SDMS Document
125662

RECORD OF COMMUNICATION

REGIONAL SAMPLE CONTROL CENTER

ROC #4

TDF# HWSS

DATE: 12/4/2008
SUBJECT: CLP Data Package for Quality Assurance Review
FROM: Hazardous Waste Support Section (HWSS)/RSCC
TO: HWSS ESAT-TOPO

Attached is the following ORGANIC Data Package to be reviewed for Quality Assurance

SITE: Cornell Dubilier Electronic **CASE #: 37858**

SDG#: B53X4 **SAMPLER: W-RST**

		#SAMPLES	MATRIX
PROJ. CODE: RS	**SITE SPILL #: GZ**		
LAB: AXYS	**OPERABLE UNIT: 00**	12	Soil
TURN-AROUND-TIME: 21 day			

CERCLIS ID # : NYD986965333 **FRACTION: PCBs Congeners**

Contaminant(s) of Concern (If known)

REGION II RSCC DATA TRANSFER LOG

Relinquished By		Received By	
Signature	**Date/Time**	**Signature**	**Date/Time**
[illegible]	12/5/08 3:30 pm	[illegible]	12/5/08
[illegible]	1/9/09 3:25	[illegible]	1/9/09 3:15 pm

ATTACHMENT 1
PCB CONGENERS
SOP NO. HW-46

PCB CONGENER DATA ASSESSMENT

CASE No.: 37858
SDG#: B53X4
LABORATORY: AXYS Analytical Services

DATA ASSESSMENT

The current SOP HW-46 (Revision 1) September 2008, USEPA Region II Data Validation SOP for evaluating organic data has been applied.

All data are valid and acceptable except those analytes rejected "R"(unusable). Due to the detection of QC problems, some analytes may have the "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect) or "JN"(presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Russell Arnone Date: January /07/2009

SDG#: B53X4

1. The "Q" qualifier identifies a target congener that was detected, but did not satisfy all method defined quantification criteria.

   B53X4: PCB-81, PCB-128

   B53X5: PCB-81

   B53Y2: PCB-81

   B5408: PCB-81

   B5408 Dup: PCB-81

   B5421: PCB-81, PCB-32, PCB-120

   B5431: PCB-81

   B5432: PCB-81, PCB-120, PCB-126

   Lab Blank WG26856-101: PCB-66

   Lab Blank WG27021-101: PCB-3, PCB-22, PCB-105, PCB-146, PCB-147, PCB-180/193

2. Sample B5447 extract was diluted due to elevated concentration levels, therefore target concentration of labeled surrogates are not recovered. Reported target concentrations should be considered minimum values. Percent surrogate recovery values are not reported. All results are estimated "J".

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B53X4
Sample Collection:
23-Sep-2008 07:40

Form 1A
PCB CONGENER ANALYSIS REPORT

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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-1 R
Matrix:	SOLID	Sample Size:	3.52 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	04-Nov-2008 Time: 09:46:37	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_430 S: 3
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_430 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	24.3

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1			4950	602	2.95	1.000
3-MoCB	2		U		602		
4-MoCB	3			2900	602	3.20	1.001
2,2'-DiCB	4			25300	602	1.49	1.000
2,3-DiCB	5		U		602		
2,3'-DiCB	6			10500	602	1.51	1.176
2,4-DiCB	7			1030	602	1.55	1.159
2,4'-DiCB	8			19000	602	1.53	1.209
2,5-DiCB	9			1270	602	1.49	1.147
2,6-DiCB	10			1020	602	1.53	1.013
3,3'-DiCB	11			1340	602	1.51	0.969
3,4-DiCB	12	12 + 13	C	14600	1200	1.54	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		602		
4,4'-DiCB	15			100000	602	1.54	1.001
2,2',3-TriCB	16			25600	602	1.04	1.166
2,2',4-TriCB	17			49000	602	1.05	1.139
2,2',5-TriCB	18	18 + 30	C	67600	1200	1.05	1.114
2,2',6-TriCB	19			23700	602	1.06	1.001
2,3,3'-TriCB	20	20 + 28	C	372000	1200	1.01	0.848
2,3,4-TriCB	21	21 + 33	C	29300	1200	1.01	0.857
2,3,4'-TriCB	22			73300	602	1.02	0.872
2,3,5-TriCB	23		U		602		
2,3,6-TriCB	24			1850	602	0.98	1.159
2,3',4-TriCB	25			51500	602	1.01	0.825
2,3',5-TriCB	26	26 + 29	C	113000	1200	1.02	1.303
2,3',6-TriCB	27			26400	602	1.05	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			253000	602	1.01	0.837
2,4',6-TriCB	32			48700	602	0.99	1.198
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			1450	602	0.99	1.275
3,3',4-TriCB	35			3150	602	0.97	0.985
3,3',5-TriCB	36		U		602		
3,4,4'-TriCB	37			150000	602	1.02	1.001
3,4,5-TriCB	38		U		602		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			2130	602	0.97	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C	340000	1810	0.78	1.338
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			180000	602	0.78	1.313
2,2',3,5-TeCB	43			20500	602	0.67	1.248
2,2',3,5'-TeCB	44	44 + 47 + 65	C	1390000	1810	0.78	1.286
2,2',3,6-TeCB	45	45 + 51	C	75800	1200	0.80	1.148
2,2',3,6'-TeCB	46			18600	602	0.77	1.162
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			60700	602	0.80	1.275
2,2',4,5'-TeCB	49	49 + 69	C	1310000	1200	0.78	1.260
2,2',4,6-TeCB	50	50 + 53	C	106000	1200	0.78	1.112
2,2',4,6'-TeCB	51	45 + 51	C45	3910000 *			
2,2',5,5'-TeCB	52						
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			3670	602	0.79	1.001
2,3,3',4-TeCB	55			31100	602	0.84	0.888
2,3,3',4'-TeCB	56			409000	602	0.77	0.905
2,3,3',5-TeCB	57			13700	602	0.72	0.844
2,3,3',5'-TeCB	58			12700	602	0.81	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C	85400	1810	0.78	1.304
2,3,4,4'-TeCB	60			165000	602	0.77	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C	3610000 *			
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			49800	602	0.77	0.864
2,3,4',6-TeCB	64			543000	602	0.78	1.349
2,3,5,6-TeCB	65	44 + 47 + 65	C44	2050000 *			
2,3',4,4'-TeCB	66						
2,3',4,5-TeCB	67			31200	602	0.76	0.857
2,3',4,5'-TeCB	68			35300	602	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			44200	602	0.76	0.823
2,3',5',6-TeCB	73		U		602		
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			99000	602	0.77	1.000
3,3',4,5-TeCB	78		U		602		
3,3',4,5'-TeCB	79			67400	602	0.69	0.970
3,3',5,5'-TeCB	80		U		602		
3,4,4',5-TeCB	81		Q ~~EMPC~~	11100	602	0.68	1.000
2,2',3,3',4-PeCB	82			531000	768	1.57	0.934
2,2',3,3',5-PeCB	83	83 + 99	C	5240000 *			
2,2',3,3',6-PeCB	84			1110000	755	1.57	1.163
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	1260000	1810	1.57	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	5250000 *			
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C	852000	1200	1.58	1.155
2,2',3,4,6'-PeCB	89			21700	722	1.56	1.182
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	8340000 *			
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92			1210000	691	1.57	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	5500000			
2,2',3,5,6'-PeCB	94			26700	737	1.56	1.102
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			15100	602	1.57	1.015
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				

