		B	26.3	0.161	1.00	1.001
3,4,5-TriCB	38			5.16	0.146	1.01	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			4.67	0.148	0.97	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	529	0.0535	0.79	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			841	0.0540	0.79	1.309
2,2',3,5'-TeCB	43			36.6	0.0578	0.79	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	4030	0.0476	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	131	0.0495	0.79	1.146
2,2',3,6'-TeCB	46			23.2	0.0562	0.76	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	105	0.0532	0.79	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	3140	0.0474	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	203	0.0480	0.78	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	4970	0.0497	0.78	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			1.11	0.0474	0.75	1.001
2,3,3',4'-TeCB	55		U		1.51		
2,3,3',4'-TeCB	56		B	993	1.53	0.77	0.905
2,3,3',5'-TeCB	57			34.3	1.38	0.73	0.843
2,3,3',5'-TeCB	58			21.0	1.40	0.73	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	326	0.0474	0.80	1.300
2,3,4,4'-TeCB	60		B	956	1.56	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C E				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			292	1.39	0.75	0.864
2,3,4',6'-TeCB	64		B	762	0.0474	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		E				
2,3',4,5'-TeCB	67			96.8	1.22	0.74	0.855
2,3',4,5'-TeCB	68			127	1.34	0.77	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			158	1.32	0.76	0.821
2,3',5',6'-TeCB	73		U		0.0474		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			172	1.47	0.77	1.000
3,3',4,5'-TeCB	78		U		1.58		
3,3',4,5'-TeCB	79			183	1.26	0.73	0.969
3,3',5,5'-TeCB	80		U		1.38		
3,4,4',5'-TeCB	81			8.77	1.48	0.81	1.000
2,2',3,3',4'-PeCB	82			918	0.467	1.58	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C E				
2,2',3,3',6'-PeCB	84		B	1100	0.462	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	3270	0.363	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C E				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	1270	0.407	1.57	1.154
2,2',3,4,6'-PeCB	89			13.2	0.435	1.67	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	3090	0.433	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C E				
2,2',3,5,6'-PeCB	94			23.1	0.435	1.61	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			6.51	0.0791	1.58	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			148	0.364	1.59	1.093
2,2',4,6,6'-PeCB	104			2.33	0.0906	1.68	1.001
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		12.0		
2,3,3',4',5-PeCB	107	107 + 124	C	440	12.8	1.51	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			1920	13.2	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			23.9	0.319	1.54	0.945
2,3,3',5,6-PeCB	112		U		0.307		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			298	14.1	1.54	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			149	0.297	1.58	0.958
2,3',4,5',6-PeCB	121			6.60	0.322	1.63	1.198
2',3,3',4,5-PeCB	122			80.7	14.1	1.52	1.010
2',3,4,4',5-PeCB	123			246	13.9	1.54	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			53.3	16.2	1.57	1.000
3,3',4,5,5'-PeCB	127			28.5	13.6	1.66	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	5290	8.23	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			1810	10.2	1.26	0.913
2,2',3,3',4,6-HxCB	131			197	9.33	1.26	1.161
2,2',3,3',4,6'-HxCB	132		B	3870	9.82	1.26	1.177
2,2',3,3',5,5'-HxCB	133			495	9.03	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	920	9.35	1.26	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	6580	0.104	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	1140	0.0789	1.26	1.026
2,2',3,4,4',5-HxCB	137			991	9.96	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	428	8.56	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			2040	8.82	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		9.67		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			619	0.104	1.26	1.123
2,2',3,4,6,6'-HxCB	145			2.48	0.0830	1.25	1.036
2,2',3,4',5,5'-HxCB	146		B	6370	8.22	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C E				
2,2',3,4',5,6'-HxCB	148			60.2	0.109	1.24	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			23.7	0.0797	1.34	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			2.09	0.0741	1.15	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			11.9	0.101	1.21	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	2540	7.97	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			2220	6.27	1.27	0.938
2,3,3',4,5,5'-HxCB	159			83.2	6.82	1.25	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		6.81		
2,3,3',4',5,5'-HxCB	162			92.2	6.85	1.28	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			807	6.74	1.27	0.921
2,3,3',5,5',6-HxCB	165			31.4	7.45	1.25	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			1210	6.35	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		12.8		
2,2',3,3',4,4',5-HpCB	170		B	3540	0.310	1.05	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	1370	0.337	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			579	0.339	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			1860	0.293	1.05	1.133
2,2',3,3',4,5',6-HpCB	175			210	0.309	1.04	1.102
2,2',3,3',4,6',6-HpCB	176			386	0.228	1.05	1.035
2,2',3,3',4',5,6-HpCB	177		B	3430	0.302	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			1540	0.315	1.05	1.085
2,2',3,3',5,6',6-HpCB	179			1440	0.220	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			32.3	0.327	1.00	1.156
2,2',3,4,4',5,6'-HpCB	182			31.2	0.302	1.09	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	3740	0.310	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			9.02	0.227	1.04	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6',6-HpCB	186		U		0.254		
2,2',3,4',5,5',6-HpCB	187		E				
2,2',3,4',5,6',6-HpCB	188			28.2	0.250	1.03	1.000
2,3,3',4,4',5,5'-HpCB	189			133	0.372	1.00	1.001
2,3,3',4,4',5,6-HpCB	190			707	0.251	1.05	0.947
2,3,3',4,4',5',6-HpCB	191			130	0.224	1.04	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.286		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1240	0.246	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			433	0.270	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			783	0.176	0.91	0.915
2,2',3,3',4,4',6-OxCB	197	197 + 200	C	167	0.132	0.90	1.046
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	2040	0.182	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			292	0.131	0.93	1.023
2,2',3,3',5,5',6,6'-OxCB	202			822	0.154	0.92	1.000
2,2',3,4,4',5,5',6-OxCB	203			964	0.174	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	1.01	0.134	1.21	1.038
2,3,3',4,4',5,5',6-OxCB	205			46.7	0.216	0.89	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	564	0.183	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	81.1	0.131	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			286	0.111	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	236	0.0859	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-14_Form1A_PB9C_330S9_SJ1077657.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 Time: 04:44:06

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-14

Sample Size: 2.33 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 9

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 77.9
% Lipid: 2.15

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	3.76	0.215	3.05	1.001
3-MoCB	2			2.47	0.215	2.93	0.988
4-MoCB	3		K B	1.50	0.215	4.18	1.001
2,2'-DiCB	4			77.3	0.850	1.51	1.000
2,3-DiCB	5		K	1.49	0.601	4.64	1.196
2,3'-DiCB	6			140	0.524	1.51	1.174
2,4-DiCB	7			5.83	0.542	1.62	1.155
2,4'-DiCB	8		B	169	0.484	1.53	1.205
2,5-DiCB	9			10.5	0.528	1.64	1.143
2,6-DiCB	10			3.54	0.502	1.56	1.012
3,3'-DiCB	11		B	127	0.606	1.56	0.969
3,4-DiCB	12	12 + 13	C K	5.47	0.606	2.15	0.985
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.579		
4,4'-DiCB	15			9.45	0.628	1.70	1.000
2,2',3-TriCB	16		B	82.3	0.253	1.09	1.165
2,2',4-TriCB	17		B	307	0.217	1.05	1.136
2,2',5-TriCB	18	18 + 30	C B	746	0.215	1.07	1.112
2,2',6-TriCB	19			66.4	0.229	1.03	1.001
2,3,3'-TriCB	20	20 + 28	C B	6200	0.642	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	361	0.583	1.05	0.857
2,3,4'-TriCB	22		B	828	0.700	1.02	0.872
2,3,5-TriCB	23		U		0.624		
2,3,6-TriCB	24			8.00	0.215	1.06	1.157
2,3',4-TriCB	25			959	0.520	1.01	0.824
2,3',5-TriCB	26	26 + 29	C	2180	0.615	1.01	1.299
2,3',6-TriCB	27			189	0.215	1.08	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	2980	0.579	1.01	0.837
2,4',6-TriCB	32		B	392	0.565	1.01	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			12.2	0.628	1.00	1.271
3,3',4-TriCB	35		U		0.804		
3,3',5-TriCB	36		U		0.664		
3,4,4'-TriCB	37		B	118	0.727	1.00	1.001
3,4,5-TriCB	38			23.3	0.660	1.01	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			21.1	0.669	0.97	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	2390	0.242	0.79	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			3800	0.244	0.79	1.309
2,2',3,5'-TeCB	43			165	0.261	0.79	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	18300	0.216	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	592	0.223	0.79	1.146
2,2',3,6'-TeCB	46			105	0.254	0.76	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	475	0.241	0.79	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	14200	0.215	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	918	0.217	0.78	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	22400	0.224	0.78	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			5.02	0.215	0.75	1.001
2,3,3',4'-TeCB	55		U		6.83		
2,3,3',4'-TeCB	56		B	4490	6.92	0.77	0.905
2,3,3',5'-TeCB	57			155	6.24	0.73	0.843
2,3,3',5'-TeCB	58			94.9	6.33	0.73	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	1480	0.215	0.80	1.300
2,3,4,4'-TeCB	60		B	4320	7.05	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C E				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			1320	6.28	0.75	0.864
2,3,4',6'-TeCB	64		B	3450	0.215	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		E				
2,3',4,5'-TeCB	67			437	5.52	0.74	0.855
2,3',4,5'-TeCB	68			574	6.06	0.77	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			714	5.96	0.76	0.821
2,3',5',6'-TeCB	73		U		0.215		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			777	6.64	0.77	1.000
3,3',4,5'-TeCB	78		U		7.14		
3,3',4,5'-TeCB	79			828	5.69	0.73	0.969
3,3',5,5'-TeCB	80		U		6.24		
3,4,4',5'-TeCB	81			39.6	6.69	0.81	1.000
2,2',3,3',4'-PeCB	82			4150	2.11	1.58	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C E				
2,2',3,3',6'-PeCB	84		B	4970	2.09	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	14800	1.64	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C E				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	5740	1.84	1.57	1.154
2,2',3,4,6'-PeCB	89			59.6	1.96	1.67	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	14000	1.96	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C E				
2,2',3,5,6'-PeCB	94			105	1.96	1.61	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			29.4	0.357	1.58	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			669	1.64	1.59	1.093
2,2',4,6,6'-PeCB	104			10.5	0.410	1.68	1.001
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		54.2		
2,3,3',4',5-PeCB	107	107 + 124	C	1990	57.9	1.51	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			8680	59.6	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			108	1.44	1.54	0.945
2,3,3',5,6-PeCB	112		U		1.39		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			1350	63.7	1.54	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			673	1.34	1.58	0.958
2,3',4,5',6-PeCB	121			29.8	1.46	1.63	1.198
2',3,3',4,5-PeCB	122			365	63.7	1.52	1.010
2',3,4,4',5-PeCB	123			1110	62.8	1.54	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			241	73.2	1.57	1.000
3,3',4,5,5'-PeCB	127			129	61.5	1.66	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	23900	37.2	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			8180	46.1	1.26	0.913
2,2',3,3',4,6-HxCB	131			891	42.2	1.26	1.161
2,2',3,3',4,6'-HxCB	132		B	17500	44.4	1.26	1.177
2,2',3,3',5,5'-HxCB	133			2230	40.8	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	4160	42.3	1.26	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	29700	0.470	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	5160	0.356	1.26	1.026
2,2',3,4,4',5-HxCB	137			4480	45.1	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	1930	38.7	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			9220	39.8	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		43.7		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			2800	0.470	1.26	1.123
2,2',3,4,6,6'-HxCB	145			11.2	0.375	1.25	1.036
2,2',3,4',5,5'-HxCB	146		B	28800	37.2	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C E				
2,2',3,4',5,6'-HxCB	148			272	0.492	1.24	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			107	0.360	1.34	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			9.45	0.335	1.15	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			53.8	0.457	1.21	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	11500	36.0	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			10000	28.4	1.27	0.938
2,3,3',4,5,5'-HxCB	159			376	30.8	1.25	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		30.8		
2,3,3',4',5,5'-HxCB	162			417	31.0	1.28	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			3650	30.5	1.27	0.921
2,3,3',5,5',6-HxCB	165			142	33.7	1.25	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			5470	28.8	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		57.9		
2,2',3,3',4,4',5-HpCB	170		B	16000	1.40	1.05	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	6200	1.52	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			2610	1.53	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			8410	1.32	1.05	1.133
2,2',3,3',4,5',6-HpCB	175			949	1.40	1.04	1.102
2,2',3,3',4,6,6'-HpCB	176			1750	1.03	1.05	1.035
2,2',3,3',4',5,6-HpCB	177		B	15500	1.37	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			6960	1.43	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			6510	0.991	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			146	1.48	1.00	1.156
2,2',3,4,4',5,6'-HpCB	182			141	1.37	1.09	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	16900	1.40	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			40.8	1.03	1.04	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		1.15		
2,2',3,4',5,5',6-HpCB	187		E				
2,2',3,4',5,6,6'-HpCB	188			127	1.13	1.03	1.000
2,3,3',4,4',5,5'-HpCB	189			601	1.68	1.00	1.001
2,3,3',4,4',5,6-HpCB	190			3200	1.14	1.05	0.947
2,3,3',4,4',5',6-HpCB	191			588	1.01	1.04	0.917
2,3,3',4,5,5',6-HpCB	192		U		1.29		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			5600	1.11	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			1960	1.22	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			3540	0.795	0.91	0.915
2,2',3,3',4,4',6-OxCB	197	197 + 200	C	755	0.596	0.90	1.046
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	9220	0.823	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			1320	0.592	0.93	1.023
2,2',3,3',5,5',6,6'-OxCB	202			3720	0.696	0.92	1.000
2,2',3,4,4',5,5',6-OxCB	203			4360	0.787	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	4.57	0.606	1.21	1.038
2,3,3',4,4',5,5',6-OxCB	205			211	0.981	0.89	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	2540	0.828	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	366	0.592	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			1290	0.502	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	1070	0.389	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-14
Sample Size: 0.227 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 9
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 77.9
% Lipid: 2.15

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 30-Oct-2009 Time: 04:44:06
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (lipid weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	38.7	2.21	3.05	1.001
3-MoCB	2			25.4	2.21	2.93	0.988
4-MoCB	3		K B	15.4	2.21	4.18	1.001
2,2'-DiCB	4			796	8.75	1.51	1.000
2,3-DiCB	5		K	15.3	6.19	4.64	1.196
2,3'-DiCB	6			1440	5.40	1.51	1.174
2,4-DiCB	7			60.0	5.58	1.62	1.155
2,4'-DiCB	8		B	1740	4.98	1.53	1.205
2,5-DiCB	9			108	5.44	1.64	1.143
2,6-DiCB	10			36.4	5.17	1.56	1.012
3,3'-DiCB	11		B	1310	6.24	1.56	0.969
3,4-DiCB	12	12 + 13	C K	56.3	6.24	2.15	0.985
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		5.96		
4,4'-DiCB	15			97.3	6.47	1.70	1.000
2,2',3-TriCB	16		B	847	2.60	1.09	1.165
2,2',4-TriCB	17		B	3160	2.23	1.05	1.136
2,2',5-TriCB	18	18 + 30	C B	7680	2.21	1.07	1.112
2,2',6-TriCB	19			684	2.36	1.03	1.001
2,3,3'-TriCB	20	20 + 28	C B	63800	6.61	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	3720	6.00	1.05	0.857
2,3,4'-TriCB	22		B	8520	7.21	1.02	0.872
2,3,5-TriCB	23		U		6.42		
2,3,6-TriCB	24			82.4	2.21	1.06	1.157
2,3',4-TriCB	25			9870	5.35	1.01	0.824
2,3',5-TriCB	26	26 + 29	C	22400	6.33	1.01	1.299
2,3',6-TriCB	27			1950	2.21	1.08	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	30700	5.96	1.01	0.837
2,4',6-TriCB	32		B	4040	5.82	1.01	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			126	6.47	1.00	1.271
3,3',4-TriCB	35		U		8.28		
3,3',5-TriCB	36		U		6.84		
3,4,4'-TriCB	37		B	1220	7.49	1.00	1.001
3,4,5-TriCB	38			240	6.79	1.01	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			217	6.89	0.97	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	24600	2.49	0.79	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			39100	2.51	0.79	1.309
2,2',3,5'-TeCB	43			1700	2.69	0.79	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	188000	2.22	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	6100	2.30	0.79	1.146
2,2',3,6'-TeCB	46			1080	2.62	0.76	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	4890	2.48	0.79	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	146000	2.21	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	9450	2.23	0.78	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	231000	2.31	0.78	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			51.7	2.21	0.75	1.001
2,3,3',4'-TeCB	55		U		70.3		
2,3,3',4'-TeCB	56		B	46200	71.2	0.77	0.905
2,3,3',5'-TeCB	57			1600	64.2	0.73	0.843
2,3,3',5'-TeCB	58			977	65.2	0.73	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	15200	2.21	0.80	1.300
2,3,4,4'-TeCB	60		B	44500	72.6	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C E				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			13600	64.7	0.75	0.864
2,3,4',6'-TeCB	64		B	35500	2.21	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		E				
2,3',4,5'-TeCB	67			4500	56.8	0.74	0.855
2,3',4,5'-TeCB	68			5910	62.4	0.77	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			7350	61.4	0.76	0.821
2,3',5',6'-TeCB	73		U		2.21		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			8000	68.4	0.77	1.000
3,3',4,5'-TeCB	78		U		73.5		
3,3',4,5'-TeCB	79			8520	58.6	0.73	0.969
3,3',5,5'-TeCB	80		U		64.2		
3,4,4',5'-TeCB	81			408	68.9	0.81	1.000
2,2',3,3',4'-PeCB	82			42700	21.7	1.58	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C E				
2,2',3,3',6'-PeCB	84		B	51200	21.5	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	152000	16.9	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C E				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	59100	18.9	1.57	1.154
2,2',3,4,6'-PeCB	89			614	20.2	1.67	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	144000	20.2	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C E				
2,2',3,5,6'-PeCB	94			1080	20.2	1.61	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			303	3.68	1.58	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			6890	16.9	1.59	1.093
2,2',4,6,6'-PeCB	104			108	4.22	1.68	1.001
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		558		
2,3,3',4',5-PeCB	107	107 + 124	C	20500	596	1.51	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			89400	614	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			1110	14.8	1.54	0.945
2,3,3',5,6-PeCB	112		U		14.3		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			13900	656	1.54	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			6930	13.8	1.58	0.958
2,3',4,5',6-PeCB	121			307	15.0	1.63	1.198
2',3,3',4,5-PeCB	122			3760	656	1.52	1.010
2',3,4,4',5-PeCB	123			11400	647	1.54	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			2480	754	1.57	1.000
3,3',4,5,5'-PeCB	127			1330	633	1.66	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	246000	383	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			84200	475	1.26	0.913
2,2',3,3',4,6-HxCB	131			9170	434	1.26	1.161
2,2',3,3',4,6'-HxCB	132		B	180000	457	1.26	1.177
2,2',3,3',5,5'-HxCB	133			23000	420	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	42800	435	1.26	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	306000	4.84	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	53100	3.67	1.26	1.026
2,2',3,4,4',5-HxCB	137			46100	464	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	19900	398	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			94900	410	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		450		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			28800	4.84	1.26	1.123
2,2',3,4,6,6'-HxCB	145			115	3.86	1.25	1.036
2,2',3,4',5,5'-HxCB	146		B	296000	383	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C E				
2,2',3,4',5,6'-HxCB	148			2800	5.07	1.24	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			1100	3.71	1.34	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			97.3	3.45	1.15	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			554	4.70	1.21	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	118000	371	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			103000	292	1.27	0.938
2,3,3',4,5,5'-HxCB	159			3870	317	1.25	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		317		
2,3,3',4',5,5'-HxCB	162			4290	319	1.28	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			37600	314	1.27	0.921
2,3,3',5,5',6-HxCB	165			1460	347	1.25	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			56300	296	1.26	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		596		
2,2',3,3',4,4',5-HpCB	170		B	165000	14.4	1.05	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	63800	15.7	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			26900	15.8	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			86600	13.6	1.05	1.133
2,2',3,3',4,5',6-HpCB	175			9770	14.4	1.04	1.102
2,2',3,3',4,6,6'-HpCB	176			18000	10.6	1.05	1.035
2,2',3,3',4',5,6-HpCB	177		B	160000	14.1	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			71700	14.7	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			67000	10.2	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			1500	15.2	1.00	1.156
2,2',3,4,4',5,6'-HpCB	182			1450	14.1	1.09	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	174000	14.4	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			420	10.6	1.04	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		11.8		
2,2',3,4',5,5',6-HpCB	187		E				
2,2',3,4',5,6,6'-HpCB	188			1310	11.6	1.03	1.000
2,3,3',4,4',5,5'-HpCB	189			6190	17.3	1.00	1.001
2,3,3',4,4',5,6-HpCB	190			32900	11.7	1.05	0.947
2,3,3',4,4',5',6-HpCB	191			6050	10.4	1.04	0.917
2,3,3',4,5,5',6-HpCB	192		U		13.3		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			57700	11.4	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			20200	12.6	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			36400	8.19	0.91	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	7770	6.14	0.90	1.046
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	94900	8.47	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			13600	6.10	0.93	1.023
2,2',3,3',5,5',6,6'-OxCB	202			38300	7.17	0.92	1.000
2,2',3,4,4',5,5',6-OxCB	203			44900	8.10	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	47.0	6.24	1.21	1.038
2,3,3',4,4',5,5',6-OxCB	205			2170	10.1	0.89	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	26200	8.52	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	3770	6.10	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			13300	5.17	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	11000	4.00	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-14 W
Sample Size: 10.6 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_359 S: 10
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_359 S: 1
% Moisture: 77.9
% Lipid: 2.15

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 26-Nov-2009 Time: 06:03:42
Extract Volume (uL): 200
Injection Volume (uL): 1.0
Dilution Factor: 10
Concentration Units: pg/g (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B D	5870	13.3	0.77	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B D	5280	13.1	0.77	0.884
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	14100	9.98	1.56	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B D	8220	8.64	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	13700	8.75	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B D	6670	9.53	1.58	1.122
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	6380	46.9	1.55	1.001
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	9220	7.64	1.56	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	20800	44.7	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	35000	48.9	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C B D	12300	51.3	1.26	1.135
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	31700	42.1	1.25	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	8690	1.01	1.03	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	9910	1.09	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		X				
2,2',3,3',4,4',5,6'-OcCB	195		X				
2,2',3,3',4,4',5,6'-OcCB	196		X				
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OcCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201		X				
2,2',3,3',5,5',6,6'-OcCB	202		X				
2,2',3,4,4',5,5',6'-OcCB	203		X				
2,2',3,4,4',5,6,6'-OcCB	204		X				
2,3,3',4,4',5,5',6'-OcCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-14_Form1A_PB9C_359S10_SJ1084474.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 26-Nov-2009 Time: 06:03:42

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 10

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-14 W

Sample Size: 2.33 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_359 S: 10

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_359 S: 1

% Moisture: 77.9
% Lipid: 2.15

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B D	26500	60.1	0.77	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B D	23900	59.2	0.77	0.884
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	63700	45.1	1.56	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B D	37200	39.0	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	62000	39.5	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B D	30100	43.1	1.58	1.122
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	28800	212	1.55	1.001
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	41700	34.6	1.56	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	94000	202	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	158000	221	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C B D	55600	232	1.26	1.135
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	144000	190	1.25	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	39200	4.57	1.03	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	44800	4.92	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6'-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6'-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6'-OxCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-14_Form1A_PB9C_359S10_SJ1084474_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 26-Nov-2009 Time: 06:03:42

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 10

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-14 W
Sample Size: 0.227 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_359 S: 10
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_359 S: 1
% Moisture: 77.9
% Lipid: 2.15

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B D	273000	619	0.77	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B D	246000	610	0.77	0.884
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	656000	464	1.56	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B D	383000	402	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	638000	407	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B D	310000	444	1.58	1.122
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	297000	2180	1.55	1.001
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	429000	356	1.56	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	968000	2080	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	1630000	2280	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C B D	572000	2390	1.26	1.135
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	1480000	1960	1.25	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	404000	47.0	1.03	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	461000	50.7	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6'-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6'-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6'-OxCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-14_Form1A_PB9C_359S10_SJ1084474_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 30-Oct-2009 Time: 04:44:06
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-14
Sample Size: 10.6 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 9
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 77.9
% Lipid: 2.15

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	831	41.6	3.23	0.722
13C12-4-MoCB	3L			2000	984	49.2	3.21	0.860
13C12-2,2'-DiCB	4L			2000	1060	52.9	1.57	0.876
13C12-4,4'-DiCB	15L			2000	1120	56.2	1.56	1.253
13C12-2,2',6-TriCB	19L			2000	1200	59.8	1.06	1.073
13C12-3,4,4'-TriCB	37L			2000	1140	56.9	1.04	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1310	65.5	0.81	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1230	61.4	0.81	1.396
13C12-3,4,4',5-TeCB	81L			2000	1280	63.9	0.79	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1210	60.3	1.58	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1420	71.1	1.57	1.200
13C12-2,3,4,4',5-PeCB	114L			2000	1070	53.4	1.58	1.179
13C12-2,3',4,4',5-PeCB	118L			2000	1390	69.3	1.57	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1140	56.9	1.57	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1120	56.2	1.56	1.301
13C12-2,2',4,4',6,6'-HxCB	155L			2000	862	43.1	1.28	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2930	73.3	1.29	1.107
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1320	65.8	1.33	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1580	79.0	1.29	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1650	82.4	1.04	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1810	90.6	1.06	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1240	62.0	1.09	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1540	77.0	1.05	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1550	77.3	0.90	0.817
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1420	71.2	0.96	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2310	116	0.86	1.043
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1660	82.9	0.82	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1420	70.8	1.17	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1320	65.9	1.04	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1130	56.7	1.60	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1410	70.4	1.07	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: Brian Watson QA/QC Chemist



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 26-Nov-2009 Time: 06:03:42
Extract Volume (uL): 200
Injection Volume (uL): 1.0
Dilution Factor: 10
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-14 W
Sample Size: 10.6 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_359 S: 10
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_359 S: 1
% Moisture: 77.9
% Lipid: 2.15

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L		X					
13C12-4-MoCB	3L		X					
13C12-2,2'-DiCB	4L		X					
13C12-4,4'-DiCB	15L		X					
13C12-2,2',6-TriCB	19L		X					
13C12-3,4,4'-TriCB	37L		X					
13C12-2,2',6,6'-TeCB	54L		D	2000	1180	59.0	0.76	0.812
13C12-3,3',4,4'-TeCB	77L		D	2000	1160	58.2	0.79	1.397
13C12-3,4,4',5-TeCB	81L		D	2000	1160	57.8	0.84	1.373
13C12-2,2',4,6,6'-PeCB	104L		D	2000	1310	65.4	1.55	0.808
13C12-2,3,3',4,4'-PeCB	105L		D	2000	1050	52.4	1.54	1.201
13C12-2,3,4,4',5-PeCB	114L		D	2000	963	48.2	1.54	1.179
13C12-2,3',4,4',5-PeCB	118L		D	2000	1070	53.6	1.63	1.161
13C12-2',3,4,4',5-PeCB	123L		D	2000	1010	50.7	1.50	1.151
13C12-3,3',4,4',5-PeCB	126L		D	2000	975	48.7	1.59	1.302
13C12-2,2',4,4',6,6'-HxCB	155L		D	2000	1020	51.2	1.25	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C D	4000	2250	56.2	1.26	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L		D	2000	1150	57.3	1.35	1.078
13C12-3,3',4,4',5,5'-HxCB	169L		D	2000	1130	56.4	1.38	1.192
13C12-2,2',3,3',4,4',5-HpCB	170L		D	2000	1480	74.0	1.11	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L		D	2000	1380	69.1	0.98	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L		D	2000	1390	69.7	1.13	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L		D	2000	1070	53.7	1.04	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L		X					
13C12-2,3,3',4,4',5,5',6-OxCB	205L		X					
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L		X					
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L		X					
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L		X					
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L		X					
13C12-2,3,3',5,5'-PeCB	111L		X					
13C12-2,2',3,3',5,5',6-HpCB	178L		X					

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; D = dilution data; C = co-eluting congener; X = result reported separately.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-15
Sample Size: 10.8 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 10
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 79.3
% Lipid: 1.52

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 30-Oct-2009 Time: 05:48:28
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.527	0.0462	3.04	1.001
3-MoCB	2			0.282	0.0482	2.91	0.988
4-MoCB	3		K B	0.250	0.0515	3.83	1.000
2,2'-DiCB	4			3.81	0.202	1.59	1.001
2,3-DiCB	5		U		0.148		
2,3'-DiCB	6			3.40	0.130	1.64	1.174
2,4-DiCB	7		K	0.310	0.134	2.01	1.156
2,4'-DiCB	8		B	8.52	0.120	1.59	1.206
2,5-DiCB	9			0.562	0.131	1.65	1.144
2,6-DiCB	10		K	0.272	0.124	2.06	1.013
3,3'-DiCB	11		B	13.7	0.150	1.55	0.970
3,4-DiCB	12	12 + 13	C K	0.722	0.150	3.98	0.985
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.143		
4,4'-DiCB	15			1.10	0.160	1.55	1.000
2,2',3-TriCB	16		B	8.66	0.0712	1.04	1.166
2,2',4-TriCB	17		B	18.0	0.0610	1.04	1.136
2,2',5-TriCB	18	18 + 30	C B	83.3	0.0510	1.07	1.112
2,2',6-TriCB	19			4.68	0.0629	1.10	1.001
2,3,3'-TriCB	20	20 + 28	C B	874	0.0899	1.01	0.848
2,3,4-TriCB	21	21 + 33	C B	72.4	0.0812	1.01	0.857
2,3,4'-TriCB	22		B	146	0.0977	1.00	0.872
2,3,5-TriCB	23		U		0.0871		
2,3,6-TriCB	24			1.81	0.0462	0.96	1.158
2,3',4-TriCB	25			69.9	0.0724	1.01	0.824
2,3',5-TriCB	26	26 + 29	C	156	0.0861	1.01	1.299
2,3',6-TriCB	27			17.0	0.0462	1.07	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	302	0.0808	1.01	0.837
2,4',6-TriCB	32		B	48.8	0.0787	1.01	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			0.921	0.0875	1.05	1.272
3,3',4-TriCB	35		U		0.112		
3,3',5-TriCB	36		U		0.0929		
3,4,4'-TriCB	37		B	16.0	0.104	1.02	1.002
3,4,5-TriCB	38			4.78	0.0920	1.03	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	4.06	0.0936	0.84	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	479	0.0966	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			577	0.0975	0.79	1.310
2,2',3,5'-TeCB	43			34.3	0.104	0.78	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	2790	0.0860	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	117	0.0894	0.79	1.146
2,2',3,6'-TeCB	46			17.3	0.101	0.81	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	105	0.0959	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	1670	0.0806	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	162	0.0865	0.79	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	3790	0.0898	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			0.465	0.0590	0.79	1.001
2,3,3',4'-TeCB	55		U		1.73		
2,3,3',4'-TeCB	56		B	762	1.76	0.77	0.905
2,3,3',5'-TeCB	57			21.6	1.59	0.76	0.843
2,3,3',5'-TeCB	58			17.3	1.61	0.78	0.852
2,3,3',6'-TeCB	59	59 + 62 + 75	C	250	0.0714	0.79	1.300
2,3,4,4'-TeCB	60		B	685	1.80	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	3650	1.58	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			216	1.60	0.76	0.864
2,3,4',6'-TeCB	64		B	700	0.0694	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	3850	1.62	0.76	0.884
2,3',4,5'-TeCB	67			68.5	1.40	0.74	0.856
2,3',4,5'-TeCB	68			85.8	1.54	0.74	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			111	1.52	0.77	0.822
2,3',5',6'-TeCB	73		U		0.0721		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			163	1.72	0.76	1.001
3,3',4,5'-TeCB	78		U		1.82		
3,3',4,5'-TeCB	79			91.8	1.45	0.72	0.969
3,3',5,5'-TeCB	80		U		1.59		
3,4,4',5'-TeCB	81			7.17	1.73	0.78	1.001
2,2',3,3',4'-PeCB	82			593	1.38	1.58	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C E				
2,2',3,3',6'-PeCB	84		B	1050	1.36	1.59	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	2350	1.07	1.59	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C E				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	1120	1.20	1.58	1.154
2,2',3,4,6'-PeCB	89			14.6	1.28	1.59	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	2540	1.28	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C E				
2,2',3,5,6'-PeCB	94			18.8	1.28	1.54	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			4.72	0.123	1.51	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			107	1.08	1.58	1.093
2,2',4,6,6'-PeCB	104			1.32	0.146	1.70	1.001
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		9.53		
2,3,3',4',5-PeCB	107	107 + 124	C	303	10.2	1.52	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			1510	10.5	1.52	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			13.5	0.943	1.56	0.945
2,3,3',5,6-PeCB	112		U		0.907		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			170	12.0	1.56	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			91.7	0.876	1.61	0.958
2,3',4,5',6-PeCB	121			2.65	0.951	1.65	1.198
2',3,3',4,5-PeCB	122			62.3	11.2	1.55	1.011
2',3,4,4',5-PeCB	123			198	11.5	1.54	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			48.0	13.4	1.50	1.000
3,3',4,5,5'-PeCB	127			19.6	10.8	1.60	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	4430	5.58	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			1680	6.91	1.26	0.914
2,2',3,3',4,6-HxCB	131			165	6.33	1.25	1.161
2,2',3,3',4,6'-HxCB	132		B	3880	6.67	1.26	1.176
2,2',3,3',5,5'-HxCB	133			345	6.13	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	804	6.34	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	6240	0.138	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	1240	0.104	1.27	1.026
2,2',3,4,4',5-HxCB	137			733	6.76	1.40	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	345	5.81	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			1820	5.99	1.27	0.904
2,2',3,4,5,6-HxCB	142		U		6.56		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			592	0.138	1.26	1.122
2,2',3,4,6,6'-HxCB	145			2.69	0.110	1.34	1.035
2,2',3,4',5,5'-HxCB	146		B	5000	5.58	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	13000	5.54	1.26	1.135
2,2',3,4',5,6'-HxCB	148			35.5	0.145	1.27	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			25.0	0.106	1.25	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			1.77	0.0982	1.21	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			7.70	0.185	1.36	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	2120	4.80	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			2050	4.25	1.26	0.938
2,3,3',4,5,5'-HxCB	159			86.7	4.63	1.23	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		4.62		
2,3,3',4',5,5'-HxCB	162			83.7	4.65	1.30	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			736	4.57	1.19	0.922
2,3,3',5,5',6-HxCB	165			20.5	5.06	1.27	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			1050	4.25	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		11.6		
2,2',3,3',4,4',5-HpCB	170		B	3800	0.314	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	1530	0.342	1.06	1.163
2,2',3,3',4,5,5'-HpCB	172			553	0.344	1.06	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			2160	0.297	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			189	0.313	1.03	1.102
2,2',3,3',4,6,6'-HpCB	176			449	0.231	1.03	1.035
2,2',3,3',4',5,6-HpCB	177		B	3710	0.307	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			1420	0.320	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			1540	0.223	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			37.9	0.332	1.12	1.157
2,2',3,4,4',5,6'-HpCB	182			30.0	0.307	1.01	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	3520	0.315	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			5.92	0.230	1.06	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.258		
2,2',3,4',5,5',6-HpCB	187		E				
2,2',3,4',5,6,6'-HpCB	188			20.9	0.267	1.02	1.001
2,3,3',4,4',5,5'-HpCB	189			124	0.461	1.00	1.000
2,3,3',4,4',5,6-HpCB	190			685	0.255	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			125	0.227	1.03	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.290		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1140	0.188	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			324	0.205	0.89	0.946
2,2',3,3',4,4',5,6'-OxCB	196			541	0.147	0.91	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	132	0.109	0.90	1.046
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	1570	0.151	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			202	0.109	0.91	1.023
2,2',3,3',5,5',6,6'-OxCB	202			620	0.143	0.91	1.001
2,2',3,4,4',5,5',6-OxCB	203			662	0.145	0.91	0.920
2,2',3,4,4',5,6,6'-OxCB	204			0.514	0.111	0.83	1.038
2,3,3',4,4',5,5',6-OxCB	205			45.6	0.149	0.92	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	633	0.239	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	58.5	0.175	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			229	0.145	0.80	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	176	0.170	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-15_Form1A_PB9C_330S10_SJ1077659.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-15

Matrix: TISSUE

Sample Size: 2.24 g (dry)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 Time: 05:48:28

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_330 S: 10

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_330 S: 1

Concentration Units: pg/g (dry weight basis)