* Transfer from dilution

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			33800	606	1.59	1.093
2,2',4,6,6'-PeCB	104			678	602	1.59	1.001
2,3,3',4,4'-PeCB	105		~~E~~	3250000 *			
2,3,3',4,5-PeCB	106		U		602		
2,3,3',4',5-PeCB	107	107 + 124	C	292000	1200	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			454000	602 *	1.51	0.997
2,3,3',4',6-PeCB	110	110 + 115	C~~E~~	1.02 E+07			
2,3,3',5,5'-PeCB	111		U		602		
2,3,3',5,6-PeCB	112		U		602		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			163000	602	1.55	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~~	7820000 *			
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			9840	602	1.54	0.959
2,3',4,5',6-PeCB	121		U		602		
2',3,3',4,5-PeCB	122			78900	602	1.56	1.010
2',3,4,4',5-PeCB	123			159000	602	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		Q ~~EMPC~~	13400	602	1.58	1.000
3,3',4,5,5'-PeCB	127		U		602		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	1560000	1200 *	1.25	0.958
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C~~E~~	1.05 E+07			
2,2',3,3',4,5'-HxCB	130			473000	897	1.25	0.913
2,2',3,3',4,6-HxCB	131			91900	847	1.29	1.158
2,2',3,3',4,6'-HxCB	132			2550000	884	1.25	1.173
2,2',3,3',5,5'-HxCB	133			74800	830	1.25	1.191
2,2',3,3',5,6-HxCB	134	134 + 143	C	341000	1200	1.25	1.139
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	1290000	1810	1.27	1.103
2,2',3,3',6,6'-HxCB	136			579000	602	1.27	1.023
2,2',3,4,4',5-HxCB	137			525000	890	1.24	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	150000	1200	1.26	1.152
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			904000	773	1.25	0.903
2,2',3,4,5,6-HxCB	142		U		871		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			168000	602	1.26	1.121
2,2',3,4,6,6'-HxCB	145			2320	602	1.29	1.033
2,2',3,4',5,5'-HxCB	146			825000	779	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C~~E~~	5770000 *			
2,2',3,4',5,6'-HxCB	148			4190	602	1.29	1.083
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			6250	602	1.26	1.012
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			6090	602 *	1.28	1.006
2,2',4,4',5,5'-HxCB	153	153 + 168	C~~E~~	6570000			
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		602		
2,3,3',4,4',5-HxCB	156	156 + 157	C	1180000	1200	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			768000	602	1.25	0.938
2,3,3',4,5,5'-HxCB	159			14100	629	1.28	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		602		
2,3,3',4',5,5'-HxCB	162			27600	634	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			464000	602	1.24	0.921
2,3,3',5,5',6-HxCB	165		U		676		
2,3,4,4',5,6-HxCB	166	128 + 166	C128				

* Transfer from dilution

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			352000	610	1.26	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		813		
2,2',3,3',4,4',5-HpCB	170			593000	602	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	164000	1200	1.03	1.162
2,2',3,3',4,5,5'-HpCB	172			72700	602	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			349000	602	1.04	1.133
2,2',3,3',4,5',6-HpCB	175			13200	602	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			39900	602	1.05	1.034
2,2',3,3',4',5,6-HpCB	177			217000	602	1.03	1.145
2,2',3,3',5,5',6-HpCB	178			55200	602	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			105000	602	1.03	1.009
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	777000	1200	1.03	0.910
2,2',3,4,4',5,6-HpCB	181			16900	602	1.01	1.156
2,2',3,4,4',5,6'-HpCB	182			3940	602	1.08	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	225000	1200	1.03	1.126
2,2',3,4,4',6,6'-HpCB	184		U		602		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		602		
2,2',3,4',5,5',6-HpCB	187			323000	602	1.03	1.110
2,2',3,4',5,6,6'-HpCB	188		U		602		
2,3,3',4,4',5,5'-HpCB	189			28300	602	1.02	1.000
2,3,3',4,4',5,6-HpCB	190			100000	602	1.03	0.947
2,3,3',4,4',5',6-HpCB	191			18200	602	1.04	0.918
2,3,3',4,5,5',6-HpCB	192		U		602		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194			61400	602	0.90	0.991
2,2',3,3',4,4',5,6-OcCB	195			26400	602	0.90	0.945
2,2',3,3',4,4',5,6'-OcCB	196			28400	602	0.89	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	9990	1200	0.89	1.047
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C	65500	1200	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			6320	602	0.90	1.023
2,2',3,3',5,5',6,6'-OcCB	202			12200	602	0.90	1.001
2,2',3,4,4',5,5',6-OcCB	203			44000	602	0.89	0.920
2,2',3,4,4',5,6,6'-OcCB	204		U		602		
2,3,3',4,4',5,5',6-OcCB	205			3580	602	0.93	1.001
2,2',3,3',4,4',5,5',6-NoCB	206			24200	602	0.78	1.001
2,2',3,3',4,4',5,6,6'-NoCB	207			2840	602	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			6730	602	0.79	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			8460	602	0.67	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; EMPC = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener; E = exceeds calibrated linear range, see dilution data.

Approved by: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 26-Nov-2008 12:13:07; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_PCBTF_L11788-1_Form1A_PB8C_430S3_SJ925831.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B53X4
Sample Collection:
23-Sep-2008 07:40

Form 1A
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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-1 R
Matrix:	SOLID	Sample Size:	3.52 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	04-Nov-2008 Time: 09:46:37	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename(s):	PB8C_430 S: 3, PB8C_437 S: 9
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_430 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	24.3

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		7850
Total Dichloro Biphenyls		174000
Total Trichloro Biphenyls		1290000
Total Tetrachloro Biphenyls		1.47E+07
Total Pentachloro Biphenyls		5.18E+07
Total Hexachloro Biphenyls		3.52E+07
Total Heptachloro Biphenyls		3100000
Total Octachloro Biphenyls		258000
Total Nonachloro Biphenyls		33800
Decachloro Biphenyl		8460
TOTAL PCBs		1.07E+08

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: .xsl; Created: 26-Nov-2008 12:14:50; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-1_Form1AHT_SJ925831.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B53X4

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

Sample Collection:	23-Sep-2008 07:40	**Contract No.:**	4125
Case & TO No.	08-006 EP08W002469	**Matrix:**	SOLID
Lab Sample I.D.:	L11788-1 R	**Sample Size:**	3.52 g (dry)
GC Column ID(s):	SPB OCTYL	**Concentration Units:**	ng/kg (dry weight basis)
Sample Data Filename(s):	**PB8C_430 S: 3** **PB8C_437 S: 9**		

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			99000	602	0.0001	9.90e+00	9.90e+00	
3,4,4',5-TeCB	81		U		602	0.0003	0.00e+00	9.03e-02	
2,3,3',4,4'-PeCB	105			3250000	6320	0.00003	9.75e+01	9.75e+01	
2,3,4,4',5-PeCB	114			163000	602	0.00003	4.89e+00	4.89e+00	
2,3',4,4',5-PeCB	118			7820000	6320	0.00003	2.35e+02	2.35e+02	
2',3,4,4',5-PeCB	123			159000	602	0.00003	4.77e+00	4.77e+00	
3,3',4,4',5-PeCB	126		U		602	0.1	0.00e+00	3.01e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	1180000	1200	0.00003	3.54e+01	3.54e+01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			352000	610	0.00003	1.06e+01	1.06e+01	
3,3',4,4',5,5'-HxCB	169		U		813	0.03	0.00e+00	1.22e+01	
2,3,3',4,4',5,5'-HpCB	189			28300	602	0.00003	8.49e-01	8.49e-01	
					TOTAL TEQ		398	441	

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 26-Nov-2008 12:32:40; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-1_TEQ_SJ925831.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
B53X5
Sample Collection:
23-Sep-2008 08:22

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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-2 R
Matrix:	SOLID	Sample Size:	3.50 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	03-Nov-2008 Time: 22:55:09	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_429 S: 4
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_429 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	13.5

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1			62.4	57.1	2.92	1.001
3-MoCB	2		U		57.1		
4-MoCB	3		U		57.1		
2,2'-DiCB	4			2930	57.1	1.47	1.001
2,3-DiCB	5		U		57.1		
2,3'-DiCB	6			220	57.1	1.52	1.177
2,4-DiCB	7		U		57.1		
2,4'-DiCB	8			460	57.1	1.49	1.210
2,5-DiCB	9		U		57.1		
2,6-DiCB	10			139	57.1	1.53	1.014
3,3'-DiCB	11			135	57.1	1.76	0.969
3,4-DiCB	12	12 + 13	C	329	114	1.55	0.985
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		57.1		
4,4'-DiCB	15			7800	57.1	1.51	1.001
2,2',3-TriCB	16			3180	57.1	1.04	1.166
2,2',4-TriCB	17			3560	57.1	1.04	1.139
2,2',5-TriCB	18	18 + 30	C	6850	114	1.05	1.115
2,2',6-TriCB	19			3800	57.1	1.05	1.001
2,3,3'-TriCB	20	20 + 28	C	34500	114	1.01	0.848
2,3,4-TriCB	21	21 + 33	C	2670	114	1.00	0.856
2,3,4'-TriCB	22			7210	57.1	1.00	0.872
2,3,5-TriCB	23		U		57.1		
2,3,6-TriCB	24			196	57.1	1.06	1.159
2,3',4-TriCB	25			5690	57.1	1.00	0.825
2,3',5-TriCB	26	26 + 29	C	16700	114	1.01	1.302
2,3',6-TriCB	27			2680	57.1	1.05	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			14900	57.1	1.00	0.836
2,4',6-TriCB	32			9120	57.1	0.99	1.198
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		57.1		
3,3',4-TriCB	35			599	57.1	1.04	0.986
3,3',5-TriCB	36		U		57.1		
3,4,4'-TriCB	37			13100	57.1	1.00	1.001
3,4,5-TriCB	38		U		57.1		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG[1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			159	57.1	1.06	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C	31500	171	0.78	1.338
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			17100	57.1	0.78	1.313
2,2',3,5-TeCB	43			1830	57.1	0.78	1.248
2,2',3,5'-TeCB	44	44 + 47 + 65	C	85000	171	0.78	1.286
2,2',3,6-TeCB	45	45 + 51	C	9400	114	0.79	1.148
2,2',3,6'-TeCB	46			3090	57.1	0.77	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			5330	57.1	0.78	1.275
2,2',4,5'-TeCB	49	49 + 69	C	54900	114	0.78	1.261
2,2',4,6-TeCB	50	50 + 53	C	9090	114	0.78	1.111
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		~~E~~	145000 *			
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			199	57.1	0.80	1.002
2,3,3',4-TeCB	55			1750	58.5	0.74	0.889
2,3,3',4'-TeCB	56			29700	57.4	0.76	0.904
2,3,3',5-TeCB	57			558	57.1	0.73	0.844
2,3,3',5'-TeCB	58			556	57.1	0.74	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C	5130	171	0.78	1.303
2,3,4,4'-TeCB	60			10900	57.1	0.75	0.910
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C~~E~~	140000 *			
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			1980	57.1	0.76	0.864
2,3,4',6-TeCB	64			27500	57.1	0.79	1.350
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			71900	57.1	0.76	0.884
2,3',4,5-TeCB	67			2550	57.1	0.75	0.857
2,3',4,5'-TeCB	68			753	57.1	0.75	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			938	57.1	0.77	0.823
2,3',5',6-TeCB	73		U		57.1		
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			8180	57.1	0.76	1.000
3,3',4,5-TeCB	78		U		57.7		
3,3',4,5'-TeCB	79			2200	57.1	0.71	0.970
3,3',5,5'-TeCB	80		U		57.1		
3,4,4',5-TeCB	81		Q ~~EMPC~~	450	57.9	0.75	1.000
2,2',3,3',4-PeCB	82			27500	57.1	1.57	0.933
2,2',3,3',5-PeCB	83	83 + 99	C	134000	114	1.57	0.886
2,2',3,3',6-PeCB	84			55700	57.1	1.57	1.162
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	40100 *	171	1.56	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C~~E~~	170000			
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C	27200	114	1.57	1.154
2,2',3,4,6'-PeCB	89			1550 *	57.1	1.55	1.181
2,2',3,4',5-PeCB	90	90 + 101 + 113	C~~E~~	223000			
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92			37400 *	57.1	1.57	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C~~E~~	163000			
2,2',3,5,6'-PeCB	94			895	57.1	1.57	1.102
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			899	57.1	1.56	1.015
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				