% Moisture: 79.3
% Lipid: 1.52

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	2.55	0.223	3.04	1.001
3-MoCB	2			1.37	0.233	2.91	0.988
4-MoCB	3		K B	1.20	0.249	3.83	1.000
2,2'-DiCB	4			18.4	0.977	1.59	1.001
2,3-DiCB	5		U		0.715		
2,3'-DiCB	6			16.5	0.628	1.64	1.174
2,4-DiCB	7		K	1.50	0.648	2.01	1.156
2,4'-DiCB	8		B	41.2	0.580	1.59	1.206
2,5-DiCB	9			2.72	0.633	1.65	1.144
2,6-DiCB	10		K	1.31	0.599	2.06	1.013
3,3'-DiCB	11		B	66.2	0.725	1.55	0.970
3,4-DiCB	12	12 + 13	C K	3.49	0.725	3.98	0.985
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.691		
4,4'-DiCB	15			5.32	0.771	1.55	1.000
2,2',3-TriCB	16		B	41.9	0.344	1.04	1.166
2,2',4-TriCB	17		B	86.7	0.295	1.04	1.136
2,2',5-TriCB	18	18 + 30	C B	403	0.247	1.07	1.112
2,2',6-TriCB	19			22.6	0.304	1.10	1.001
2,3,3'-TriCB	20	20 + 28	C B	4220	0.435	1.01	0.848
2,3,4-TriCB	21	21 + 33	C B	350	0.392	1.01	0.857
2,3,4'-TriCB	22		B	706	0.472	1.00	0.872
2,3,5-TriCB	23		U		0.421		
2,3,6-TriCB	24			8.74	0.223	0.96	1.158
2,3',4-TriCB	25			338	0.350	1.01	0.824
2,3',5-TriCB	26	26 + 29	C	757	0.416	1.01	1.299
2,3',6-TriCB	27			82.3	0.223	1.07	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	1460	0.391	1.01	0.837
2,4',6-TriCB	32		B	236	0.380	1.01	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			4.45	0.423	1.05	1.272
3,3',4-TriCB	35		U		0.541		
3,3',5-TriCB	36		U		0.449		
3,4,4'-TriCB	37		B	77.1	0.502	1.02	1.002
3,4,5-TriCB	38			23.1	0.444	1.03	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	19.6	0.452	0.84	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	2310	0.467	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			2790	0.472	0.79	1.310
2,2',3,5'-TeCB	43			166	0.502	0.78	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	13500	0.416	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	566	0.432	0.79	1.146
2,2',3,6'-TeCB	46			83.7	0.488	0.81	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	508	0.463	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	8080	0.389	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	786	0.418	0.79	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	18300	0.434	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			2.25	0.285	0.79	1.001
2,3,3',4'-TeCB	55		U		8.37		
2,3,3',4'-TeCB	56		B	3680	8.52	0.77	0.905
2,3,3',5'-TeCB	57			104	7.71	0.76	0.843
2,3,3',5'-TeCB	58			83.7	7.79	0.78	0.852
2,3,3',6'-TeCB	59	59 + 62 + 75	C	1200	0.345	0.79	1.300
2,3,4,4'-TeCB	60		B	3310	8.67	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	17600	7.64	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			1040	7.71	0.76	0.864
2,3,4',6'-TeCB	64		B	3390	0.336	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	18600	7.86	0.76	0.884
2,3',4,5'-TeCB	67			331	6.76	0.74	0.856
2,3',4,5'-TeCB	68			415	7.42	0.74	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			536	7.34	0.77	0.822
2,3',5',6'-TeCB	73		U		0.348		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			786	8.30	0.76	1.001
3,3',4,5'-TeCB	78		U		8.81		
3,3',4,5'-TeCB	79			444	7.01	0.72	0.969
3,3',5,5'-TeCB	80		U		7.71		
3,4,4',5'-TeCB	81			34.7	8.37	0.78	1.001
2,2',3,3',4'-PeCB	82			2860	6.67	1.58	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C E				
2,2',3,3',6'-PeCB	84		B	5080	6.57	1.59	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	11400	5.17	1.59	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C E				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	5410	5.80	1.58	1.154
2,2',3,4,6'-PeCB	89			70.6	6.18	1.59	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	12300	6.18	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C E				
2,2',3,5,6'-PeCB	94			91.1	6.18	1.54	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			22.8	0.594	1.51	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			517	5.22	1.58	1.093
2,2',4,6,6'-PeCB	104			6.38	0.706	1.70	1.001
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		46.1		
2,3,3',4',5-PeCB	107	107 + 124	C	1460	49.3	1.52	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			7300	50.8	1.52	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			65.2	4.55	1.56	0.945
2,3,3',5,6-PeCB	112		U		4.38		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			823	58.0	1.56	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			443	4.23	1.61	0.958
2,3',4,5',6-PeCB	121			12.8	4.60	1.65	1.198
2',3,3',4,5-PeCB	122			301	54.1	1.55	1.011
2',3,4,4',5-PeCB	123			955	55.6	1.54	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			232	64.8	1.50	1.000
3,3',4,5,5'-PeCB	127			94.7	52.2	1.60	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	21400	27.0	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			8150	33.4	1.26	0.914
2,2',3,3',4,6-HxCB	131			801	30.6	1.25	1.161
2,2',3,3',4,6'-HxCB	132		B	18700	32.2	1.26	1.176
2,2',3,3',5,5'-HxCB	133			1670	29.6	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	3890	30.6	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	30200	0.667	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	5990	0.502	1.27	1.026
2,2',3,4,4',5-HxCB	137			3540	32.7	1.40	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	1670	28.1	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			8810	28.9	1.27	0.904
2,2',3,4,5,6-HxCB	142		U		31.7		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			2860	0.667	1.26	1.122
2,2',3,4,6,6'-HxCB	145			13.0	0.532	1.34	1.035
2,2',3,4',5,5'-HxCB	146		B	24200	27.0	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	62800	26.8	1.26	1.135
2,2',3,4',5,6'-HxCB	148			172	0.701	1.27	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			120	0.512	1.25	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			8.52	0.474	1.21	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			37.2	0.896	1.36	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	10200	23.2	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			9920	20.6	1.26	0.938
2,3,3',4,5,5'-HxCB	159			419	22.4	1.23	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		22.3		
2,3,3',4',5,5'-HxCB	162			405	22.5	1.30	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			3550	22.1	1.19	0.922
2,3,3',5,5',6-HxCB	165			99.2	24.5	1.27	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			5080	20.6	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		56.0		
2,2',3,3',4,4',5-HpCB	170		B	18400	1.52	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	7420	1.65	1.06	1.163
2,2',3,3',4,5,5'-HpCB	172			2670	1.66	1.06	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			10400	1.43	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			911	1.51	1.03	1.102
2,2',3,3',4,6,6'-HpCB	176			2170	1.12	1.03	1.035
2,2',3,3',4',5,6-HpCB	177		B	17900	1.48	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			6860	1.55	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			7420	1.08	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			183	1.60	1.12	1.157
2,2',3,4,4',5,6'-HpCB	182			145	1.48	1.01	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	17000	1.52	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			28.6	1.11	1.06	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		1.25		
2,2',3,4',5,5',6-HpCB	187		E				
2,2',3,4',5,6,6'-HpCB	188			101	1.29	1.02	1.001
2,3,3',4,4',5,5'-HpCB	189			599	2.23	1.00	1.000
2,3,3',4,4',5,6-HpCB	190			3310	1.23	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			604	1.09	1.03	0.918
2,3,3',4,5,5',6-HpCB	192		U		1.40		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			5510	0.911	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			1560	0.992	0.89	0.946
2,2',3,3',4,4',5,6'-OxCB	196			2610	0.710	0.91	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	638	0.527	0.90	1.046
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	7570	0.730	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			977	0.527	0.91	1.023
2,2',3,3',5,5',6,6'-OxCB	202			3000	0.691	0.91	1.001
2,2',3,4,4',5,5',6-OxCB	203			3200	0.701	0.91	0.920
2,2',3,4,4',5,6,6'-OxCB	204			2.48	0.536	0.83	1.038
2,3,3',4,4',5,5',6-OxCB	205			220	0.720	0.92	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	3060	1.15	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	283	0.845	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			1110	0.701	0.80	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	852	0.823	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-15_Form1A_PB9C_330S10_SJ1077659_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 Time: 05:48:28

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-15

Sample Size: 0.165 g (lipid)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 10

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 79.3
% Lipid: 1.52

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	34.7	3.04	3.04	1.001
3-MoCB	2			18.6	3.17	2.91	0.988
4-MoCB	3		K B	16.4	3.39	3.83	1.000
2,2'-DiCB	4			251	13.3	1.59	1.001
2,3-DiCB	5		U		9.74		
2,3'-DiCB	6			224	8.55	1.64	1.174
2,4-DiCB	7		K	20.4	8.82	2.01	1.156
2,4'-DiCB	8		B	561	7.90	1.59	1.206
2,5-DiCB	9			37.0	8.62	1.65	1.144
2,6-DiCB	10		K	17.9	8.16	2.06	1.013
3,3'-DiCB	11		B	901	9.87	1.55	0.970
3,4-DiCB	12	12 + 13	C K	47.5	9.87	3.98	0.985
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		9.41		
4,4'-DiCB	15			72.4	10.5	1.55	1.000
2,2',3-TriCB	16		B	570	4.68	1.04	1.166
2,2',4-TriCB	17		B	1180	4.01	1.04	1.136
2,2',5-TriCB	18	18 + 30	C B	5480	3.36	1.07	1.112
2,2',6-TriCB	19			308	4.14	1.10	1.001
2,3,3'-TriCB	20	20 + 28	C B	57500	5.92	1.01	0.848
2,3,4-TriCB	21	21 + 33	C B	4760	5.34	1.01	0.857
2,3,4'-TriCB	22		B	9610	6.43	1.00	0.872
2,3,5-TriCB	23		U		5.73		
2,3,6-TriCB	24			119	3.04	0.96	1.158
2,3',4-TriCB	25			4600	4.76	1.01	0.824
2,3',5-TriCB	26	26 + 29	C	10300	5.67	1.01	1.299
2,3',6-TriCB	27			1120	3.04	1.07	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	19900	5.32	1.01	0.837
2,4',6-TriCB	32		B	3210	5.18	1.01	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			60.6	5.76	1.05	1.272
3,3',4-TriCB	35		U		7.37		
3,3',5-TriCB	36		U		6.11		
3,4,4'-TriCB	37		B	1050	6.84	1.02	1.002
3,4,5-TriCB	38			315	6.05	1.03	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	267	6.16	0.84	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	31500	6.36	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			38000	6.42	0.79	1.310
2,2',3,5'-TeCB	43			2260	6.84	0.78	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	184000	5.66	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	7700	5.88	0.79	1.146
2,2',3,6'-TeCB	46			1140	6.65	0.81	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	6910	6.31	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	110000	5.30	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	10700	5.69	0.79	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	249000	5.91	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			30.6	3.88	0.79	1.001
2,3,3',4'-TeCB	55		U		114		
2,3,3',4'-TeCB	56		B	50100	116	0.77	0.905
2,3,3',5'-TeCB	57			1420	105	0.76	0.843
2,3,3',5'-TeCB	58			1140	106	0.78	0.852
2,3,3',6'-TeCB	59	59 + 62 + 75	C	16400	4.70	0.79	1.300
2,3,4,4'-TeCB	60		B	45100	118	0.77	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	240000	104	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			14200	105	0.76	0.864
2,3,4',6'-TeCB	64		B	46100	4.57	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	253000	107	0.76	0.884
2,3',4,5'-TeCB	67			4510	92.1	0.74	0.856
2,3',4,5'-TeCB	68			5650	101	0.74	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			7300	100	0.77	0.822
2,3',5',6'-TeCB	73		U		4.74		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			10700	113	0.76	1.001
3,3',4,5'-TeCB	78		U		120		
3,3',4,5'-TeCB	79			6040	95.4	0.72	0.969
3,3',5,5'-TeCB	80		U		105		
3,4,4',5'-TeCB	81			472	114	0.78	1.001
2,2',3,3',4'-PeCB	82			39000	90.8	1.58	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C E				
2,2',3,3',6'-PeCB	84		B	69100	89.5	1.59	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	155000	70.4	1.59	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C E				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	73700	79.0	1.58	1.154
2,2',3,4,6'-PeCB	89			961	84.2	1.59	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	167000	84.2	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C E				
2,2',3,5,6'-PeCB	94			1240	84.2	1.54	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			311	8.09	1.51	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			7040	71.1	1.58	1.093
2,2',4,6,6'-PeCB	104			86.9	9.61	1.70	1.001
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		627		
2,3,3',4',5-PeCB	107	107 + 124	C	19900	671	1.52	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			99400	691	1.52	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			888	62.0	1.56	0.945
2,3,3',5,6-PeCB	112		U		59.7		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			11200	790	1.56	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			6030	57.6	1.61	0.958
2,3',4,5',6-PeCB	121			174	62.6	1.65	1.198
2',3,3',4,5-PeCB	122			4100	737	1.55	1.011
2',3,4,4',5-PeCB	123			13000	757	1.54	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			3160	882	1.50	1.000
3,3',4,5,5'-PeCB	127			1290	711	1.60	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	291000	367	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			111000	455	1.26	0.914
2,2',3,3',4,6-HxCB	131			10900	416	1.25	1.161
2,2',3,3',4,6'-HxCB	132		B	255000	439	1.26	1.176
2,2',3,3',5,5'-HxCB	133			22700	403	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	52900	417	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	411000	9.08	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	81600	6.84	1.27	1.026
2,2',3,4,4',5-HxCB	137			48200	445	1.40	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	22700	382	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			120000	394	1.27	0.904
2,2',3,4,5,6-HxCB	142		U		432		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			39000	9.08	1.26	1.122
2,2',3,4,6,6'-HxCB	145			177	7.24	1.34	1.035
2,2',3,4',5,5'-HxCB	146		B	329000	367	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	855000	365	1.26	1.135
2,2',3,4',5,6'-HxCB	148			2340	9.54	1.27	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			1640	6.97	1.25	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			116	6.46	1.21	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			507	12.2	1.36	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	139000	316	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			135000	280	1.26	0.938
2,3,3',4,5,5'-HxCB	159			5700	305	1.23	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		304		
2,3,3',4',5,5'-HxCB	162			5510	306	1.30	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			48400	301	1.19	0.922
2,3,3',5,5',6-HxCB	165			1350	333	1.27	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			69100	280	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		763		
2,2',3,3',4,4',5-HpCB	170		B	250000	20.7	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	101000	22.5	1.06	1.163
2,2',3,3',4,5,5'-HpCB	172			36400	22.6	1.06	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			142000	19.5	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			12400	20.6	1.03	1.102
2,2',3,3',4,6,6'-HpCB	176			29500	15.2	1.03	1.035
2,2',3,3',4',5,6-HpCB	177		B	244000	20.2	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			93400	21.1	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			101000	14.7	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			2490	21.8	1.12	1.157
2,2',3,4,4',5,6'-HpCB	182			1970	20.2	1.01	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	232000	20.7	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			390	15.1	1.06	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		17.0		
2,2',3,4',5,5',6-HpCB	187		E				
2,2',3,4',5,6,6'-HpCB	188			1380	17.6	1.02	1.001
2,3,3',4,4',5,5'-HpCB	189			8160	30.3	1.00	1.000
2,3,3',4,4',5,6-HpCB	190			45100	16.8	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			8220	14.9	1.03	0.918
2,3,3',4,5,5',6-HpCB	192		U		19.1		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			75000	12.4	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			21300	13.5	0.89	0.946
2,2',3,3',4,4',5,6'-OxCB	196			35600	9.67	0.91	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	8690	7.17	0.90	1.046
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	103000	9.94	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			13300	7.17	0.91	1.023
2,2',3,3',5,5',6,6'-OxCB	202			40800	9.41	0.91	1.001
2,2',3,4,4',5,5',6-OxCB	203			43600	9.54	0.91	0.920
2,2',3,4,4',5,6,6'-OxCB	204			33.8	7.30	0.83	1.038
2,3,3',4,4',5,5',6-OxCB	205			3000	9.80	0.92	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	41600	15.7	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	3850	11.5	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			15100	9.54	0.80	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	11600	11.2	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Brian Watson _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 26-Nov-2009 Time: 03:54:59

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 10

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-15 W

Sample Size: 10.8 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_359 S: 8

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_359 S: 1

% Moisture: 79.3
% Lipid: 1.52

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	5930	13.4	1.55	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B D	5340	11.6	1.56	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	10400	11.8	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B D	5750	12.8	1.56	1.121
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	4600	53.3	1.55	1.000
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	8360	10.3	1.56	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	13000	51.4	1.55	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	27100	48.7	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	22800	41.9	1.24	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	7990	1.46	1.04	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	8360	1.58	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6'-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6'-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6'-OxCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 26-Nov-2009 Time: 03:54:59

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 10

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-15 W

Sample Size: 2.24 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_359 S: 8

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_359 S: 1

% Moisture: 79.3
% Lipid: 1.52

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	28600	64.8	1.55	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B D	25800	56.0	1.56	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	50200	57.0	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B D	27800	61.8	1.56	1.121
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	22300	258	1.55	1.000
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	40400	49.8	1.56	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	62800	248	1.55	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	131000	235	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	110000	203	1.24	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	38600	7.06	1.04	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	40400	7.64	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6'-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6'-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6'-OxCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-15_Form1A_PB9C_359S8_SJ1084470_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 26-Nov-2009 Time: 03:54:59

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 10

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-15 W
Sample Size: 0.165 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_359 S: 8
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_359 S: 1
% Moisture: 79.3
% Lipid: 1.52

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		X				
2,3',5',6'-TeCB	73		X				
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	390000	882	1.55	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B D	351000	763	1.56	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	684000	776	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B D	378000	842	1.56	1.121
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	303000	3510	1.55	1.000
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	550000	678	1.56	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B D	855000	3380	1.55	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	1780000	3200	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	1500000	2760	1.24	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	526000	96.1	1.04	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	550000	104	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6'-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6'-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6'-OxCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-15_Form1A_PB9C_359S8_SJ1084470_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 30-Oct-2009 Time: 05:48:28
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-15
Sample Size: 10.8 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 10
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 79.3
% Lipid: 1.52

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	954	47.7	3.28	0.721
13C12-4-MoCB	3L			2000	1010	50.7	3.19	0.860
13C12-2,2'-DiCB	4L			2000	1080	54.2	1.58	0.875
13C12-4,4'-DiCB	15L			2000	1110	55.6	1.57	1.253
13C12-2,2',6-TriCB	19L			2000	1220	60.9	1.06	1.072
13C12-3,4,4'-TriCB	37L			2000	1120	56.2	1.04	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1310	65.7	0.80	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1190	59.7	0.80	1.396
13C12-3,4,4',5-TeCB	81L			2000	1270	63.3	0.81	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1150	57.7	1.60	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1370	68.5	1.54	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	977	48.9	1.57	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1430	71.7	1.54	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1080	53.9	1.56	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1070	53.4	1.56	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	524	26.2	1.28	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2730	68.4	1.27	1.107
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1140	56.8	1.31	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1230	61.6	1.25	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1630	81.3	1.07	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1700	85.0	1.09	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	898	44.9	1.07	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1220	61.0	1.06	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1210	60.6	0.91	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1490	74.4	0.95	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	1890	94.6	0.82	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1010	50.7	0.81	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	899	45.0	1.20	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1250	62.5	1.04	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	745	37.3	1.58	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1130	56.4	1.07	1.011

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Jones River- 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 26-Nov-2009 Time: 03:54:59
Extract Volume (uL): 200
Injection Volume (uL): 1.0
Dilution Factor: 10
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-15 W
Sample Size: 10.8 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_359 S: 8
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_359 S: 1
% Moisture: 79.3
% Lipid: 1.52

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L		X					
13C12-4-MoCB	3L		X					
13C12-2,2'-DiCB	4L		X					
13C12-4,4'-DiCB	15L		X					
13C12-2,2',6-TriCB	19L		X					
13C12-3,4,4'-TriCB	37L		X					
13C12-2,2',6,6'-TeCB	54L		X					
13C12-3,3',4,4'-TeCB	77L		X					
13C12-3,4,4',5-TeCB	81L		X					
13C12-2,2',4,6,6'-PeCB	104L		D	2000	1520	76.2	1.57	0.808
13C12-2,3,3',4,4'-PeCB	105L		D	2000	1350	67.4	1.58	1.201
13C12-2,3,4,4',5-PeCB	114L		D	2000	1230	61.7	1.63	1.179
13C12-2,3',4,4',5-PeCB	118L		D	2000	1370	68.3	1.60	1.161
13C12-2',3,4,4',5-PeCB	123L		D	2000	1280	64.2	1.56	1.151
13C12-3,3',4,4',5-PeCB	126L		D	2000	1230	61.3	1.60	1.302
13C12-2,2',4,4',6,6'-HxCB	155L		D	2000	799	39.9	1.19	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C D	4000	2870	71.8	1.22	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L		D	2000	1270	63.5	1.21	1.078
13C12-3,3',4,4',5,5'-HxCB	169L		D	2000	1370	68.4	1.32	1.192
13C12-2,2',3,3',4,4',5-HpCB	170L		D	2000	1800	89.9	1.10	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L		D	2000	1500	75.1	0.99	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L		D	2000	1290	64.7	1.01	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L		D	2000	1320	66.0	1.11	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L		X					
13C12-2,3,3',4,4',5,5',6-OxCB	205L		X					
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L		X					
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L		X					
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L		X					
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L		X					
13C12-2,3,3',5,5'-PeCB	111L		X					
13C12-2,2',3,3',5,5',6-HpCB	178L		X					

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; D = dilution data; C = co-eluting congener; X = result reported separately.
- (3) R% = percent recovery of labeled compounds.