* Transfer from dilution

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			902	57.1	1.55	1.093
2,2',4,6,6'-PeCB	104		U		57.1		
2,3,3',4,4'-PeCB	105			100000	57.1	1.53	1.001
2,3,3',4,5-PeCB	106		U		57.1		
2,3,3',4',5-PeCB	107	107 + 124	C	9270	114	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			15500	57.1	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C ~~E~~ 301 000 X				
2,3,3',5,5'-PeCB	111		U		57.1		
2,3,3',5,6-PeCB	112		U		57.1		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			4650	57.1	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		~~5~~ 265000 X				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			138	57.1	1.39	0.958
2,3',4,5',6-PeCB	121		U		57.1		
2',3,3',4,5-PeCB	122			2980	57.1	1.53	1.010
2',3,4,4',5-PeCB	123			4060	57.1	1.52	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			1120	57.1	1.70	1.000
3,3',4,5,5'-PeCB	127		U		57.1		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	47900	114	1.24	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C ~~E~~ 270 000 X				
2,2',3,3',4,5'-HxCB	130			15700	57.1	1.24	0.913
2,2',3,3',4,6-HxCB	131			3650	57.1	1.22	1.159
2,2',3,3',4,6'-HxCB	132			87200	57.1	1.25	1.174
2,2',3,3',5,5'-HxCB	133			2300	57.1	1.24	1.191
2,2',3,3',5,6-HxCB	134	134 + 143	C	12100	114	1.25	1.140
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	44800	171	1.25	1.103
2,2',3,3',6,6'-HxCB	136			20100	57.1	1.24	1.023
2,2',3,4,4',5-HxCB	137			17300	57.1	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	4790	114	1.21	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			33400	57.1	1.25	0.903
2,2',3,4,5,6-HxCB	142		U		57.1		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			7440	57.1	1.24	1.121
2,2',3,4,6,6'-HxCB	145			89.5	57.1	1.39	1.033
2,2',3,4',5,5'-HxCB	146			24400	57.1	1.25	0.885
2,2',3,4',5,6-HxCB	147	147 + 149	C	137000	114	1.25	1.133
2,2',3,4',5,6'-HxCB	148			110	57.1	1.20	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			175	57.1	1.19	1.012
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			196	57.1	1.25	1.006
2,2',4,4',5,5'-HxCB	153	153 + 168	C	157000	114	1.25	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		57.1		
2,3,3',4,4',5-HxCB	156	156 + 157	C	33900	114	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			26700	57.1	1.24	0.938
2,3,3',4,5,5'-HxCB	159			587	57.1	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		57.1		
2,3,3',4',5,5'-HxCB	162			818	57.1	1.21	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			14100	57.1	1.24	0.921
2,3,3',5,5',6-HxCB	165		U		57.1		
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			10700	57.1	1.25	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		57.1		
2,2',3,3',4,4',5-HpCB	170			18500	57.1	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	5840	114	1.03	1.162
2,2',3,3',4,5,5'-HpCB	172			2450	57.1	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			13000	57.1	1.02	1.132
2,2',3,3',4,5',6-HpCB	175			578	57.1	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			1660	57.1	1.04	1.034
2,2',3,3',4',5,6-HpCB	177			7580	57.1	1.04	1.145
2,2',3,3',5,5',6-HpCB	178			1900	57.1	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179			4020	57.1	1.03	1.010
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	28000	114	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			434	57.1	0.99	1.156
2,2',3,4,4',5,6'-HpCB	182			111	57.1	1.05	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	9150	114	1.06	1.127
2,2',3,4,4',6,6'-HpCB	184		U		57.1		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		57.1		
2,2',3,4',5,5',6-HpCB	187			11700	57.1	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		U		57.1		
2,3,3',4,4',5,5'-HpCB	189			987	57.1	1.03	1.000
2,3,3',4,4',5,6-HpCB	190			3160	57.1	1.05	0.947
2,3,3',4,4',5',6-HpCB	191			668	57.1	1.07	0.918
2,3,3',4,5,5',6-HpCB	192		U		57.1		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194			3240	57.1	0.88	0.991
2,2',3,3',4,4',5,6-OcCB	195			1410	57.1	0.91	0.945
2,2',3,3',4,4',5,6'-OcCB	196			1670	57.1	0.91	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	525	114	0.89	1.047
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C	3050	114	0.87	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			360	57.1	0.89	1.023
2,2',3,3',5,5',6,6'-OcCB	202			521	57.1	0.91	1.000
2,2',3,4,4',5,5',6-OcCB	203			2080	57.1	0.88	0.920
2,2',3,4,4',5,6,6'-OcCB	204		U		57.1		
2,3,3',4,4',5,5',6-OcCB	205			179	57.1	0.83	1.000
2,2',3,3',4,4',5,5',6-NoCB	206			936	57.1	0.77	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			117	57.1	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			221	57.1	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			156	57.1	0.73	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; EMPC = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener; E = exceeds calibrated linear range, see dilution data.

Approved by: Jason MacKenzie QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 26-Nov-2008 12:13:07; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_PCBTF_L11788-2_Form1A_PB8C_429S4_SJ925584.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B53X5
Sample Collection:
23-Sep-2008 08:22

Form 1A
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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-2 R
Matrix:	SOLID	Sample Size:	3.50 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	03-Nov-2008 Time: 22:55:09	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename(s):	PB8C_429 S: 4, PB8C_434 S: 7
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_429 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	13.5

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		62.4
Total Dichloro Biphenyls		12000
Total Trichloro Biphenyls		125000
Total Tetrachloro Biphenyls		667000
Total Pentachloro Biphenyls		1590000
Total Hexachloro Biphenyls		972000
Total Heptachloro Biphenyls		110000
Total Octachloro Biphenyls		13000
Total Nonachloro Biphenyls		1270
Decachloro Biphenyl		156
TOTAL PCBs		3490000

(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: Jason MacKenzie QA/QC Chemist

For Axys Internal Use Only [XSL Template: .xsl; Created: 26-Nov-2008 12:14:50; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-2_Form1AHT_SJ925584.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B53X5