Approved by: Brian Watson QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook - 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 Time: 06:52:52

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-17

Sample Size: 10.9 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 11

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 79.6
% Lipid: 1.50

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	0.214	0.0460	2.57	1.000
3-MoCB	2			0.204	0.0505	3.23	0.988
4-MoCB	3		B	0.315	0.0519	3.35	1.000
2,2'-DiCB	4			1.50	0.270	1.57	1.001
2,3-DiCB	5		U		0.215		
2,3'-DiCB	6			0.830	0.189	1.42	1.174
2,4-DiCB	7		U		0.194		
2,4'-DiCB	8		B	3.87	0.173	1.53	1.207
2,5-DiCB	9			0.305	0.190	1.70	1.143
2,6-DiCB	10		U		0.180		
3,3'-DiCB	11		B	4.63	0.218	1.57	0.969
3,4-DiCB	12	12 + 13	C U		0.217		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.208		
4,4'-DiCB	15			0.680	0.245	1.39	1.000
2,2',3-TriCB	16		B	3.23	0.118	1.10	1.166
2,2',4-TriCB	17		B	4.10	0.101	1.03	1.137
2,2',5-TriCB	18	18 + 30	C B	12.2	0.0845	1.08	1.113
2,2',6-TriCB	19			1.21	0.0937	0.92	1.001
2,3,3'-TriCB	20	20 + 28	C B	50.9	0.218	1.00	0.848
2,3,4-TriCB	21	21 + 33	C B	9.89	0.197	1.03	0.857
2,3,4'-TriCB	22		B	10.4	0.237	1.01	0.872
2,3,5-TriCB	23		U		0.212		
2,3,6-TriCB	24			0.309	0.0733	1.11	1.158
2,3',4-TriCB	25			3.34	0.176	1.01	0.825
2,3',5-TriCB	26	26 + 29	C	7.20	0.209	0.98	1.299
2,3',6-TriCB	27			1.44	0.0705	1.04	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	29.7	0.197	1.02	0.837
2,4',6-TriCB	32		B	3.78	0.191	1.05	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.213		
3,3',4-TriCB	35		U		0.273		
3,3',5-TriCB	36		U		0.226		
3,4,4'-TriCB	37		B	3.06	0.272	0.93	1.001
3,4,5-TriCB	38		U		0.224		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	0.305	0.228	0.64	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	19.3	0.0926	0.75	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			19.4	0.0935	0.77	1.310
2,2',3,5'-TeCB	43			2.44	0.100	0.75	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	95.3	0.0824	0.80	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	5.37	0.0856	0.80	1.145
2,2',3,6'-TeCB	46			1.34	0.0971	0.76	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	7.32	0.0919	0.77	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	70.0	0.0773	0.79	1.258
2,2',4,6'-TeCB	50	50 + 53	C B	6.45	0.0829	0.82	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	171	0.0860	0.79	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.0545		
2,3,3',4'-TeCB	55		U		0.357		
2,3,3',4'-TeCB	56		B	33.4	0.362	0.75	0.905
2,3,3',5'-TeCB	57			0.775	0.328	0.78	0.843
2,3,3',5'-TeCB	58			1.02	0.331	0.66	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	9.36	0.0684	0.82	1.300
2,3,4,4'-TeCB	60		B	23.7	0.371	0.73	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	199	0.326	0.77	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			7.99	0.330	0.72	0.864
2,3,4',6'-TeCB	64		B	24.3	0.0665	0.80	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	101	0.333	0.77	0.884
2,3',4,5'-TeCB	67			3.37	0.289	0.79	0.855
2,3',4,5'-TeCB	68			4.01	0.318	0.68	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			4.78	0.314	0.66	0.822
2,3',5',6'-TeCB	73		U		0.0691		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			7.50	0.320	0.73	1.000
3,3',4,5'-TeCB	78		U		0.376		
3,3',4,5'-TeCB	79			4.23	0.298	0.76	0.969
3,3',5,5'-TeCB	80		U		0.328		
3,4,4',5'-TeCB	81		K	0.518	0.419	1.02	1.001
2,2',3,3',4'-PeCB	82			24.3	0.482	1.61	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	334	0.452	1.58	0.885
2,2',3,3',6'-PeCB	84		B	37.8	0.477	1.57	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	108	0.374	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	293	0.379	1.57	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	38.4	0.420	1.63	1.154
2,2',3,4,6'-PeCB	89		K	1.10	0.449	2.20	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	706	0.375	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	134	0.448	1.55	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	292	0.403	1.58	1.121
2,2',3,5,6'-PeCB	94			1.25	0.449	1.36	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	0.473	0.154	1.87	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			7.53	0.376	1.64	1.093
2,2',4,6,6'-PeCB	104		U		0.149		
2,3,3',4,4'-PeCB	105		B	191	0.797	1.52	1.000
2,3,3',4,5-PeCB	106		U		0.862		
2,3,3',4',5-PeCB	107	107 + 124	C	17.1	0.922	1.55	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			76.5	0.953	1.50	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	355	0.331	1.58	0.925
2,3,3',5,5'-PeCB	111			3.68	0.330	1.39	0.945
2,3,3',5,6-PeCB	112		U		0.317		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			9.75	0.998	1.57	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	527	0.908	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			10.3	0.306	1.53	0.958
2,3',4,5',6-PeCB	121			0.877	0.333	1.43	1.198
2',3,3',4,5-PeCB	122			3.82	1.01	1.35	1.011
2',3,4,4',5-PeCB	123			8.89	1.03	1.51	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			1.41	1.21	1.51	1.000
3,3',4,5,5'-PeCB	127			1.18	0.978	1.53	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	211	0.575	1.29	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	1410	0.559	1.26	0.929
2,2',3,3',4,5'-HxCB	130			79.0	0.712	1.28	0.914
2,2',3,3',4,6-HxCB	131			4.69	0.652	1.14	1.161
2,2',3,3',4,6'-HxCB	132		B	161	0.687	1.26	1.176
2,2',3,3',5,5'-HxCB	133			37.0	0.631	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	33.1	0.654	1.23	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	395	0.158	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	61.4	0.120	1.27	1.026
2,2',3,4,4',5-HxCB	137			31.1	0.696	1.25	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	17.4	0.599	1.30	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			113	0.617	1.28	0.904
2,2',3,4,5,6-HxCB	142		U		0.676		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			37.5	0.159	1.24	1.123
2,2',3,4,6,6'-HxCB	145		K	0.318	0.126	0.54	1.035
2,2',3,4',5,5'-HxCB	146		B	420	0.575	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	660	0.570	1.27	1.134
2,2',3,4',5,6'-HxCB	148		K	5.58	0.166	1.47	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			1.52	0.121	1.36	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	0.114	0.113	0.46	1.007
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	1930	0.486	1.25	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			3.19	0.0999	1.20	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	90.9	0.632	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			76.1	0.438	1.24	0.938
2,3,3',4,5,5'-HxCB	159			7.38	0.477	1.29	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		0.476		
2,3,3',4',5,5'-HxCB	162			6.43	0.479	1.43	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			47.4	0.471	1.25	0.922
2,3,3',5,5',6-HxCB	165			4.70	0.521	1.29	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			48.4	0.447	1.29	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		1.32		
2,2',3,3',4,4',5-HpCB	170		B	159	0.111	1.07	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	64.7	0.120	1.07	1.164
2,2',3,3',4,5,5'-HpCB	172			42.4	0.121	1.06	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			130	0.105	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			14.0	0.110	1.06	1.103
2,2',3,3',4,6,6'-HpCB	176			23.4	0.0814	1.09	1.035
2,2',3,3',4',5,6-HpCB	177		B	177	0.108	1.06	1.146
2,2',3,3',5,5',6-HpCB	178			114	0.113	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179			99.4	0.0787	1.02	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	613	0.0901	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			1.48	0.117	1.08	1.157
2,2',3,4,4',5,6'-HpCB	182		K	3.91	0.108	0.83	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	214	0.111	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			2.61	0.0811	1.14	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.0909		
2,2',3,4',5,5',6-HpCB	187		B	922	0.106	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			2.80	0.0716	1.04	1.000
2,3,3',4,4',5,5'-HpCB	189			8.12	0.196	0.97	1.001
2,3,3',4,4',5,6-HpCB	190			38.4	0.0898	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			7.48	0.0799	1.02	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.102		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			79.7	0.117	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			27.4	0.128	0.88	0.946
2,2',3,3',4,4',5,6'-OxCB	196			39.9	0.136	0.89	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	15.9	0.101	0.83	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	171	0.140	0.91	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			23.6	0.101	0.93	1.022
2,2',3,3',5,5',6,6'-OxCB	202			58.5	0.120	0.89	1.000
2,2',3,4,4',5,5',6-OxCB	203			80.7	0.134	0.90	0.920
2,2',3,4,4',5,6,6'-OxCB	204		K	0.232	0.103	1.34	1.038
2,3,3',4,4',5,5',6-OxCB	205			5.15	0.101	0.92	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	98.4	0.142	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	10.5	0.102	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			42.2	0.0867	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	68.0	0.0959	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-17_Form1A_PB9C_330S11_SJ1077661.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook - 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 Time: 06:52:52

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-17

Sample Size: 2.22 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 11

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 79.6
% Lipid: 1.50

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	1.05	0.225	2.57	1.000
3-MoCB	2			0.998	0.247	3.23	0.988
4-MoCB	3		B	1.54	0.254	3.35	1.000
2,2'-DiCB	4			7.34	1.32	1.57	1.001
2,3-DiCB	5		U		1.06		
2,3'-DiCB	6			4.07	0.925	1.42	1.174
2,4-DiCB	7		U		0.947		
2,4'-DiCB	8		B	18.9	0.844	1.53	1.207
2,5-DiCB	9			1.50	0.932	1.70	1.143
2,6-DiCB	10		U		0.881		
3,3'-DiCB	11		B	22.7	1.07	1.57	0.969
3,4-DiCB	12	12 + 13	C U		1.06		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.02		
4,4'-DiCB	15			3.33	1.20	1.39	1.000
2,2',3-TriCB	16		B	15.9	0.578	1.10	1.166
2,2',4-TriCB	17		B	20.1	0.495	1.03	1.137
2,2',5-TriCB	18	18 + 30	C B	59.7	0.414	1.08	1.113
2,2',6-TriCB	19			5.93	0.459	0.92	1.001
2,3,3'-TriCB	20	20 + 28	C B	250	1.07	1.00	0.848
2,3,4-TriCB	21	21 + 33	C B	48.4	0.961	1.03	0.857
2,3,4'-TriCB	22		B	50.9	1.16	1.01	0.872
2,3,5-TriCB	23		U		1.04		
2,3,6-TriCB	24			1.51	0.359	1.11	1.158
2,3',4-TriCB	25			16.4	0.859	1.01	0.825
2,3',5-TriCB	26	26 + 29	C	35.3	1.03	0.98	1.299
2,3',6-TriCB	27			7.05	0.346	1.04	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	145	0.961	1.02	0.837
2,4',6-TriCB	32		B	18.5	0.932	1.05	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		1.04		
3,3',4-TriCB	35		U		1.34		
3,3',5-TriCB	36		U		1.11		
3,4,4'-TriCB	37		B	15.0	1.34	0.93	1.001
3,4,5-TriCB	38		U		1.10		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	1.50	1.12	0.64	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	94.7	0.454	0.75	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			94.7	0.458	0.77	1.310
2,2',3,5'-TeCB	43			12.0	0.489	0.75	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	467	0.404	0.80	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	26.3	0.419	0.80	1.145
2,2',3,6'-TeCB	46			6.56	0.476	0.76	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	35.9	0.450	0.77	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	343	0.379	0.79	1.258
2,2',4,6'-TeCB	50	50 + 53	C B	31.6	0.406	0.82	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	837	0.421	0.79	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.267		
2,3,3',4'-TeCB	55		U		1.75		
2,3,3',4'-TeCB	56		B	164	1.78	0.75	0.905
2,3,3',5'-TeCB	57			3.79	1.61	0.78	0.843
2,3,3',5'-TeCB	58			5.00	1.62	0.66	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	45.9	0.335	0.82	1.300
2,3,4,4'-TeCB	60		B	116	1.82	0.73	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	976	1.60	0.77	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			39.1	1.61	0.72	0.864
2,3,4',6'-TeCB	64		B	119	0.326	0.80	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	495	1.63	0.77	0.884
2,3',4,5'-TeCB	67			16.5	1.42	0.79	0.855
2,3',4,5'-TeCB	68			19.7	1.56	0.68	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			23.4	1.54	0.66	0.822
2,3',5',6'-TeCB	73		U		0.338		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			36.8	1.57	0.73	1.000
3,3',4,5'-TeCB	78		U		1.84		
3,3',4,5'-TeCB	79			20.7	1.46	0.76	0.969
3,3',5,5'-TeCB	80		U		1.61		
3,4,4',5'-TeCB	81		K	2.54	2.05	1.02	1.001
2,2',3,3',4'-PeCB	82			119	2.36	1.61	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	1640	2.22	1.58	0.885
2,2',3,3',6'-PeCB	84		B	185	2.33	1.57	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	529	1.83	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	1440	1.86	1.57	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	188	2.05	1.63	1.154
2,2',3,4,6'-PeCB	89		K	5.39	2.20	2.20	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	3460	1.83	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	656	2.19	1.55	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	1430	1.97	1.58	1.121
2,2',3,5,6'-PeCB	94			6.12	2.20	1.36	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	2.32	0.756	1.87	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			36.9	1.84	1.64	1.093
2,2',4,6,6'-PeCB	104		U		0.730		
2,3,3',4,4'-PeCB	105		B	932	3.90	1.52	1.000
2,3,3',4,5-PeCB	106		U		4.22		
2,3,3',4',5-PeCB	107	107 + 124	C	83.7	4.51	1.55	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			375	4.67	1.50	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	1740	1.62	1.58	0.925
2,3,3',5,5'-PeCB	111			18.1	1.61	1.39	0.945
2,3,3',5,6-PeCB	112		U		1.56		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			47.8	4.89	1.57	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	2580	4.45	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			50.5	1.50	1.53	0.958
2,3',4,5',6-PeCB	121			4.29	1.63	1.43	1.198
2',3,3',4,5-PeCB	122			18.7	4.95	1.35	1.011
2',3,4,4',5-PeCB	123			43.5	5.05	1.51	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			6.91	5.93	1.51	1.000
3,3',4,5,5'-PeCB	127			5.78	4.79	1.53	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	1030	2.82	1.29	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	6910	2.74	1.26	0.929
2,2',3,3',4,5'-HxCB	130			387	3.49	1.28	0.914
2,2',3,3',4,6-HxCB	131			23.0	3.19	1.14	1.161
2,2',3,3',4,6'-HxCB	132		B	785	3.37	1.26	1.176
2,2',3,3',5,5'-HxCB	133			181	3.09	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	162	3.21	1.23	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1940	0.771	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	301	0.588	1.27	1.026
2,2',3,4,4',5-HxCB	137			153	3.41	1.25	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	85.1	2.94	1.30	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			553	3.02	1.28	0.904
2,2',3,4,5,6-HxCB	142		U		3.31		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			183	0.778	1.24	1.123
2,2',3,4,6,6'-HxCB	145		K	1.56	0.617	0.54	1.035
2,2',3,4',5,5'-HxCB	146		B	2050	2.82	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	3240	2.79	1.27	1.134
2,2',3,4',5,6'-HxCB	148		K	27.3	0.815	1.47	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			7.41	0.593	1.36	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	0.558	0.553	0.46	1.007
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	9470	2.38	1.25	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			15.6	0.489	1.20	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	445	3.10	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			373	2.14	1.24	0.938
2,3,3',4,5,5'-HxCB	159			36.2	2.33	1.29	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		2.33		
2,3,3',4',5,5'-HxCB	162			31.5	2.35	1.43	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			232	2.30	1.25	0.922
2,3,3',5,5',6-HxCB	165			23.0	2.55	1.29	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			237	2.19	1.29	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		6.47		
2,2',3,3',4,4',5-HpCB	170		B	778	0.544	1.07	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	317	0.588	1.07	1.164
2,2',3,3',4,5,5'-HpCB	172			208	0.593	1.06	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			637	0.514	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			68.5	0.539	1.06	1.103
2,2',3,3',4,6,6'-HpCB	176			114	0.398	1.09	1.035
2,2',3,3',4',5,6-HpCB	177		B	866	0.529	1.06	1.146
2,2',3,3',5,5',6-HpCB	178			558	0.553	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179			487	0.385	1.02	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	3000	0.441	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			7.25	0.573	1.08	1.157
2,2',3,4,4',5,6'-HpCB	182		K	19.2	0.529	0.83	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	1050	0.544	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			12.8	0.397	1.14	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.445		
2,2',3,4',5,5',6-HpCB	187		B	4510	0.520	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			13.7	0.351	1.04	1.000
2,3,3',4,4',5,5'-HpCB	189			39.8	0.961	0.97	1.001
2,3,3',4,4',5,6-HpCB	190			188	0.440	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			36.6	0.391	1.02	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.500		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			390	0.573	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			134	0.627	0.88	0.946
2,2',3,3',4,4',5,6'-OxCB	196			195	0.666	0.89	0.916
2,2',3,3',4,4',6-OxCB	197	197 + 200	C	77.8	0.495	0.83	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	837	0.685	0.91	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			116	0.495	0.93	1.022
2,2',3,3',5,5',6,6'-OxCB	202			286	0.588	0.89	1.000
2,2',3,4,4',5,5',6-OxCB	203			396	0.656	0.90	0.920
2,2',3,4,4',5,6,6'-OxCB	204		K	1.14	0.505	1.34	1.038
2,3,3',4,4',5,5',6-OxCB	205			25.2	0.495	0.92	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	482	0.696	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	51.4	0.500	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			207	0.425	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	333	0.470	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-17_Form1A_PB9C_330S11_SJ1077661_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook - 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 30-Oct-2009 Time: 06:52:52