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.:	4125	**Sample Collection:**	23-Sep-2008 08:22
		Case & TO No.	08-006 EP08W002469
Matrix:	SOLID	**Lab Sample I.D.:**	L11788-2 R
Sample Size:	3.50 g (dry)	**GC Column ID(s):**	SPB OCTYL
Concentration Units:	ng/kg (dry weight basis)	**Sample Data Filename(s):**	**PB8C_429 S: 4** **PB8C_434 S: 7**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			8180	57.1	0.0001	8.18e-01	8.18e-01	
3,4,4',5-TeCB	81		U		57.9	0.0003	0.00e+00	8.69e-03	
2,3,3',4,4'-PeCB	105			100000	57.1	0.00003	3.00e+00	3.00e+00	
2,3,4,4',5-PeCB	114			4650	57.1	0.00003	1.40e-01	1.40e-01	
2,3',4,4',5-PeCB	118			265000	8.56	0.00003	7.95e+00	7.95e+00	
2',3,4,4',5-PeCB	123			4060	57.1	0.00003	1.22e-01	1.22e-01	
3,3',4,4',5-PeCB	126			1120	57.1	0.1	1.12e+02	1.12e+02	
2,3,3',4,4',5-HxCB	156	156 + 157	C	33900	114	0.00003	1.02e+00	1.02e+00	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			10700	57.1	0.00003	3.21e-01	3.21e-01	
3,3',4,4',5,5'-HxCB	169		U		57.1	0.03	0.00e+00	8.57e-01	
2,3,3',4,4',5,5'-HpCB	189			987	57.1	0.00003	2.96e-02	2.96e-02	
					TOTAL TEQ		125	126	

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 26-Nov-2008 12:32:40; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-2_TEQ_SJ925584.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
B53Y2
Sample Collection:
23-Sep-2008 10:00

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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-3 R
Matrix:	SOLID	Sample Size:	3.40 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	04-Nov-2008 Time: 02:08:15	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_429 S: 7
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_429 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	17.8

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		U		616		
3-MoCB	2		U		616		
4-MoCB	3		U		616		
2,2'-DiCB	4		U		616		
2,3-DiCB	5		U		616		
2,3'-DiCB	6		U		616		
2,4-DiCB	7		U		616		
2,4'-DiCB	8			1070	616	1.43	1.209
2,5-DiCB	9		U		616		
2,6-DiCB	10		U		616		
3,3'-DiCB	11		U		616		
3,4-DiCB	12	12 + 13	C U		1230		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		616		
4,4'-DiCB	15			3850	616	1.52	1.001
2,2',3-TriCB	16			698	616	1.04	1.165
2,2',4-TriCB	17			826	616	0.94	1.138
2,2',5-TriCB	18	18 + 30	C	1610	1230	1.03	1.114
2,2',6-TriCB	19		U		616		
2,3,3'-TriCB	20	20 + 28	C	7900	1230	0.99	0.847
2,3,4-TriCB	21	21 + 33	C	2130	1230	1.05	0.856
2,3,4'-TriCB	22			3190	616	1.01	0.871
2,3,5-TriCB	23		U		616		
2,3,6-TriCB	24		U		616		
2,3',4-TriCB	25		U		616		
2,3',5-TriCB	26	26 + 29	C	1260	1230	1.03	1.302
2,3',6-TriCB	27		U		616		
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			9340	616	1.01	0.836
2,4',6-TriCB	32			694	616	0.97	1.198
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		616		
3,3',4-TriCB	35			1020	616	1.00	0.985
3,3',5-TriCB	36		U		616		
3,4,4'-TriCB	37			12400	616	1.01	1.001
3,4,5-TriCB	38		U		616		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		U		616		
2,2',3,3'-TeCB	40	40 + 41 + 71	C	9800	1850	0.78	1.337
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			6190	616	0.77	1.312
2,2',3,5-TeCB	43		U		616		
2,2',3,5'-TeCB	44	44 + 47 + 65	C	68800	1850	0.78	1.285
2,2',3,6-TeCB	45	45 + 51	C U		1230		
2,2',3,6'-TeCB	46		U		616		
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			2440	616	0.79	1.274
2,2',4,5'-TeCB	49	49 + 69	C	70300	1230	0.78	1.260
2,2',4,6-TeCB	50	50 + 53	C	1460	1230	0.77	1.111
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52			297000	616	0.78	1.235
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		616		
2,3,3',4-TeCB	55			3710	616	0.75	0.889
2,3,3',4'-TeCB	56			59200	616	0.76	0.905
2,3,3',5-TeCB	57		U		616		
2,3,3',5'-TeCB	58			1050	616	0.79	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C	1900	1850	0.78	1.302
2,3,4,4'-TeCB	60			23400	616	0.76	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C	720000	2460	0.77	0.875
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			4450	616	0.76	0.865
2,3,4',6-TeCB	64			37700	616	0.78	1.349
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			175000	616	0.77	0.884
2,3',4,5-TeCB	67			1070	616	0.77	0.857
2,3',4,5'-TeCB	68		U		616		
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			1060	616	0.72	0.823
2,3',5',6-TeCB	73		U		616		
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			54400	616	0.76	1.000
3,3',4,5-TeCB	78		U		616		
3,3',4,5'-TeCB	79			10100	616	0.69	0.970
3,3',5,5'-TeCB	80		U		616		
3,4,4',5-TeCB	81		~~EMPC~~	2930	616	0.83	1.000
2,2',3,3',4-PeCB	82			98300	616	1.58	0.934
2,2',3,3',5-PeCB	83	83 + 99	C	814000	1230	1.57	0.886
2,2',3,3',6-PeCB	84			96400	616	1.58	1.162
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	250000	1850	1.56	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	840000	3700	1.56	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	94600	1230	1.58	1.154
2,2',3,4,6'-PeCB	89			1420	616	1.56	1.181
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	1070000 *			
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92			197000	616	1.56	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	494000	3080	1.56	1.119
2,2',3,5,6'-PeCB	94			1000	616	1.56	1.102
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			621	616	1.58	1.015
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				

* Transfer from dilution

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			2160	616	1.51	1.093
2,2',4,6,6'-PeCB	104		U		616		
2,3,3',4,4'-PeCB	105		~~E~~ 859000 *				
2,3,3',4,5-PeCB	106		U		616		
2,3,3',4',5-PeCB	107	107 + 124	C	84600	1230	1.53	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			132000	616	1.52	0.997
2,3,3',4',6-PeCB	110	110 + 115	C~~E~~ 1520000 *				
2,3,3',5,5'-PeCB	111		U		616		
2,3,3',5,6-PeCB	112		U		616		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			40200	616	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~~ 2040000 *				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			952	616	1.55	0.958
2,3',4,5',6-PeCB	121		U		616		
2',3,3',4,5-PeCB	122			21900	616	1.56	1.010
2',3,4,4',5-PeCB	123			37000	616	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			12300	616	1.48	1.000
3,3',4,5,5'-PeCB	127		U		616		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	413000	1230	1.25	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C~~E~~ 2050000 *				
2,2',3,3',4,5'-HxCB	130			119000	616	1.24	0.913
2,2',3,3',4,6-HxCB	131			15100	616	1.23	1.159
2,2',3,3',4,6'-HxCB	132			469000	616	1.25	1.174
2,2',3,3',5,5'-HxCB	133			16700	616	1.23	1.191
2,2',3,3',5,6-HxCB	134	134 + 143	C	61000	1230	1.25	1.140
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	241000	1850	1.25	1.104
2,2',3,3',6,6'-HxCB	136			71100	616	1.24	1.023
2,2',3,4,4',5-HxCB	137			123000	616	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	26500	1230	1.23	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			194000	616	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		616		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			30900	616	1.25	1.121
2,2',3,4,6,6'-HxCB	145		U		616		
2,2',3,4',5,5'-HxCB	146			175000	616	1.25	0.885
2,2',3,4',5,6-HxCB	147	147 + 149	C	814000	1230	1.25	1.133
2,2',3,4',5,6'-HxCB	148			628	616	1.27	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			688	616	1.18	1.012
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		616		
2,2',4,4',5,5'-HxCB	153	153 + 168	C	1210000	1230	1.25	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		616		
2,3,3',4,4',5-HxCB	156	156 + 157	C	326000	1230	1.24	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			183000	616	1.25	0.938
2,3,3',4,5,5'-HxCB	159			3300	616	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		616		
2,3,3',4',5,5'-HxCB	162			7580	616	1.22	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			111000	616	1.24	0.921
2,3,3',5,5',6-HxCB	165		U		616		
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			104000	616	1.24	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		616		
2,2',3,3',4,4',5-HpCB	170			140000	616	1.03	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	34200	1230	1.04	1.162
2,2',3,3',4,5,5'-HpCB	172			16400	616	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			76900	616	1.03	1.132
2,2',3,3',4,5',6-HpCB	175			2350	616	1.03	1.102
2,2',3,3',4,6,6'-HpCB	176			5860	616	1.02	1.033
2,2',3,3',4',5,6-HpCB	177			48900	616	1.03	1.145
2,2',3,3',5,5',6-HpCB	178			11900	616	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179			18400	616	1.03	1.009
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	162000	1230	1.04	0.911
2,2',3,4,4',5,6-HpCB	181			3850	616	0.99	1.156
2,2',3,4,4',5,6'-HpCB	182			848	616	1.09	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	42800	1230	1.02	1.126
2,2',3,4,4',6,6'-HpCB	184		U		616		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		616		
2,2',3,4',5,5',6-HpCB	187			66500	616	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		U		616		
2,3,3',4,4',5,5'-HpCB	189			8520	616	1.02	1.000
2,3,3',4,4',5,6-HpCB	190			25700	616	1.03	0.947
2,3,3',4,4',5',6-HpCB	191			4070	616	1.01	0.918
2,3,3',4,5,5',6-HpCB	192		U		616		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194			13400	616	0.87	0.991
2,2',3,3',4,4',5,6-OcCB	195			5990	616	0.90	0.946
2,2',3,3',4,4',5,6'-OcCB	196			5490	616	0.91	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	2100	1230	0.88	1.046
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C	16100	1230	0.88	1.114
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			1160	616	0.89	1.023
2,2',3,3',5,5',6,6'-OcCB	202			3110	616	0.89	1.000
2,2',3,4,4',5,5',6-OcCB	203			10700	616	0.88	0.920
2,2',3,4,4',5,6,6'-OcCB	204		U		616		
2,3,3',4,4',5,5',6-OcCB	205			935	616	0.89	1.000
2,2',3,3',4,4',5,5',6-NoCB	206			8290	616	0.77	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			1160	616	0.75	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			2750	616	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			10800	616	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; EMPC = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener; E = exceeds calibrated linear range, see dilution data.

Approved by: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 26-Nov-2008 12:13:07; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_PCBTF_L11788-3_Form1A_PB8C_429S7_SJ925590.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B53Y2
Sample Collection:
23-Sep-2008 10:00

Form 1A
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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-3 R
Matrix:	SOLID	Sample Size:	3.40 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	04-Nov-2008 Time: 02:08:15	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename(s):	PB8C_429 S: 7, PB8C_437 S: 5
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_429 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	17.8

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls		4920
Total Trichloro Biphenyls		41100
Total Tetrachloro Biphenyls		1550000
Total Pentachloro Biphenyls		8710000
Total Hexachloro Biphenyls		6770000
Total Heptachloro Biphenyls		669000
Total Octachloro Biphenyls		59000
Total Nonachloro Biphenyls		12200
Decachloro Biphenyl		10800
TOTAL PCBs		1.78E+07

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: .xsl; Created: 26-Nov-2008 12:14:50; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-3_Form1AHT_SJ925590.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B53Y2

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

Sample Collection:	23-Sep-2008 10:00		
Contract No.:	4125	Case & TO No.	08-006 EP08W002469
Matrix:	SOLID	Lab Sample I.D.:	L11788-3 R
Sample Size:	3.40 g (dry)	GC Column ID(s):	SPB OCTYL
Concentration Units:	ng/kg (dry weight basis)	Sample Data Filename(s):	PB8C_429 S: 7 PB8C_437 S: 5

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			54400	616	0.0001	5.44e+00	5.44e+00	
3,4,4',5-TeCB	81		U		616	0.0003	0.00e+00	9.24e-02	
2,3,3',4,4'-PeCB	105			859000	6470	0.00003	2.58e+01	2.58e+01	
2,3,4,4',5-PeCB	114			40200	616	0.00003	1.21e+00	1.21e+00	
2,3',4,4',5-PeCB	118			2040000	6470	0.00003	6.12e+01	6.12e+01	
2',3,4,4',5-PeCB	123			37000	616	0.00003	1.11e+00	1.11e+00	
3,3',4,4',5-PeCB	126			12300	616	0.1	1.23e+03	1.23e+03	
2,3,3',4,4',5-HxCB	156	156 + 157	C	326000	1230	0.00003	9.78e+00	9.78e+00	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			104000	616	0.00003	3.12e+00	3.12e+00	
3,3',4,4',5,5'-HxCB	169		U		616	0.03	0.00e+00	9.24e+00	
2,3,3',4,4',5,5'-HpCB	189			8520	616	0.00003	2.56e-01	2.56e-01	
					TOTAL TEQ		1340	1350	