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-17

Sample Size: 0.163 g (lipid)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 11

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 79.6
% Lipid: 1.50

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	14.3	3.07	2.57	1.000
3-MoCB	2			13.6	3.37	3.23	0.988
4-MoCB	3		B	21.0	3.46	3.35	1.000
2,2'-DiCB	4			100	18.0	1.57	1.001
2,3-DiCB	5		U		14.4		
2,3'-DiCB	6			55.4	12.6	1.42	1.174
2,4-DiCB	7		U		12.9		
2,4'-DiCB	8		B	258	11.5	1.53	1.207
2,5-DiCB	9			20.4	12.7	1.70	1.143
2,6-DiCB	10		U		12.0		
3,3'-DiCB	11		B	309	14.6	1.57	0.969
3,4-DiCB	12	12 + 13	C U		14.5		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		13.9		
4,4'-DiCB	15			45.4	16.4	1.39	1.000
2,2',3-TriCB	16		B	216	7.88	1.10	1.166
2,2',4-TriCB	17		B	274	6.74	1.03	1.137
2,2',5-TriCB	18	18 + 30	C B	814	5.64	1.08	1.113
2,2',6-TriCB	19			80.8	6.25	0.92	1.001
2,3,3'-TriCB	20	20 + 28	C B	3400	14.6	1.00	0.848
2,3,4-TriCB	21	21 + 33	C B	660	13.1	1.03	0.857
2,3,4'-TriCB	22		B	694	15.8	1.01	0.872
2,3,5-TriCB	23		U		14.2		
2,3,6-TriCB	24			20.6	4.89	1.11	1.158
2,3',4-TriCB	25			223	11.7	1.01	0.825
2,3',5-TriCB	26	26 + 29	C	481	14.0	0.98	1.299
2,3',6-TriCB	27			96.1	4.71	1.04	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	1980	13.1	1.02	0.837
2,4',6-TriCB	32		B	252	12.7	1.05	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		14.2		
3,3',4-TriCB	35		U		18.2		
3,3',5-TriCB	36		U		15.1		
3,4,4'-TriCB	37		B	204	18.2	0.93	1.001
3,4,5-TriCB	38		U		15.0		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	20.4	15.2	0.64	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	1290	6.18	0.75	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			1290	6.24	0.77	1.310
2,2',3,5'-TeCB	43			163	6.67	0.75	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	6360	5.50	0.80	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	358	5.71	0.80	1.145
2,2',3,6'-TeCB	46			89.4	6.48	0.76	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	489	6.13	0.77	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	4670	5.16	0.79	1.258
2,2',4,6'-TeCB	50	50 + 53	C B	431	5.53	0.82	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	11400	5.74	0.79	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		3.64		
2,3,3',4'-TeCB	55		U		23.8		
2,3,3',4'-TeCB	56		B	2230	24.2	0.75	0.905
2,3,3',5'-TeCB	57			51.7	21.9	0.78	0.843
2,3,3',5'-TeCB	58			68.1	22.1	0.66	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C	625	4.57	0.82	1.300
2,3,4,4'-TeCB	60		B	1580	24.8	0.73	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	13300	21.8	0.77	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			533	22.0	0.72	0.864
2,3,4',6'-TeCB	64		B	1620	4.44	0.80	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	6740	22.2	0.77	0.884
2,3',4,5'-TeCB	67			225	19.3	0.79	0.855
2,3',4,5'-TeCB	68			268	21.2	0.68	0.830
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			319	21.0	0.66	0.822
2,3',5',6'-TeCB	73		U		4.61		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			501	21.4	0.73	1.000
3,3',4,5'-TeCB	78		U		25.1		
3,3',4,5'-TeCB	79			282	19.9	0.76	0.969
3,3',5,5'-TeCB	80		U		21.9		
3,4,4',5'-TeCB	81		K	34.6	28.0	1.02	1.001
2,2',3,3',4'-PeCB	82			1620	32.2	1.61	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	22300	30.2	1.58	0.885
2,2',3,3',6'-PeCB	84		B	2520	31.8	1.57	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	7210	25.0	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	19600	25.3	1.57	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	2560	28.0	1.63	1.154
2,2',3,4,6'-PeCB	89		K	73.4	30.0	2.20	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	47100	25.0	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	8940	29.9	1.55	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	19500	26.9	1.58	1.121
2,2',3,5,6'-PeCB	94			83.4	30.0	1.36	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	31.6	10.3	1.87	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			503	25.1	1.64	1.093
2,2',4,6,6'-PeCB	104		U		9.95		
2,3,3',4,4'-PeCB	105		B	12700	53.2	1.52	1.000
2,3,3',4,5-PeCB	106		U		57.5		
2,3,3',4',5-PeCB	107	107 + 124	C	1140	61.5	1.55	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			5110	63.6	1.50	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	23700	22.1	1.58	0.925
2,3,3',5,5'-PeCB	111			246	22.0	1.39	0.945
2,3,3',5,6-PeCB	112		U		21.2		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			651	66.6	1.57	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	35200	60.6	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			688	20.4	1.53	0.958
2,3',4,5',6-PeCB	121			58.5	22.2	1.43	1.198
2',3,3',4,5-PeCB	122			255	67.4	1.35	1.011
2',3,4,4',5-PeCB	123			593	68.8	1.51	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			94.1	80.8	1.51	1.000
3,3',4,5,5'-PeCB	127			78.8	65.3	1.53	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	14100	38.4	1.29	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	94100	37.3	1.26	0.929
2,2',3,3',4,5'-HxCB	130			5270	47.5	1.28	0.914
2,2',3,3',4,6-HxCB	131			313	43.5	1.14	1.161
2,2',3,3',4,6'-HxCB	132		B	10700	45.9	1.26	1.176
2,2',3,3',5,5'-HxCB	133			2470	42.1	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	2210	43.7	1.23	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	26400	10.5	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	4100	8.01	1.27	1.026
2,2',3,4,4',5-HxCB	137			2080	46.5	1.25	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	1160	40.0	1.30	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			7540	41.2	1.28	0.904
2,2',3,4,5,6-HxCB	142		U		45.1		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			2500	10.6	1.24	1.123
2,2',3,4,6,6'-HxCB	145		K	21.2	8.41	0.54	1.035
2,2',3,4',5,5'-HxCB	146		B	28000	38.4	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	44100	38.0	1.27	1.134
2,2',3,4',5,6'-HxCB	148		K	372	11.1	1.47	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			101	8.08	1.36	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	7.61	7.54	0.46	1.007
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	129000	32.4	1.25	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			213	6.67	1.20	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	6070	42.2	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			5080	29.2	1.24	0.938
2,3,3',4,5,5'-HxCB	159			493	31.8	1.29	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		31.8		
2,3,3',4',5,5'-HxCB	162			429	32.0	1.43	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			3160	31.4	1.25	0.922
2,3,3',5,5',6-HxCB	165			314	34.8	1.29	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			3230	29.8	1.29	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		88.1		
2,2',3,3',4,4',5'-HpCB	170		B	10600	7.41	1.07	0.937
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C	4320	8.01	1.07	1.164
2,2',3,3',4,5,5'-HpCB	172			2830	8.08	1.06	0.897
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			8680	7.01	1.05	1.134
2,2',3,3',4,5',6'-HpCB	175			934	7.34	1.06	1.103
2,2',3,3',4,6',6'-HpCB	176			1560	5.43	1.09	1.035
2,2',3,3',4',5,6'-HpCB	177		B	11800	7.21	1.06	1.146
2,2',3,3',5,5',6'-HpCB	178			7610	7.54	1.06	1.085
2,2',3,3',5,6',6'-HpCB	179			6630	5.25	1.02	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	40900	6.01	1.05	0.910
2,2',3,4,4',5,6'-HpCB	181			98.8	7.81	1.08	1.157
2,2',3,4,4',5,6'-HpCB	182		K	261	7.21	0.83	1.116
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C	14300	7.41	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			174	5.41	1.14	1.024
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		6.07		
2,2',3,4',5,5',6'-HpCB	187		B	61500	7.08	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			187	4.78	1.04	1.000
2,3,3',4,4',5,5'-HpCB	189			542	13.1	0.97	1.001
2,3,3',4,4',5,6'-HpCB	190			2560	5.99	1.04	0.947
2,3,3',4,4',5',6'-HpCB	191			499	5.33	1.02	0.918
2,3,3',4,5,5',6'-HpCB	192		U		6.81		
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			5320	7.81	0.89	0.991
2,2',3,3',4,4',5,6'-OxCB	195			1830	8.54	0.88	0.946
2,2',3,3',4,4',5,6'-OxCB	196			2660	9.08	0.89	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	1060	6.74	0.83	1.045
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C	11400	9.34	0.91	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			1580	6.74	0.93	1.022
2,2',3,3',5,5',6,6'-OxCB	202			3900	8.01	0.89	1.000
2,2',3,4,4',5,5',6'-OxCB	203			5390	8.94	0.90	0.920
2,2',3,4,4',5,6,6'-OxCB	204		K	15.5	6.88	1.34	1.038
2,3,3',4,4',5,5',6'-OxCB	205			344	6.74	0.92	1.001
2,2',3,3',4,4',5,5',6'-NoCB	206		T	6570	9.48	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	701	6.81	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			2820	5.79	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	4540	6.40	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_L13452-17_Form1A_PB9C_330S11_SJ1077661_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Tannery Brook - 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 30-Oct-2009 Time: 06:52:52
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-17
Sample Size: 10.9 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 11
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 79.6
% Lipid: 1.50

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	865	43.2	3.23	0.722
13C12-4-MoCB	3L			2000	1000	50.0	3.19	0.860
13C12-2,2'-DiCB	4L			2000	1060	53.1	1.59	0.875
13C12-4,4'-DiCB	15L			2000	1020	50.9	1.57	1.253
13C12-2,2',6-TriCB	19L			2000	1240	61.8	1.05	1.072
13C12-3,4,4'-TriCB	37L			2000	1190	59.7	1.04	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1570	78.7	0.81	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1530	76.7	0.78	1.397
13C12-3,4,4',5-TeCB	81L			2000	1200	59.8	0.80	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1520	76.2	1.55	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1510	75.4	1.52	1.200
13C12-2,3,4,4',5-PeCB	114L			2000	1200	60.0	1.59	1.179
13C12-2,3',4,4',5-PeCB	118L			2000	1310	65.3	1.58	1.161
13C12-2',3,4,4',5-PeCB	123L			2000	1220	61.2	1.55	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1270	63.4	1.55	1.301
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1450	72.6	1.28	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2950	73.8	1.29	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1490	74.7	1.29	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1450	72.5	1.31	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1490	74.4	1.09	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1820	90.8	1.06	0.873
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1690	84.4	1.06	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1360	68.2	1.04	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1640	82.2	0.91	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1630	81.7	0.96	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2310	115	0.85	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1690	84.6	0.83	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1950	97.3	1.21	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1390	69.4	1.04	0.924
13C12-2,3,3',5,5'-PeCB	111L			2000	2060	103	1.61	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1470	73.6	1.07	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. N/A

Lab Sample I.D.: WG30036-101

Matrix: CANOLA OIL

Sample Size: 10.0 g

Sample Receipt Date: N/A

Initial Calibration Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 16-Oct-2009 Time: 12:34:19

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_312 S: 5

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_312 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_312 S: 1

Concentration Units: pg/g

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1			0.054	0.0500	2.94	1.000
3-MoCB	2		U		0.0503		
4-MoCB	3		K	0.214	0.0523	4.25	1.001
2,2'-DiCB	4		U		0.166		
2,3-DiCB	5		U		0.127		
2,3'-DiCB	6		U		0.116		
2,4-DiCB	7		U		0.118		
2,4'-DiCB	8			0.300	0.107	1.38	1.205
2,5-DiCB	9		U		0.113		
2,6-DiCB	10		U		0.109		
3,3'-DiCB	11			0.768	0.120	1.49	0.969
3,4-DiCB	12	12 + 13	C U		0.121		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.116		
4,4'-DiCB	15		U		0.128		
2,2',3-TriCB	16		K	0.078	0.0636	0.84	1.167
2,2',4-TriCB	17		K	0.124	0.0527	0.83	1.136
2,2',5-TriCB	18	18 + 30	C K	0.208	0.0500	1.45	1.112
2,2',6-TriCB	19		U		0.0500		
2,3,3'-TriCB	20	20 + 28	C	0.308	0.0500	0.98	0.848
2,3,4-TriCB	21	21 + 33	C K	0.167	0.0500	1.44	0.857
2,3,4'-TriCB	22		K	0.105	0.0500	0.75	0.872
2,3,5-TriCB	23		U		0.0500		
2,3,6-TriCB	24		U		0.0500		
2,3',4-TriCB	25		U		0.0500		
2,3',5-TriCB	26	26 + 29	C U		0.0500		
2,3',6-TriCB	27		U		0.0500		
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31			0.249	0.0500	1.09	0.837
2,4',6-TriCB	32		K	0.058	0.0500	0.80	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.0500		
3,3',4-TriCB	35		U		0.0500		
3,3',5-TriCB	36		U		0.0500		
3,4,4'-TriCB	37		K	0.050	0.0500	0.88	1.001
3,4,5-TriCB	38		U		0.0500		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		U		0.0500		
2,2',3,3'-TeCB	40	40 + 41 + 71	C	0.096	0.0502	0.86	1.334
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		U		0.0526		
2,2',3,5'-TeCB	43		U		0.0636		
2,2',3,5'-TeCB	44	44 + 47 + 65	C	0.281	0.0500	0.73	1.283
2,2',3,6'-TeCB	45	45 + 51	C K	0.057	0.0544	1.67	1.145
2,2',3,6'-TeCB	46		U		0.0612		
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		K	0.064	0.0531	0.64	1.271
2,2',4,5'-TeCB	49	49 + 69	C K	0.153	0.0500	1.25	1.256
2,2',4,6'-TeCB	50	50 + 53	C K	0.062	0.0539	1.43	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		K	0.350	0.0500	0.96	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.0500		
2,3,3',4'-TeCB	55		U		0.0500		
2,3,3',4'-TeCB	56		K	0.052	0.0500	0.64	0.905
2,3,3',5'-TeCB	57		U		0.0500		
2,3,3',5'-TeCB	58		U		0.0500		
2,3,3',6'-TeCB	59	59 + 62 + 75	C U		0.0500		
2,3,4,4'-TeCB	60			0.050	0.0500	0.81	0.912
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C	0.326	0.0500	0.81	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		U		0.0500		
2,3,4',6'-TeCB	64			0.071	0.0500	0.84	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			0.153	0.0500	0.71	0.885
2,3',4,5'-TeCB	67		U		0.0500		
2,3',4,5'-TeCB	68		U		0.0500		
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		U		0.0500		
2,3',5,6'-TeCB	73		U		0.0500		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		U		0.0500		
3,3',4,5'-TeCB	78		U		0.0500		
3,3',4,5'-TeCB	79		U		0.0500		
3,3',5,5'-TeCB	80		U		0.0500		
3,4,4',5'-TeCB	81		U		0.0500		
2,2',3,3',4'-PeCB	82		U		0.0663		
2,2',3,3',5'-PeCB	83	83 + 99	C K	0.207	0.0625	1.12	0.885
2,2',3,3',6'-PeCB	84		K	0.090	0.0705	1.23	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C U		0.0511		
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	0.303	0.0532	1.46	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C U		0.0629		
2,2',3,4,6'-PeCB	89		U		0.0663		
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C K	0.418	0.0552	2.09	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		K	0.074	0.0625	1.17	0.854
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C K	0.363	0.0621	1.29	1.122
2,2',3,5,6'-PeCB	94		U		0.0698		
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		0.0500		
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		U		0.0585		
2,2',4,6,6'-PeCB	104		U		0.0500		
2,3,3',4,4'-PeCB	105			0.110	0.0500	1.38	1.001
2,3,3',4,5-PeCB	106		U		0.0500		
2,3,3',4',5-PeCB	107	107 + 124	C U		0.0500		
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		U		0.0500		
2,3,3',4',6-PeCB	110	110 + 115	C K	0.359	0.0500	1.84	0.925
2,3,3',5,5'-PeCB	111		U		0.0500		
2,3,3',5,6-PeCB	112		U		0.0500		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		U		0.0500		
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		K	0.329	0.0500	1.91	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		U		0.0500		
2,3',4,5',6-PeCB	121		U		0.0500		
2',3,3',4,5-PeCB	122		U		0.0500		
2',3,4,4',5-PeCB	123		U		0.0500		
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		U		0.0500		
3,3',4,5,5'-PeCB	127		U		0.0500		
2,2',3,3',4,4'-HxCB	128	128 + 166	C U		0.0500		
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	0.321	0.0500	1.24	0.929
2,2',3,3',4,5'-HxCB	130		U		0.0569		
2,2',3,3',4,6-HxCB	131		U		0.0536		
2,2',3,3',4,6'-HxCB	132			0.060	0.0570	1.35	1.177
2,2',3,3',5,5'-HxCB	133		U		0.0523		
2,2',3,3',5,6-HxCB	134	134 + 143	C U		0.0549		
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	0.138	0.0500	1.31	1.105
2,2',3,3',6,6'-HxCB	136		K	0.060	0.0500	0.87	1.027
2,2',3,4,4',5-HxCB	137		U		0.0521		
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C U		0.0505		
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		U		0.0500		
2,2',3,4,5,6-HxCB	142		U		0.0571		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		U		0.0500		
2,2',3,4,6,6'-HxCB	145		U		0.0500		
2,2',3,4',5,5'-HxCB	146		K	0.097	0.0500	1.58	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C K	0.202	0.0501	0.91	1.135
2,2',3,4',5,6'-HxCB	148		U		0.0500		
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		U		0.0500		
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.0500		
2,2',4,4',5,5'-HxCB	153	153 + 168	C	0.276	0.0500	1.08	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		0.0500		
2,3,3',4,4',5-HxCB	156	156 + 157	C U		0.0517		
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		U		0.0500		
2,3,3',4,5,5'-HxCB	159		U		0.0500		
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		0.0500		
2,3,3',4',5,5'-HxCB	162		U		0.0500		
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		U		0.0500		
2,3,3',5,5',6-HxCB	165		U		0.0500		
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		U		0.0500		
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		0.0500		
2,2',3,3',4,4',5-HpCB	170		K	0.052	0.0500	0.85	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C U		0.0500		
2,2',3,3',4,5,5'-HpCB	172		U		0.0500		
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		U		0.0500		
2,2',3,3',4,5',6-HpCB	175		U		0.0500		
2,2',3,3',4,6,6'-HpCB	176		U		0.0500		
2,2',3,3',4',5,6-HpCB	177		K	0.057	0.0500	1.25	1.146
2,2',3,3',5,5',6-HpCB	178		U		0.0500		
2,2',3,3',5,6,6'-HpCB	179		U		0.0500		
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	0.129	0.0500	1.08	0.910
2,2',3,4,4',5,6-HpCB	181		U		0.0500		
2,2',3,4,4',5,6'-HpCB	182		U		0.0500		
2,2',3,4,4',5',6-HpCB	183	183 + 185	C U		0.0500		
2,2',3,4,4',6,6'-HpCB	184		U		0.0500		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.0500		
2,2',3,4',5,5',6-HpCB	187		K	0.125	0.0500	0.71	1.110
2,2',3,4',5,6,6'-HpCB	188		U		0.0500		
2,3,3',4,4',5,5'-HpCB	189		U		0.0500		
2,3,3',4,4',5,6-HpCB	190		U		0.0500		
2,3,3',4,4',5',6-HpCB	191		U		0.0500		
2,3,3',4,5,5',6-HpCB	192		U		0.0500		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		U		0.0500		
2,2',3,3',4,4',5,6-OxCB	195		U		0.0500		
2,2',3,3',4,4',5,6'-OxCB	196		U		0.0500		
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C U		0.0500		
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C U		0.0500		
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		U		0.0500		
2,2',3,3',5,5',6,6'-OxCB	202		U		0.0500		
2,2',3,4,4',5,5',6-OxCB	203		U		0.0500		
2,2',3,4,4',5,6,6'-OxCB	204		U		0.0500		
2,3,3',4,4',5,5',6-OxCB	205		U		0.0500		
2,2',3,3',4,4',5,5',6-NoCB	206		U		0.0500		
2,2',3,3',4,4',5,6,6'-NoCB	207		U		0.0500		
2,2',3,3',4,5,5',6,6'-NoCB	208		U		0.0500		
2,2',3,3',4,4',5,5',6,6'-DeCB	209		K	0.113	0.0500	0.98	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_WG30036-101_Form1A_PB9C_312S5_SJ1077140.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: CANOLA OIL
Sample Receipt Date: N/A
Extraction Date: 04-Sep-2009
Analysis Date: 16-Oct-2009 Time: 12:34:19
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. N/A
Lab Sample I.D.: WG30036-101
Sample Size: 10.0 g
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_312 S: 5
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_312 S: 1