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 26-Nov-2008 12:32:40; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-3_TEQ_SJ925590.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5405
Sample Collection:
24-Sep-2008 11:28

Form 1A
PCB CONGENER ANALYSIS REPORT

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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-4 R
Matrix:	SOLID	Sample Size:	3.22 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	03-Nov-2008 Time: 17:27:28	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	**PB8C_428 S: 10**
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_428 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	8.15

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		U		62.2		
3-MoCB	2		U		62.2		
4-MoCB	3		U		62.2		
2,2'-DiCB	4		U		62.2		
2,3-DiCB	5		U		62.2		
2,3'-DiCB	6		U		62.2		
2,4-DiCB	7		U		62.2		
2,4'-DiCB	8		U		62.2		
2,5-DiCB	9		U		62.2		
2,6-DiCB	10		U		62.2		
3,3'-DiCB	11		U		62.2		
3,4-DiCB	12	12 + 13	C U		124		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		62.2		
4,4'-DiCB	15		U		62.2		
2,2',3-TriCB	16		U		62.2		
2,2',4-TriCB	17		U		62.2		
2,2',5-TriCB	18	18 + 30	C U		124		
2,2',6-TriCB	19		U		62.2		
2,3,3'-TriCB	20	20 + 28	C U		124		
2,3,4-TriCB	21	21 + 33	C U		124		
2,3,4'-TriCB	22		U		62.2		
2,3,5-TriCB	23		U		62.2		
2,3,6-TriCB	24		U		62.2		
2,3',4-TriCB	25		U		62.2		
2,3',5-TriCB	26	26 + 29	C U		124		
2,3',6-TriCB	27		U		62.2		
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		U		62.2		
2,4',6-TriCB	32		U		62.2		
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		62.2		
3,3',4-TriCB	35		U		62.2		
3,3',5-TriCB	36		U		62.2		
3,4,4'-TriCB	37		U		62.2		
3,4,5-TriCB	38		U		62.2		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		U		62.2		
2,2',3,3'-TeCB	40	40 + 41 + 71	C U		187		
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		U		62.2		
2,2',3,5-TeCB	43		U		62.2		
2,2',3,5'-TeCB	44	44 + 47 + 65	C U		187		
2,2',3,6-TeCB	45	45 + 51	C U		124		
2,2',3,6'-TeCB	46		U		62.2		
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48		U		62.2		
2,2',4,5'-TeCB	49	49 + 69	C U		124		
2,2',4,6-TeCB	50	50 + 53	C U		124		
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52			222	62.2	0.78	1.235
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		62.2		
2,3,3',4-TeCB	55		U		62.2		
2,3,3',4'-TeCB	56		U		62.2		
2,3,3',5-TeCB	57		U		62.2		
2,3,3',5'-TeCB	58		U		62.2		
2,3,3',6-TeCB	59	59 + 62 + 75	C U		187		
2,3,4,4'-TeCB	60		U		62.2		
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C U		249		
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63		U		62.2		
2,3,4',6-TeCB	64		U		62.2		
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		U		62.2		
2,3',4,5-TeCB	67		U		62.2		
2,3',4,5'-TeCB	68		U		62.2		
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		62.2		
2,3',5',6-TeCB	73		U		62.2		
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		62.2		
3,3',4,5-TeCB	78		U		62.2		
3,3',4,5'-TeCB	79		U		62.2		
3,3',5,5'-TeCB	80		U		62.2		
3,4,4',5-TeCB	81		U		62.2		
2,2',3,3',4-PeCB	82			95.1	62.2	1.57	0.934
2,2',3,3',5-PeCB	83	83 + 99	C	664	124	1.56	0.885
2,2',3,3',6-PeCB	84			136	62.2	1.57	1.163
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	211	187	1.54	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	636	373	1.59	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		124		
2,2',3,4,6'-PeCB	89		U		62.2		
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	859	187	1.58	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92			156	62.2	1.48	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	579	311	1.56	1.120
2,2',3,5,6'-PeCB	94		U		62.2		
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		62.2		
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		62.2		
2,2',4,6,6'-PeCB	104		U		62.2		
2,3,3',4,4'-PeCB	105			262	62.2	1.51	1.000
2,3,3',4,5-PeCB	106		U		62.2		
2,3,3',4',5-PeCB	107	107 + 124	C U		124		
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		U		62.2		
2,3,3',4',6-PeCB	110	110 + 115	C	1450	124	1.56	0.925
2,3,3',5,5'-PeCB	111		U		62.2		
2,3,3',5,6-PeCB	112		U		62.2		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		U		62.2		
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			708	62.2	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		U		62.2		
2,3',4,5',6-PeCB	121		U		62.2		
2',3,3',4,5-PeCB	122		U		62.2		
2',3,4,4',5-PeCB	123		U		62.2		
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		62.2		
3,3',4,5,5'-PeCB	127		U		62.2		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	322	124	1.21	0.958
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	1650	249	1.23	0.928
2,2',3,3',4,5'-HxCB	130			94.9	62.2	1.26	0.913
2,2',3,3',4,6-HxCB	131		U		62.2		
2,2',3,3',4,6'-HxCB	132			432	62.2	1.23	1.173
2,2',3,3',5,5'-HxCB	133		U		62.2		
2,2',3,3',5,6-HxCB	134	134 + 143	C U		124		
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	250	187	1.26	1.103
2,2',3,3',6,6'-HxCB	136			86.4	62.2	1.24	1.023
2,2',3,4,4',5-HxCB	137			122	62.2	1.21	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 U		124		
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			197	62.2	1.20	0.903
2,2',3,4,5,6-HxCB	142		U		62.2		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		U		62.2		
2,2',3,4,6,6'-HxCB	145		U		62.2		
2,2',3,4',5,5'-HxCB	146			163	62.2	1.24	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C	836	124	1.26	1.133
2,2',3,4',5,6'-HxCB	148		U		62.2		
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		U		62.2		
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		62.2		
2,2',4,4',5,5'-HxCB	153	153 + 168	C	977	124	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		62.2		
2,3,3',4,4',5-HxCB	156	156 + 157	C	161	124	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			141	62.2	1.22	0.938
2,3,3',4,5,5'-HxCB	159		U		62.2		
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		62.2		
2,3,3',4',5,5'-HxCB	162		U		62.2		
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			93.7	62.2	1.32	0.921
2,3,3',5,5',6-HxCB	165		U		62.2		
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			64.2	62.2	1.31	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		62.2		
2,2',3,3',4,4',5-HpCB	170			129	62.2	1.02	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C U		124		
2,2',3,3',4,5,5'-HpCB	172		U		62.2		
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			91.6	62.2	0.96	1.133
2,2',3,3',4,5',6-HpCB	175		U		62.2		
2,2',3,3',4,6,6'-HpCB	176		U		62.2		
2,2',3,3',4',5,6-HpCB	177		U		62.2		
2,2',3,3',5,5',6-HpCB	178		U		62.2		
2,2',3,3',5,6,6'-HpCB	179		U		62.2		
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	211	124	1.05	0.910
2,2',3,4,4',5,6-HpCB	181		U		62.2		
2,2',3,4,4',5,6'-HpCB	182		U		62.2		
2,2',3,4,4',5',6-HpCB	183	183 + 185	C U		124		
2,2',3,4,4',6,6'-HpCB	184		U		62.2		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		62.2		
2,2',3,4',5,5',6-HpCB	187			102	62.2	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		U		62.2		
2,3,3',4,4',5,5'-HpCB	189		U		62.2		
2,3,3',4,4',5,6-HpCB	190		U		62.2		
2,3,3',4,4',5',6-HpCB	191		U		62.2		
2,3,3',4,5,5',6-HpCB	192		U		62.2		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		U		62.2		
2,2',3,3',4,4',5,6-OcCB	195		U		62.2		
2,2',3,3',4,4',5,6'-OcCB	196		U		62.2		
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C U		124		
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C U		124		
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		U		62.2		
2,2',3,3',5,5',6,6'-OcCB	202		U		62.2		
2,2',3,4,4',5,5',6-OcCB	203		U		62.2		
2,2',3,4,4',5,6,6'-OcCB	204		U		62.2		
2,3,3',4,4',5,5',6-OcCB	205		U		62.2		
2,2',3,3',4,4',5,5',6-NoCB	206		U		62.2		
2,2',3,3',4,4',5,6,6'-NoCB	207		U		62.2		
2,2',3,3',4,5,5',6,6'-NoCB	208		U		62.2		
2,2',3,3',4,4',5,5',6,6'-DeCB	209		U		62.2		