LABELLED COMPOUND	IUPAC NO. 1	CO-ELUTIONS	LAB FLAG 2	SPIKE CONC.	CONC. FOUND	R(%) 3	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	872	43.6	3.22	0.722
13C12-4-MoCB	3L			2000	920	46.0	3.20	0.860
13C12-2,2'-DiCB	4L			2000	1110	55.7	1.57	0.876
13C12-4,4'-DiCB	15L			2000	1190	59.7	1.57	1.253
13C12-2,2',6-TriCB	19L			2000	1470	73.5	1.05	1.072
13C12-3,4,4'-TriCB	37L			2000	1250	62.5	1.02	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1290	64.4	0.80	0.813
13C12-3,3',4,4'-TeCB	77L			2000	1700	84.9	0.76	1.397
13C12-3,4,4',5-TeCB	81L			2000	1700	84.9	0.79	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1450	72.4	1.56	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1710	85.7	1.60	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1560	77.8	1.59	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1620	80.8	1.57	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1620	80.8	1.56	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1880	94.1	1.58	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1410	70.6	1.23	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	3590	89.8	1.28	1.107
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1740	87.1	1.30	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1970	98.5	1.29	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1690	84.4	1.04	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1670	83.7	1.05	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1370	68.7	1.06	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1720	85.9	1.03	0.959
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			2000	1560	77.9	0.92	0.818
13C12-2,3,3',4,4',5,5',6-OcCB	205L			2000	1720	85.9	0.92	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	1720	86.0	0.81	1.043
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1610	80.6	0.80	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1730	86.3	1.18	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1230	61.6	1.04	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1750	87.3	1.61	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1870	93.7	1.05	1.011

(1) Suffix "L" indicates labeled compound.
 (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
 (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



**Form 8A
PCB CONGENER ONGOING PRECISION AND RECOVERY (OPR)**

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4574	Lab Sample I.D.:	WG30036-102
Matrix:	CANOLA OIL	Initial Calibration Date:	01-Sep-2009
Extraction Date:	04-Sep-2009	Instrument ID:	HR GC/MS
Analysis Date:	16-Oct-2009 Time: 09:21:09	GC Column ID:	SPB OCTYL
Extract Volume (uL):	20	OPR Data Filename:	PB9C_312 S: 2
Injection Volume (uL):	1.0	Blank Data Filename:	PB9C_312 S: 5
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB9C_312 S: 1

CONCENTRATIONS REPORTED ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
2-MoCB	1			3.10	50.0	46.4	25.0 - 75.0	92.8
4-MoCB	3			3.12	50.0	45.3	25.0 - 75.0	90.6
2,2'-DiCB	4			1.53	50.0	48.3	25.0 - 75.0	96.5
4,4'-DiCB	15			1.50	50.0	45.7	25.0 - 75.0	91.4
2,2',6-TriCB	19			1.06	50.0	45.3	25.0 - 75.0	90.6
3,4,4'-TriCB	37			1.03	50.0	47.9	25.0 - 75.0	95.9
2,2',6,6'-TeCB	54			0.80	50.0	44.2	25.0 - 75.0	88.3
3,3',4,4'-TeCB	77			0.78	50.0	47.3	25.0 - 75.0	94.7
3,4,4',5-TeCB	81			0.78	50.0	47.4	25.0 - 75.0	94.9
2,2',4,6,6'-PeCB	104			1.55	50.0	45.8	25.0 - 75.0	91.7
2,3,3',4,4'-PeCB	105			1.57	50.0	49.0	25.0 - 75.0	98.0
2,3,4,4',5-PeCB	114			1.57	50.0	48.5	25.0 - 75.0	97.0
2,3',4,4',5-PeCB	118			1.56	50.0	48.1	25.0 - 75.0	96.2
2',3,4,4',5-PeCB	123			1.56	50.0	47.8	25.0 - 75.0	95.6
3,3',4,4',5-PeCB	126			1.57	50.0	49.5	25.0 - 75.0	98.9
2,2',4,4',6,6'-HxCB	155			1.25	50.0	44.9	25.0 - 75.0	89.9
2,3,3',4,4',5-HxCB	156	156 + 157	C	1.27	100	95.0	50.0 - 150	95.0
2,3,3',4,4',5',5'-HxCB	157	156 + 157	C156					
2,3',4,4',5,5',5'-HxCB	167			1.26	50.0	46.7	25.0 - 75.0	93.5
3,3',4,4',5,5',5'-HxCB	169			1.25	50.0	46.9	25.0 - 75.0	93.8
2,2',3,4',5,6,6'-HpCB	188			1.03	50.0	45.6	25.0 - 75.0	91.2
2,3,3',4,4',5,5',5'-HpCB	189			1.01	50.0	49.8	25.0 - 75.0	99.6
2,2',3,3',5,5',6,6'-OxCB	202			0.91	50.0	49.9	25.0 - 75.0	99.7
2,3,3',4,4',5,5',6-OxCB	205			0.91	50.0	48.4	25.0 - 75.0	96.8
2,2',3,3',4,4',5,5',6-NoCB	206			0.79	50.0	48.1	25.0 - 75.0	96.1
2,2',3,3',4,4',5,5',6,6'-NoCB	208			0.77	50.0	46.9	25.0 - 75.0	93.7
2,2',3,3',4,4',5,5',6,6'-DeCB	209			0.69	50.0	47.4	25.0 - 75.0	94.7

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16688A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_WG30036-102_Form8A_SJ1077133.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



PCB CONGENER ONGOING PRECISION AND RECOVERY (OPR)

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4574	Lab Sample I.D.:	WG30036-102
Matrix:	CANOLA OIL	Initial Calibration Date:	01-Sep-2009
Extraction Date:	04-Sep-2009	Instrument ID:	HR GC/MS
Analysis Date:	16-Oct-2009 Time: 09:21:09	GC Column ID:	SPB OCTYL
Extract Volume (uL):	20	OPR Data Filename:	PB9C_312 S: 2
Injection Volume (uL):	1.0	Blank Data Filename:	PB9C_312 S: 5
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB9C_312 S: 1

CONCENTRATIONS REPORTED ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
13C12-2-MoCB	1L			3.23	100	43.5	15.0 - 140	43.5
13C12-4-MoCB	3L			3.18	100	48.0	15.0 - 140	48.0
13C12-2,2'-DiCB	4L			1.57	100	57.8	30.0 - 140	57.8
13C12-4,4'-DiCB	15L			1.58	100	63.3	30.0 - 140	63.3
13C12-2,2',6-TriCB	19L			1.04	100	76.8	30.0 - 140	76.8
13C12-3,4,4'-TriCB	37L			1.05	100	66.0	30.0 - 140	66.0
13C12-2,2',6,6'-TeCB	54L			0.80	100	70.4	30.0 - 140	70.4
13C12-3,3',4,4'-TeCB	77L			0.77	100	91.2	30.0 - 140	91.2
13C12-3,4,4',5'-TeCB	81L			0.78	100	88.6	30.0 - 140	88.6
13C12-2,2',4,6,6'-PeCB	104L			1.57	100	76.1	30.0 - 140	76.1
13C12-2,3,3',4,4'-PeCB	105L			1.57	100	89.6	30.0 - 140	89.6
13C12-2,3,4,4',5'-PeCB	114L			1.59	100	82.6	30.0 - 140	82.6
13C12-2,3',4,4',5'-PeCB	118L			1.58	100	85.3	30.0 - 140	85.3
13C12-2',3,4,4',5'-PeCB	123L			1.59	100	85.4	30.0 - 140	85.4
13C12-3,3',4,4',5'-PeCB	126L			1.56	100	102	30.0 - 140	102
13C12-2,2',4,4',6,6'-HxCB	155L			1.23	100	71.2	30.0 - 140	71.2
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	1.30	200	178	60.0 - 280	88.8
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			1.29	100	87.6	30.0 - 140	87.6
13C12-3,3',4,4',5,5'-HxCB	169L			1.27	100	94.5	30.0 - 140	94.5
13C12-2,2',3,4',5,6,6'-HpCB	188L			1.04	100	65.4	30.0 - 140	65.4
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.05	100	80.1	30.0 - 140	80.1
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			0.94	100	72.1	30.0 - 140	72.1
13C12-2,3,3',4,4',5,5',6-OxCB	205L			0.94	100	80.2	30.0 - 140	80.2
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.81	100	76.8	30.0 - 140	76.8
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			0.80	100	76.8	30.0 - 140	76.8
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			1.20	100	80.1	30.0 - 140	80.1

CLEANUP STANDARD

13C12-2,4,4'-TriCB	28L			1.05	100	64.5	40.0 - 125	64.5
13C12-2,3,3',5,5'-PeCB	111L			1.60	100	92.4	40.0 - 125	92.4
13C12-2,2',3,3',5,5',6-HpCB	178L			1.05	100	88.4	40.0 - 125	88.4

(1) Suffix "L" indicates labeled compound.

(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16688B.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_WG30036-102_Form8B_SJ1077133.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females (Duplicate)
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 29-Oct-2009 Time: 23:22:13

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: WG30036-103 (DUP L13452-6)

Sample Size: 10.2 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 4

Blank Data Filename: PB9C_312 S: 5

Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 80.7
% Lipid: 1.18

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.419	0.0498	3.02	1.001
3-MoCB	2			0.245	0.0605	2.76	0.987
4-MoCB	3		B	0.336	0.0636	3.53	1.000
2,2'-DiCB	4			4.16	0.230	1.52	1.001
2,3-DiCB	5		U		0.168		
2,3'-DiCB	6			2.47	0.148	1.44	1.174
2,4-DiCB	7		K	0.381	0.152	2.00	1.155
2,4'-DiCB	8		B	9.17	0.135	1.55	1.207
2,5-DiCB	9		K	0.604	0.149	1.81	1.143
2,6-DiCB	10		K	0.248	0.140	2.68	1.013
3,3'-DiCB	11		B	7.10	0.170	1.46	0.969
3,4-DiCB	12	12 + 13	C K	0.407	0.170	4.36	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.162		
4,4'-DiCB	15			1.15	0.181	1.69	0.999
2,2',3-TriCB	16		B	10.5	0.0972	1.00	1.165
2,2',4-TriCB	17		B	17.3	0.0834	1.04	1.137
2,2',5-TriCB	18	18 + 30	C B	52.3	0.0696	1.06	1.113
2,2',6-TriCB	19			5.89	0.0910	1.07	1.001
2,3,3'-TriCB	20	20 + 28	C B	290	0.0926	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	44.2	0.0837	1.01	0.857
2,3,4'-TriCB	22		B	56.3	0.101	1.01	0.872
2,3,5-TriCB	23		K	0.114	0.0897	0.85	1.280
2,3,6-TriCB	24			0.998	0.0603	1.03	1.158
2,3',4-TriCB	25			19.4	0.0746	0.99	0.824
2,3',5-TriCB	26	26 + 29	C	45.8	0.0887	1.00	1.299
2,3',6-TriCB	27			7.85	0.0581	1.04	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	136	0.0833	1.00	0.835
2,4',6-TriCB	32		B	26.8	0.0811	1.00	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			0.762	0.0901	1.05	1.272
3,3',4-TriCB	35		U		0.116		
3,3',5-TriCB	36		U		0.0957		
3,4,4'-TriCB	37		B	14.9	0.104	1.01	1.001
3,4,5-TriCB	38			1.42	0.0948	1.06	0.966



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			2.10	0.0965	0.99	0.944
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	192	0.0749	0.78	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			150	0.0756	0.80	1.310
2,2',3,5'-TeCB	43			20.7	0.0808	0.75	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	688	0.0666	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	50.3	0.0693	0.79	1.146
2,2',3,6'-TeCB	46			10.1	0.0786	0.80	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	45.2	0.0744	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	396	0.0625	0.79	1.258
2,2',4,6'-TeCB	50	50 + 53	C B	55.8	0.0671	0.77	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	968	0.0696	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			0.334	0.0491	0.78	1.001
2,3,3',4'-TeCB	55		U		4.09		
2,3,3',4'-TeCB	56		B	195	4.15	0.74	0.905
2,3,3',5'-TeCB	57			6.07	3.75	0.76	0.843
2,3,3',5'-TeCB	58			4.10	3.79	0.74	0.852
2,3,3',6'-TeCB	59	59 + 62 + 75	C	72.0	0.0553	0.80	1.300
2,3,4,4'-TeCB	60		B	216	4.25	0.75	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	1040	3.74	0.77	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			58.8	3.78	0.77	0.864
2,3,4',6'-TeCB	64		B	264	0.0538	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	900	3.82	0.77	0.884
2,3',4,5'-TeCB	67			18.1	3.31	0.77	0.856
2,3',4,5'-TeCB	68			18.1	3.64	0.72	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			25.8	3.59	0.72	0.822
2,3',5',6'-TeCB	73		U		0.0558		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			67.9	3.91	0.74	1.000
3,3',4,5'-TeCB	78		U		4.31		
3,3',4,5'-TeCB	79			19.1	3.42	0.73	0.969
3,3',5,5'-TeCB	80		U		3.75		
3,4,4',5'-TeCB	81		U		4.11		
2,2',3,3',4'-PeCB	82			139	1.36	1.55	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	1260	1.27	1.58	0.885
2,2',3,3',6'-PeCB	84		B	282	1.34	1.56	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	553	1.05	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	1310	1.07	1.57	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	283	1.18	1.58	1.154
2,2',3,4,6'-PeCB	89			7.19	1.26	1.62	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	2900	1.05	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	595	1.26	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	1470	1.13	1.59	1.121
2,2',3,5,6'-PeCB	94			7.19	1.26	1.69	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			3.08	0.102	1.48	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			31.5	1.06	1.58	1.093
2,2',4,6,6'-PeCB	104		K	0.415	0.109	1.13	1.001
2,3,3',4,4'-PeCB	105		B	1040	4.41	1.52	1.000
2,3,3',4,5-PeCB	106		U		4.40		
2,3,3',4',5-PeCB	107	107 + 124	C	80.8	4.71	1.56	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			332	4.87	1.51	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	2340	0.930	1.58	0.925
2,3,3',5,5'-PeCB	111			7.40	0.928	1.37	0.945
2,3,3',5,6-PeCB	112		U		0.892		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			49.4	4.98	1.58	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	2600	4.02	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			33.7	0.862	1.53	0.958
2,3',4,5',6-PeCB	121			2.31	0.935	1.77	1.198
2',3,3',4,5-PeCB	122			15.6	5.17	1.57	1.010
2',3,4,4',5-PeCB	123			45.7	5.24	1.55	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			9.04	5.84	1.56	1.000
3,3',4,5,5'-PeCB	127			6.89	5.00	1.49	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	949	3.98	1.27	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	7530	3.87	1.26	0.929
2,2',3,3',4,5'-HxCB	130			359	4.93	1.28	0.914
2,2',3,3',4,6-HxCB	131			30.7	4.52	1.36	1.161
2,2',3,3',4,6'-HxCB	132		B	835	4.76	1.26	1.176
2,2',3,3',5,5'-HxCB	133			134	4.37	1.30	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	179	4.53	1.30	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1430	0.0956	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	274	0.0726	1.27	1.026
2,2',3,4,4',5-HxCB	137			199	4.82	1.28	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	89.2	4.15	1.28	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			447	4.27	1.28	0.904
2,2',3,4,5,6-HxCB	142		U		4.68		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			142	0.0962	1.26	1.123
2,2',3,4,6,6'-HxCB	145			0.897	0.0764	1.15	1.035
2,2',3,4',5,5'-HxCB	146		B	1410	3.98	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	3050	3.95	1.27	1.134
2,2',3,4',5,6'-HxCB	148			18.6	0.101	1.22	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			8.58	0.0734	1.19	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.708	0.0683	1.18	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	7940	3.37	1.27	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			18.7	0.0596	1.26	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	500	4.43	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			453	3.04	1.25	0.938
2,3,3',4,5,5'-HxCB	159			27.7	3.30	1.26	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		3.30		
2,3,3',4',5,5'-HxCB	162			25.7	3.32	1.28	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			254	3.26	1.27	0.922
2,3,3',5,5',6-HxCB	165			9.24	3.61	1.29	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			239	3.05	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		6.46		
2,2',3,3',4,4',5-HpCB	170		B	862	0.116	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	286	0.126	1.06	1.164
2,2',3,3',4,5,5'-HpCB	172			165	0.127	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			485	0.109	1.06	1.134
2,2',3,3',4,5',6-HpCB	175			59.6	0.115	1.05	1.103
2,2',3,3',4,6,6'-HpCB	176			93.9	0.0850	1.04	1.034
2,2',3,3',4',5,6-HpCB	177		B	648	0.113	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			432	0.118	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			347	0.0822	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	2430	0.0941	1.05	0.910
2,2',3,4,4',5,6-HpCB	181		K	8.12	0.122	1.26	1.156
2,2',3,4,4',5,6'-HpCB	182			13.2	0.113	1.01	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	912	0.116	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			14.6	0.0846	1.12	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.0949		
2,2',3,4',5,5',6-HpCB	187		B	3020	0.110	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			11.9	0.0805	1.06	1.000
2,3,3',4,4',5,5'-HpCB	189			35.9	0.297	0.96	1.000
2,3,3',4,4',5,6-HpCB	190			154	0.0938	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			34.4	0.0834	1.07	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.107		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			425	0.233	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			126	0.255	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			257	0.121	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	61.9	0.0900	0.92	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	705	0.125	0.91	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			113	0.0899	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			357	0.107	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			376	0.119	0.91	0.920
2,2',3,4,4',5,6,6'-OxCB	204			1.01	0.0918	0.89	1.038
2,3,3',4,4',5,5',6-OxCB	205			17.6	0.200	0.86	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	334	0.195	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	58.5	0.137	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			187	0.115	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	188	0.127	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_WG30036-103_Form1A_PB9C_330S4_SJ1077647.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females (Duplicate)
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 29-Oct-2009 Time: 23:22:13

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: WG30036-103 (DUP L13452-6)

Sample Size: 1.97 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 4
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 80.7
% Lipid: 1.18

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	2.17	0.258	3.02	1.001
3-MoCB	2			1.27	0.313	2.76	0.987
4-MoCB	3		B	1.74	0.329	3.53	1.000
2,2'-DiCB	4			21.6	1.19	1.52	1.001
2,3-DiCB	5		U		0.867		
2,3'-DiCB	6			12.8	0.764	1.44	1.174
2,4-DiCB	7		K	1.97	0.788	2.00	1.155
2,4'-DiCB	8		B	47.5	0.696	1.55	1.207
2,5-DiCB	9		K	3.13	0.770	1.81	1.143
2,6-DiCB	10		K	1.28	0.727	2.68	1.013
3,3'-DiCB	11		B	36.8	0.880	1.46	0.969
3,4-DiCB	12	12 + 13	C K	2.11	0.880	4.36	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.837		
4,4'-DiCB	15			5.96	0.935	1.69	0.999
2,2',3-TriCB	16		B	54.4	0.503	1.00	1.165
2,2',4-TriCB	17		B	89.8	0.432	1.04	1.137
2,2',5-TriCB	18	18 + 30	C B	271	0.360	1.06	1.113
2,2',6-TriCB	19			30.5	0.471	1.07	1.001
2,3,3'-TriCB	20	20 + 28	C B	1500	0.480	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	229	0.433	1.01	0.857
2,3,4'-TriCB	22		B	291	0.523	1.01	0.872
2,3,5-TriCB	23		K	0.590	0.464	0.85	1.280
2,3,6-TriCB	24			5.17	0.312	1.03	1.158
2,3',4-TriCB	25			100	0.386	0.99	0.824
2,3',5-TriCB	26	26 + 29	C	237	0.459	1.00	1.299
2,3',6-TriCB	27			40.6	0.301	1.04	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	703	0.431	1.00	0.835
2,4',6-TriCB	32		B	139	0.420	1.00	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			3.95	0.467	1.05	1.272
3,3',4-TriCB	35		U		0.601		
3,3',5-TriCB	36		U		0.495		
3,4,4'-TriCB	37		B	77.0	0.539	1.01	1.001
3,4,5-TriCB	38			7.33	0.491	1.06	0.966



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			10.9	0.500	0.99	0.944
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	996	0.388	0.78	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			776	0.392	0.80	1.310
2,2',3,5'-TeCB	43			107	0.418	0.75	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	3560	0.345	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	260	0.359	0.79	1.146
2,2',3,6'-TeCB	46			52.3	0.407	0.80	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	234	0.385	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	2050	0.324	0.79	1.258
2,2',4,6'-TeCB	50	50 + 53	C B	289	0.348	0.77	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	5020	0.360	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			1.73	0.254	0.78	1.001
2,3,3',4'-TeCB	55		U		21.2		
2,3,3',4'-TeCB	56		B	1010	21.5	0.74	0.905
2,3,3',5'-TeCB	57			31.5	19.4	0.76	0.843
2,3,3',5'-TeCB	58			21.3	19.6	0.74	0.852
2,3,3',6'-TeCB	59	59 + 62 + 75	C	373	0.287	0.80	1.300
2,3,4,4'-TeCB	60		B	1120	22.0	0.75	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	5390	19.4	0.77	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			304	19.5	0.77	0.864
2,3,4',6'-TeCB	64		B	1370	0.279	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	4660	19.8	0.77	0.884
2,3',4,5'-TeCB	67			93.5	17.2	0.77	0.856
2,3',4,5'-TeCB	68			93.5	18.9	0.72	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			134	18.6	0.72	0.822
2,3',5',6'-TeCB	73		U		0.289		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			352	20.2	0.74	1.000
3,3',4,5'-TeCB	78		U		22.3		
3,3',4,5'-TeCB	79			99.0	17.7	0.73	0.969
3,3',5,5'-TeCB	80		U		19.4		
3,4,4',5'-TeCB	81		U		21.3		
2,2',3,3',4'-PeCB	82			721	7.03	1.55	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	6540	6.60	1.58	0.885
2,2',3,3',6'-PeCB	84		B	1460	6.96	1.56	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	2870	5.44	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	6780	5.54	1.57	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	1470	6.11	1.58	1.154
2,2',3,4,6'-PeCB	89			37.2	6.54	1.62	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	15000	5.44	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	3080	6.54	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	7640	5.85	1.59	1.121
2,2',3,5,6'-PeCB	94			37.2	6.54	1.69	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			15.9	0.528	1.48	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			163	5.49	1.58	1.093
2,2',4,6,6'-PeCB	104		K	2.15	0.564	1.13	1.001
2,3,3',4,4'-PeCB	105		B	5390	22.8	1.52	1.000
2,3,3',4,5-PeCB	106		U		22.8		
2,3,3',4',5-PeCB	107	107 + 124	C	418	24.4	1.56	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			1720	25.2	1.51	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	12100	4.81	1.58	0.925
2,3,3',5,5'-PeCB	111			38.3	4.81	1.37	0.945
2,3,3',5,6-PeCB	112		U		4.62		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			256	25.8	1.58	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	13400	20.8	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			175	4.47	1.53	0.958
2,3',4,5',6-PeCB	121			12.0	4.84	1.77	1.198
2',3,3',4,5-PeCB	122			80.6	26.8	1.57	1.010
2',3,4,4',5-PeCB	123			236	27.1	1.55	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			46.8	30.2	1.56	1.000
3,3',4,5,5'-PeCB	127			35.7	25.9	1.49	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	4910	20.6	1.27	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	39000	20.0	1.26	0.929
2,2',3,3',4,5'-HxCB	130			1860	25.5	1.28	0.914
2,2',3,3',4,6-HxCB	131			159	23.4	1.36	1.161
2,2',3,3',4,6'-HxCB	132		B	4330	24.6	1.26	1.176
2,2',3,3',5,5'-HxCB	133			696	22.6	1.30	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	929	23.5	1.30	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	7390	0.495	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	1420	0.376	1.27	1.026
2,2',3,4,4',5-HxCB	137			1030	25.0	1.28	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	462	21.5	1.28	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			2320	22.1	1.28	0.904
2,2',3,4,5,6-HxCB	142		U		24.3		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			733	0.498	1.26	1.123
2,2',3,4,6,6'-HxCB	145			4.64	0.396	1.15	1.035
2,2',3,4',5,5'-HxCB	146		B	7330	20.6	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	15800	20.5	1.27	1.134
2,2',3,4',5,6'-HxCB	148			96.5	0.523	1.22	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			44.4	0.380	1.19	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			3.67	0.354	1.18	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	41100	17.5	1.27	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			97.1	0.308	1.26	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	2590	22.9	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			2350	15.8	1.25	0.938
2,3,3',4,5,5'-HxCB	159			144	17.1	1.26	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		17.1		
2,3,3',4',5,5'-HxCB	162			133	17.2	1.28	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			1310	16.9	1.27	0.922
2,3,3',5,5',6-HxCB	165			47.8	18.7	1.29	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			1240	15.8	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		33.5		
2,2',3,3',4,4',5-HpCB	170		B	4470	0.601	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	1480	0.654	1.06	1.164
2,2',3,3',4,5,5'-HpCB	172			855	0.660	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			2510	0.564	1.06	1.134
2,2',3,3',4,5',6-HpCB	175			308	0.596	1.05	1.103
2,2',3,3',4,6,6'-HpCB	176			486	0.440	1.04	1.034
2,2',3,3',4',5,6-HpCB	177		B	3350	0.585	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			2240	0.611	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			1800	0.426	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	12600	0.487	1.05	0.910
2,2',3,4,4',5,6-HpCB	181		K	42.0	0.629	1.26	1.156
2,2',3,4,4',5,6'-HpCB	182			68.4	0.585	1.01	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	4720	0.601	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			75.7	0.438	1.12	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.491		
2,2',3,4',5,5',6-HpCB	187		B	15600	0.569	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			61.7	0.417	1.06	1.000
2,3,3',4,4',5,5'-HpCB	189			186	1.54	0.96	1.000
2,3,3',4,4',5,6-HpCB	190			800	0.486	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			178	0.432	1.07	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.554		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			2200	1.20	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			654	1.32	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			1330	0.629	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	321	0.466	0.92	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	3650	0.648	0.91	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			585	0.465	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			1850	0.554	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			1950	0.617	0.91	0.920
2,2',3,4,4',5,6,6'-OxCB	204			5.23	0.475	0.89	1.038
2,3,3',4,4',5,5',6-OxCB	205			91.0	1.04	0.86	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	1730	1.01	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	303	0.709	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			971	0.596	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	971	0.660	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_WG30036-103_Form1A_PB9C_330S4_SJ1077647_Dry.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females (Duplicate)
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 04-Sep-2009

Analysis Date: 29-Oct-2009 Time: 23:22:13

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: WG30036-103 (DUP L13452-6)

Sample Size: 0.120 g (lipid)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_330 S: 4
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1

% Moisture: 80.7
% Lipid: 1.18

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	35.5	4.22	3.02	1.001
3-MoCB	2			20.8	5.13	2.76	0.987
4-MoCB	3		B	28.5	5.39	3.53	1.000
2,2'-DiCB	4			353	19.5	1.52	1.001
2,3-DiCB	5		U		14.2		
2,3'-DiCB	6			209	12.5	1.44	1.174
2,4-DiCB	7		K	32.3	12.9	2.00	1.155
2,4'-DiCB	8		B	777	11.4	1.55	1.207
2,5-DiCB	9		K	51.2	12.6	1.81	1.143
2,6-DiCB	10		K	21.0	11.9	2.68	1.013
3,3'-DiCB	11		B	602	14.4	1.46	0.969
3,4-DiCB	12	12 + 13	C K	34.5	14.4	4.36	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		13.7		
4,4'-DiCB	15			97.5	15.3	1.69	0.999
2,2',3-TriCB	16		B	890	8.24	1.00	1.165
2,2',4-TriCB	17		B	1470	7.07	1.04	1.137
2,2',5-TriCB	18	18 + 30	C B	4430	5.90	1.06	1.113
2,2',6-TriCB	19			499	7.71	1.07	1.001
2,3,3'-TriCB	20	20 + 28	C B	24600	7.85	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	3750	7.09	1.01	0.857
2,3,4'-TriCB	22		B	4770	8.56	1.01	0.872
2,3,5-TriCB	23		K	9.66	7.60	0.85	1.280
2,3,6-TriCB	24			84.6	5.11	1.03	1.158
2,3',4-TriCB	25			1640	6.32	0.99	0.824
2,3',5-TriCB	26	26 + 29	C	3880	7.52	1.00	1.299
2,3',6-TriCB	27			665	4.92	1.04	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	11500	7.06	1.00	0.835
2,4',6-TriCB	32		B	2270	6.87	1.00	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			64.6	7.64	1.05	1.272
3,3',4-TriCB	35		U		9.83		
3,3',5-TriCB	36		U		8.11		
3,4,4'-TriCB	37		B	1260	8.82	1.01	1.001
3,4,5-TriCB	38			120	8.04	1.06	0.966



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			178	8.18	0.99	0.944
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	16300	6.35	0.78	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			12700	6.41	0.80	1.310
2,2',3,5'-TeCB	43			1750	6.85	0.75	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	58300	5.65	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C B	4260	5.87	0.79	1.146
2,2',3,6'-TeCB	46			856	6.66	0.80	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	3830	6.31	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	33600	5.30	0.79	1.258
2,2',4,6'-TeCB	50	50 + 53	C B	4730	5.69	0.77	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	82100	5.90	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			28.3	4.16	0.78	1.001
2,3,3',4'-TeCB	55		U		347		
2,3,3',4'-TeCB	56		B	16500	352	0.74	0.905
2,3,3',5'-TeCB	57			515	318	0.76	0.843
2,3,3',5'-TeCB	58			348	321	0.74	0.852
2,3,3',6'-TeCB	59	59 + 62 + 75	C	6100	4.69	0.80	1.300
2,3,4,4'-TeCB	60		B	18300	360	0.75	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	88200	317	0.77	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			4980	320	0.77	0.864
2,3,4',6'-TeCB	64		B	22400	4.56	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	76300	324	0.77	0.884
2,3',4,5'-TeCB	67			1530	281	0.77	0.856
2,3',4,5'-TeCB	68			1530	309	0.72	0.831
2,3',4,6'-TeCB	69	49 + 69	C49				
2,3',4',5'-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6'-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			2190	304	0.72	0.822
2,3',5',6'-TeCB	73		U		4.73		
2,4,4',5'-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6'-TeCB	75	59 + 62 + 75	C59				
2',3,4,5'-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77			5760	331	0.74	1.000
3,3',4,5'-TeCB	78		U		365		
3,3',4,5'-TeCB	79			1620	290	0.73	0.969
3,3',5,5'-TeCB	80		U		318		
3,4,4',5'-TeCB	81		U		348		
2,2',3,3',4'-PeCB	82			11800	115	1.55	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	107000	108	1.58	0.885
2,2',3,3',6'-PeCB	84		B	23900	114	1.56	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	46900	89.0	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	111000	90.7	1.57	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	24000	100	1.58	1.154
2,2',3,4,6'-PeCB	89			609	107	1.62	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	246000	89.0	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	50400	107	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	125000	95.8	1.59	1.121
2,2',3,5,6'-PeCB	94			609	107	1.69	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			261	8.65	1.48	1.017
2,2',3',4,5'-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6'-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5'-PeCB	99	83 + 99	C83				
2,2',4,4',6'-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			2670	89.8	1.58	1.093
2,2',4,6,6'-PeCB	104		K	35.2	9.24	1.13	1.001
2,3,3',4,4'-PeCB	105		B	88200	374	1.52	1.000
2,3,3',4,5-PeCB	106		U		373		
2,3,3',4',5-PeCB	107	107 + 124	C	6850	399	1.56	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			28100	413	1.51	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	198000	78.8	1.58	0.925
2,3,3',5,5'-PeCB	111			627	78.7	1.37	0.945
2,3,3',5,6-PeCB	112		U		75.6		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			4190	422	1.58	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	220000	341	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			2860	73.1	1.53	0.958
2,3',4,5',6-PeCB	121			196	79.3	1.77	1.198
2',3,3',4,5-PeCB	122			1320	438	1.57	1.010
2',3,4,4',5-PeCB	123			3870	444	1.55	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			766	495	1.56	1.000
3,3',4,5,5'-PeCB	127			584	424	1.49	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	80400	337	1.27	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	638000	328	1.26	0.929
2,2',3,3',4,5'-HxCB	130			30400	418	1.28	0.914
2,2',3,3',4,6-HxCB	131			2600	383	1.36	1.161
2,2',3,3',4,6'-HxCB	132		B	70800	403	1.26	1.176
2,2',3,3',5,5'-HxCB	133			11400	370	1.30	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	15200	384	1.30	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	121000	8.10	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	23200	6.15	1.27	1.026
2,2',3,4,4',5-HxCB	137			16900	409	1.28	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	7560	352	1.28	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			37900	362	1.28	0.904
2,2',3,4,5,6-HxCB	142		U		397		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			12000	8.15	1.26	1.123
2,2',3,4,6,6'-HxCB	145			76.0	6.48	1.15	1.035
2,2',3,4',5,5'-HxCB	146		B	120000	337	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	259000	335	1.27	1.134
2,2',3,4',5,6'-HxCB	148			1580	8.56	1.22	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			727	6.22	1.19	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			60.0	5.79	1.18	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	673000	286	1.27	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			1590	5.05	1.26	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	42400	375	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			38400	258	1.25	0.938
2,3,3',4,5,5'-HxCB	159			2350	280	1.26	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		280		
2,3,3',4',5,5'-HxCB	162			2180	281	1.28	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			21500	276	1.27	0.922
2,3,3',5,5',6-HxCB	165			783	306	1.29	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			20300	259	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		548		
2,2',3,3',4,4',5-HpCB	170		B	73100	9.83	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	24200	10.7	1.06	1.164
2,2',3,3',4,5,5'-HpCB	172			14000	10.8	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			41100	9.24	1.06	1.134
2,2',3,3',4,5',6'-HpCB	175			5050	9.75	1.05	1.103
2,2',3,3',4,6',6'-HpCB	176			7960	7.20	1.04	1.034
2,2',3,3',4',5,6-HpCB	177		B	54900	9.58	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			36600	10.0	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			29400	6.97	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	206000	7.98	1.05	0.910
2,2',3,4,4',5,6-HpCB	181		K	688	10.3	1.26	1.156
2,2',3,4,4',5,6'-HpCB	182			1120	9.58	1.01	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	77300	9.83	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			1240	7.17	1.12	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		8.04		
2,2',3,4',5,5',6-HpCB	187		B	256000	9.32	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			1010	6.82	1.06	1.000
2,3,3',4,4',5,5'-HpCB	189			3040	25.2	0.96	1.000
2,3,3',4,4',5,6-HpCB	190			13100	7.95	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			2920	7.07	1.07	0.917
2,3,3',4,5,5',6-HpCB	192		U		9.07		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			36000	19.7	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			10700	21.6	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			21800	10.3	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	5250	7.63	0.92	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	59800	10.6	0.91	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			9580	7.62	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			30300	9.07	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			31900	10.1	0.91	0.920
2,2',3,4,4',5,6,6'-OxCB	204			85.6	7.78	0.89	1.038
2,3,3',4,4',5,5',6-OxCB	205			1490	17.0	0.86	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	28300	16.5	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	4960	11.6	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			15900	9.75	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		B	15900	10.8	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 23-Dec-2009 10:06:49; Application: XMLTransformer-1.10.13; Report Filename: 1668_PCB1668_PCBTF_WG30036-103_Form1A_PB9C_330S4_SJ1077647_Lipid.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Females (Duplicate)
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 04-Sep-2009
Analysis Date: 29-Oct-2009 Time: 23:22:13
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: WG30036-103 (DUP L13452-6)
Sample Size: 10.2 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_330 S: 4
Blank Data Filename: PB9C_312 S: 5
Cal. Ver. Data Filename: PB9C_330 S: 1
% Moisture: 80.7
% Lipid: 1.18

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	683	34.2	3.26	0.721
13C12-4-MoCB	3L			2000	789	39.5	3.22	0.860
13C12-2,2'-DiCB	4L			2000	863	43.2	1.61	0.875
13C12-4,4'-DiCB	15L			2000	943	47.1	1.58	1.254
13C12-2,2',6-TriCB	19L			2000	1000	50.1	1.07	1.072
13C12-3,4,4'-TriCB	37L			2000	1190	59.3	1.04	1.093
13C12-2,2',6,6'-TeCB	54L			2000	1300	65.1	0.80	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1320	65.9	0.80	1.397
13C12-3,4,4',5-TeCB	81L			2000	1300	64.9	0.80	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1300	65.1	1.61	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1300	64.8	1.55	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1140	57.2	1.61	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1380	69.0	1.58	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1170	58.4	1.55	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1210	60.5	1.56	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1160	58.2	1.29	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2250	56.3	1.30	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1190	59.5	1.31	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1200	59.8	1.29	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1760	88.0	1.08	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1720	86.0	1.08	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1570	78.5	1.07	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1440	72.0	1.04	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1590	79.6	0.92	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1620	80.8	0.95	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2280	114	0.82	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1720	86.2	0.81	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1520	75.8	1.21	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1280	64.1	1.02	0.924
13C12-2,3,3',5,5'-PeCB	111L			2000	1570	78.4	1.61	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1330	66.6	1.07	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Brian Watson _____ QA/QC Chemist



PCB CONGENER ANALYSIS REPORT
RELATIVE PERCENT DIFFERENCE

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Project No.

SOC RBS SPRING FYKE NET 2009

Contract No.: 4574

Client ID: Parker River- 10 Females

Concentration Units: pg/g (wet weight basis)

COMPOUND	IUPAC NO.	L13452-6 (A)		WG30036-103		MEAN	RELATIVE PERCENT DIFFERENCE
		LAB FLAG ¹	CONC. FOUND	LAB FLAG ¹	CONC. FOUND		
2-MoCB	1		1.16		0.419	0.790	93.9
3-MoCB	2		0.264		0.245	0.255	7.47
4-MoCB	3		0.364		0.336	0.350	8.00
2,2'-DiCB	4		7.50		4.16	5.83	57.3
2,3-DiCB	5	U		U			
2,3'-DiCB	6		2.83		2.47	2.65	13.3
2,4-DiCB	7	K	0.442	K	0.381		
2,4'-DiCB	8		11.0		9.17	10.1	18.4
2,5-DiCB	9		0.711	K	0.604		
2,6-DiCB	10		0.324	K	0.248		
3,3'-DiCB	11		7.04		7.10	7.07	0.934
3,4-DiCB	12	C K	0.518	C K	0.407		
3,4'-DiCB	13	C12		C12			
3,5-DiCB	14	U		U			
4,4'-DiCB	15		2.24		1.15	1.70	63.9
2,2',3-TriCB	16		11.5		10.5	11.0	8.38
2,2',4-TriCB	17		18.1		17.3	17.7	4.65
2,2',5-TriCB	18	C	55.9	C	52.3	54.1	6.62
2,2',6-TriCB	19		5.81		5.89	5.85	1.42
2,3,3'-TriCB	20	C	287	C	290	289	1.15
2,3,4-TriCB	21	C	43.2	C	44.2	43.7	2.36
2,3,4'-TriCB	22		54.3		56.3	55.3	3.64
2,3,5-TriCB	23	K	0.096	K	0.114		
2,3,6-TriCB	24		0.897		0.998	0.948	10.7
2,3',4-TriCB	25		20.0		19.4	19.7	3.06
2,3',5-TriCB	26	C	45.7	C	45.8	45.7	0.319
2,3',6-TriCB	27		7.84		7.85	7.85	0.153
2,4,4'-TriCB	28	C20		C20			
2,4,5-TriCB	29	C26		C26			
2,4,6-TriCB	30	C18		C18			
2,4',5-TriCB	31		138		136	137	1.53
2,4',6-TriCB	32		26.3		26.8	26.6	1.93
2',3,4-TriCB	33	C21		C21			
2',3,5-TriCB	34		0.756		0.762	0.759	0.791
3,3',4-TriCB	35	U		U			
3,3',5-TriCB	36	U		U			
3,4,4'-TriCB	37		15.7		14.9	15.3	5.56
3,4,5-TriCB	38		1.34		1.42	1.38	5.37
3,4',5-TriCB	39		1.82		2.10	1.96	14.6
2,2',3,3'-TeCB	40	C	185	C	192	189	3.78
2,2',3,4'-TeCB	41	C40		C40			
2,2',3,4'-TeCB	42		147		150	148	1.76
2,2',3,5'-TeCB	43		19.8		20.7	20.2	4.57
2,2',3,5'-TeCB	44	C	686	C	688	687	0.332
2,2',3,6'-TeCB	45	C	51.8	C	50.3	51.1	2.92
2,2',3,6'-TeCB	46		10.1		10.1	10.1	0.674
2,2',4,4'-TeCB	47	C44		C44			
2,2',4,5'-TeCB	48		45.4		45.2	45.3	0.364
2,2',4,5'-TeCB	49	C	402	C	396	399	1.47
2,2',4,6'-TeCB	50	C	62.5	C	55.8	59.2	11.3
2,2',4,6'-TeCB	51	C45		C45			
2,2',5,5'-TeCB	52		1000		968	984	3.31
2,2',5,6'-TeCB	53	C50		C50			
2,2',6,6'-TeCB	54		0.416		0.334	0.375	21.9
2,3,3',4'-TeCB	55	U		U			
2,3,3',4'-TeCB	56		191		195	193	2.19
2,3,3',5'-TeCB	57		6.25		6.07	6.16	2.87
2,3,3',5'-TeCB	58		4.58		4.10	4.34	11.1
2,3,3',6'-TeCB	59	C	72.7	C	72.0	72.4	1.00
2,3,4,4'-TeCB	60		213		216	214	1.40



COMPOUND	IUPAC NO.	L13452-6 (A)		WG30036-103		MEAN	RELATIVE PERCENT DIFFERENCE
		LAB FLAG ¹	CONC. FOUND	LAB FLAG ¹	CONC. FOUND		
2,3,4,5-TeCB	61	C	1010	C	1040	1030	2.60
2,3,4,6-TeCB	62	C59		C59			
2,3,4',5-TeCB	63		61.1		58.8	59.9	3.84
2,3,4',6-TeCB	64		265		264	265	0.425
2,3,5,6-TeCB	65	C44		C44			
2,3',4,4'-TeCB	66		863		900	882	4.18
2,3',4,5-TeCB	67		18.8		18.1	18.5	3.58
2,3',4,5'-TeCB	68		20.7		18.1	19.4	13.3
2,3',4,6-TeCB	69	C49		C49			
2,3',4',5-TeCB	70	C61		C61			
2,3',4',6-TeCB	71	C40		C40			
2,3',5,5'-TeCB	72		27.1		25.8	26.5	5.11
2,3',5',6-TeCB	73	U		U			
2,4,4',5-TeCB	74	C61		C61			
2,4,4',6-TeCB	75	C59		C59			
2',3,4,5-TeCB	76	C61		C61			
3,3',4,4'-TeCB	77		69.2		67.9	68.5	2.01
3,3',4,5-TeCB	78	U		U			
3,3',4,5'-TeCB	79		19.1		19.1	19.1	0.131
3,3',5,5'-TeCB	80	U		U			
3,4,4',5-TeCB	81		2.21	U			
2,2',3,3',4-PeCB	82		133		139	136	4.06
2,2',3,3',5-PeCB	83	C	1250	C	1260	1260	0.759
2,2',3,3',6-PeCB	84		277		282	279	1.75
2,2',3,4,4'-PeCB	85	C	550	C	553	552	0.577
2,2',3,4,5-PeCB	86	C	1260	C	1310	1290	3.63
2,2',3,4,5'-PeCB	87	C86		C86			
2,2',3,4,6-PeCB	88	C	283	C	283	283	0.031
2,2',3,4,6'-PeCB	89		6.97		7.19	7.08	3.13
2,2',3,4',5-PeCB	90	C	2850	C	2900	2880	1.70
2,2',3,4',6-PeCB	91	C88		C88			
2,2',3,5,5'-PeCB	92		618		595	606	3.72
2,2',3,5,6-PeCB	93	C	1530	C	1470	1500	3.61
2,2',3,5,6'-PeCB	94		8.06		7.19	7.63	11.3
2,2',3,5',6-PeCB	95	C93		C93			
2,2',3,6,6'-PeCB	96		3.02		3.08	3.05	1.97
2,2',3',4,5-PeCB	97	C86		C86			
2,2',3',4,6-PeCB	98	C93		C93			
2,2',4,4',5-PeCB	99	C83		C83			
2,2',4,4',6-PeCB	100	C93		C93			
2,2',4,5,5'-PeCB	101	C90		C90			
2,2',4,5,6'-PeCB	102	C93		C93			
2,2',4,5',6-PeCB	103		32.8		31.5	32.2	4.17
2,2',4,6,6'-PeCB	104		0.381	K	0.415		
2,3,3',4,4'-PeCB	105		1020		1040	1030	1.71
2,3,3',4,5-PeCB	106	U		U			
2,3,3',4',5-PeCB	107	C	77.5	C	80.8	79.2	4.07
2,3,3',4,5'-PeCB	108	C86		C86			
2,3,3',4,6-PeCB	109		310		332	321	6.74
2,3,3',4',6-PeCB	110	C	2280	C	2340	2310	2.57
2,3,3',5,5'-PeCB	111		6.95		7.40	7.17	6.34
2,3,3',5,6-PeCB	112	U		U			
2,3,3',5',6-PeCB	113	C90		C90			
2,3,4,4',5-PeCB	114		49.1		49.4	49.3	0.577
2,3,4,4',6-PeCB	115	C110		C110			
2,3,4,5,6-PeCB	116	C85		C85			
2,3,4',5,6-PeCB	117	C85		C85			
2,3',4,4',5-PeCB	118		2470		2600	2530	5.12
2,3',4,4',6-PeCB	119	C86		C86			
2,3',4,5,5'-PeCB	120		33.1		33.7	33.4	1.94
2,3',4,5',6-PeCB	121		2.41		2.31	2.36	4.36
2',3,3',4,5-PeCB	122		13.9		15.6	14.7	11.8
2',3,4,4',5-PeCB	123		47.3		45.7	46.5	3.40
2',3,4,5,5'-PeCB	124	C107		C107			
2',3,4,5,6'-PeCB	125	C86		C86			
3,3',4,4',5-PeCB	126		12.1		9.04	10.5	28.6
3,3',4,5,5'-PeCB	127		6.22		6.89	6.56	10.2
2,2',3,3',4,4'-HxCB	128	C	886	C	949	918	6.86
2,2',3,3',4,5-HxCB	129	C	6210	C	7530	6870	19.2



COMPOUND	IUPAC NO.	L13452-6 (A)		WG30036-103		MEAN	RELATIVE PERCENT DIFFERENCE
		LAB FLAG ¹	CONC. FOUND	LAB FLAG ¹	CONC. FOUND		
2,2',3,3',4,5'-HxCB	130		331		359	345	8.10
2,2',3,3',4,6'-HxCB	131		30.3		30.7	30.5	1.37
2,2',3,3',4,6'-HxCB	132		815		835	825	2.45
2,2',3,3',5,5'-HxCB	133		136		134	135	1.72
2,2',3,3',5,6'-HxCB	134	C	175	C	179	177	2.01
2,2',3,3',5,6'-HxCB	135	C	1420	C	1430	1430	0.073
2,2',3,3',6,6'-HxCB	136		275		274	274	0.579
2,2',3,4,4',5-HxCB	137		165		199	182	18.7
2,2',3,4,4',5'-HxCB	138	C129		C129			
2,2',3,4,4',6-HxCB	139	C	95.3	C	89.2	92.3	6.51
2,2',3,4,4',6'-HxCB	140	C139		C139			
2,2',3,4,5,5'-HxCB	141		427		447	437	4.55
2,2',3,4,5,6-HxCB	142	U		U			
2,2',3,4,5,6'-HxCB	143	C134		C134			
2,2',3,4,5',6-HxCB	144		142		142	142	0.284
2,2',3,4,6,6'-HxCB	145	K	0.696		0.897		
2,2',3,4',5,5'-HxCB	146		1360		1410	1380	3.19
2,2',3,4',5,6-HxCB	147	C	3050	C	3050	3050	0.083
2,2',3,4',5,6'-HxCB	148		18.7		18.6	18.7	0.622
2,2',3,4',5',6-HxCB	149	C147		C147			
2,2',3,4',6,6'-HxCB	150		9.06		8.58	8.82	5.50
2,2',3,5,5',6-HxCB	151	C135		C135			
2,2',3,5,6,6'-HxCB	152		0.833		0.708	0.771	16.2
2,2',4,4',5,5'-HxCB	153	C	7880	C	7940	7910	0.754
2,2',4,4',5,6'-HxCB	154	C135		C135			
2,2',4,4',6,6'-HxCB	155		18.2		18.7	18.4	3.18
2,3,3',4,4',5-HxCB	156	C	491	C	500	496	1.66
2,3,3',4,4',5'-HxCB	157	C156		C156			
2,3,3',4,4',6-HxCB	158		403		453	428	11.8
2,3,3',4,5,5'-HxCB	159		27.7		27.7	27.7	0.032
2,3,3',4,5,6-HxCB	160	C129		C129			
2,3,3',4,5',6-HxCB	161	U		U			
2,3,3',4',5,5'-HxCB	162		23.4		25.7	24.5	9.33
2,3,3',4',5,6-HxCB	163	C129		C129			
2,3,3',4',5',6-HxCB	164		189		254	221	29.4
2,3,3',5,5',6-HxCB	165		8.53		9.24	8.89	7.95
2,3,4,4',5,6-HxCB	166	C128		C128			
2,3',4,4',5,5'-HxCB	167		240		239	239	0.160
2,3',4,4',5',6-HxCB	168	C153		C153			
3,3',4,4',5,5'-HxCB	169	U		U			
2,2',3,3',4,4',5-HpCB	170		684		862	773	23.0
2,2',3,3',4,4',6-HpCB	171	C	266	C	286	276	7.34
2,2',3,3',4,5,5'-HpCB	172		153		165	159	7.21
2,2',3,3',4,5,6-HpCB	173	C171		C171			
2,2',3,3',4,5,6'-HpCB	174		468		485	476	3.70
2,2',3,3',4,5',6-HpCB	175		54.7		59.6	57.2	8.42
2,2',3,3',4,6,6'-HpCB	176		85.8		93.9	89.9	9.01
2,2',3,3',4',5,6-HpCB	177		615		648	632	5.34
2,2',3,3',5,5',6-HpCB	178		380		432	406	12.9
2,2',3,3',5,6,6'-HpCB	179		336		347	341	3.05
2,2',3,4,4',5,5'-HpCB	180	C	2280	C	2430	2350	6.36
2,2',3,4,4',5,6-HpCB	181		7.76	K	8.12		
2,2',3,4,4',5,6'-HpCB	182		13.2		13.2	13.2	0.394
2,2',3,4,4',5',6-HpCB	183	C	848	C	912	880	7.24
2,2',3,4,4',6,6'-HpCB	184		13.9		14.6	14.2	4.81
2,2',3,4,5,5',6-HpCB	185	C183		C183			
2,2',3,4,5,6,6'-HpCB	186	U		U			
2,2',3,4',5,5',6-HpCB	187		2860		3020	2940	5.32
2,2',3,4',5,6,6'-HpCB	188		11.7		11.9	11.8	1.87
2,3,3',4,4',5,5'-HpCB	189		35.3		35.9	35.6	1.78
2,3,3',4,4',5,6-HpCB	190		151		154	152	2.59
2,3,3',4,4',5',6-HpCB	191		33.5		34.4	34.0	2.81
2,3,3',4,5,5',6-HpCB	192	U		U			
2,3,3',4',5,5',6-HpCB	193	C180		C180			
2,2',3,3',4,4',5,5'-OxCB	194		391		425	408	8.17
2,2',3,3',4,4',5,6-OxCB	195		152		126	139	18.2
2,2',3,3',4,4',5,6'-OxCB	196		305		257	281	16.9
2,2',3,3',4,4',6,6'-OxCB	197	C	69.1	C	61.9	65.5	11.1
2,2',3,3',4,5,5',6-OxCB	198	C	793	C	705	749	11.8



COMPOUND	IUPAC NO.	L13452-6 (A)		WG30036-103		MEAN	RELATIVE PERCENT DIFFERENCE
		LAB FLAG ¹	CONC. FOUND	LAB FLAG ¹	CONC. FOUND		
2,2',3,3',4,5,5',6'-O ₂ CB	199	C198		C198			
2,2',3,3',4,5,6,6'-O ₂ CB	200	C197		C197			
2,2',3,3',4,5',6'-O ₂ CB	201		131		113	122	14.8
2,2',3,3',5,5',6'-O ₂ CB	202		348		357	353	2.57
2,2',3,4,4',5,5',6'-O ₂ CB	203		480		376	428	24.1
2,2',3,4,4',5,6,6'-O ₂ CB	204	K	1.21		1.01		
2,3,3',4,4',5,5',6'-O ₂ CB	205		15.7		17.6	16.6	11.5
2,2',3,3',4,4',5,5',6'-NoCB	206	T	285	T	334	310	16.0
2,2',3,3',4,4',5,6,6'-NoCB	207	T	51.8	T	58.5	55.2	12.2
2,2',3,3',4,5,5',6,6'-NoCB	208		178		187	182	5.31
2,2',3,3',4,4',5,5',6,6'-DeCB	209		187		188	187	0.491

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Brian Watson _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: RPD.xsl; Created: 23-Dec-2009 10:13:49; Application: XMLTransformer-1.10.13; Report Filename: RPD_PCB1668_RPD_WG30036-103_L13452-6_.html; Workgroup: WG30036; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.