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

Approved by: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 26-Nov-2008 12:13:07; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_PCBTF_L11788-4_Form1A_PB8C_428S10_SJ925013.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5405
Sample Collection:
24-Sep-2008 11:28

Form 1A
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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-4 R
Matrix:	SOLID	Sample Size:	3.22 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	03-Nov-2008 Time: 17:27:28	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_428 S: 10
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_428 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	8.15

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls	U	
Total Trichloro Biphenyls	U	
Total Tetrachloro Biphenyls		222
Total Pentachloro Biphenyls		5760
Total Hexachloro Biphenyls		5590
Total Heptachloro Biphenyls		534
Total Octachloro Biphenyls	U	
Total Nonachloro Biphenyls	U	
Decachloro Biphenyl	U	
TOTAL PCBs		12100

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: .xsl; Created: 26-Nov-2008 12:14:50; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-4_Form1AHT_SJ925013.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5405

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.:	4125	Sample Collection:	24-Sep-2008 11:28
		Case & TO No.	08-006 EP08W002469
Matrix:	SOLID	Lab Sample I.D.:	L11788-4 R
Sample Size:	3.22 g (dry)	GC Column ID(s):	SPB OCTYL
Concentration Units:	ng/kg (dry weight basis)	Sample Data Filename(s):	PB8C_428 S: 10

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77		U		62.2	0.0001	0.00e+00	3.11e-03	
3,4,4',5-TeCB	81		U		62.2	0.0003	0.00e+00	9.33e-03	
2,3,3',4,4'-PeCB	105			262	62.2	0.00003	7.86e-03	7.86e-03	
2,3,4,4',5-PeCB	114		U		62.2	0.00003	0.00e+00	9.33e-04	
2,3',4,4',5-PeCB	118			708	62.2	0.00003	2.12e-02	2.12e-02	
2',3,4,4',5-PeCB	123		U		62.2	0.00003	0.00e+00	9.33e-04	
3,3',4,4',5-PeCB	126		U		62.2	0.1	0.00e+00	3.11e+00	
2,3,3',4,4',5-HxCB	156	156 + 157	C	161	124	0.00003	4.83e-03	4.83e-03	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			64.2	62.2	0.00003	1.93e-03	1.93e-03	
3,3',4,4',5,5'-HxCB	169		U		62.2	0.03	0.00e+00	9.33e-01	
2,3,3',4,4',5,5'-HpCB	189		U		62.2	0.00003	0.00e+00	9.33e-04	
					TOTAL TEQ		0.0359	4.09	

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 26-Nov-2008 12:32:40; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-4_TEQ_SJ925013.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5408
Sample Collection:
24-Sep-2008 12:27

Form 1A
PCB CONGENER ANALYSIS REPORT

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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-5 R (A)
Matrix:	SOLID	Sample Size:	3.56 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	03-Nov-2008 Time: 23:59:33	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_429 S: 5
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_429 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	21.0

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1			408	56.2	2.92	1.000
3-MoCB	2		U		56.2		
4-MoCB	3			343	56.2	2.97	1.001
2,2'-DiCB	4			1680	56.2	1.43	1.000
2,3-DiCB	5		U		56.2		
2,3'-DiCB	6			828	56.2	1.53	1.178
2,4-DiCB	7			119	56.2	1.51	1.159
2,4'-DiCB	8			2840	56.2	1.51	1.209
2,5-DiCB	9			138	56.2	1.46	1.147
2,6-DiCB	10			69.2	56.2	1.45	1.013
3,3'-DiCB	11			237	56.2	1.52	0.970
3,4-DiCB	12	12 + 13	C	1780	112	1.51	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		56.2		
4,4'-DiCB	15			12400	56.2	1.51	1.001
2,2',3-TriCB	16			1360	56.2	1.03	1.166
2,2',4-TriCB	17			3170	56.2	1.04	1.139
2,2',5-TriCB	18	18 + 30	C	3740	112	1.05	1.115
2,2',6-TriCB	19			1280	56.2	1.02	1.001
2,3,3'-TriCB	20	20 + 28	C	18300	112	1.01	0.848
2,3,4-TriCB	21	21 + 33	C	2650	112	1.01	0.856
2,3,4'-TriCB	22			4260	56.2	1.00	0.872
2,3,5-TriCB	23		U		56.2		
2,3,6-TriCB	24			109	56.2	1.04	1.159
2,3',4-TriCB	25			2000	56.2	1.01	0.825
2,3',5-TriCB	26	26 + 29	C	3330	112	1.01	1.303
2,3',6-TriCB	27			1840	56.2	1.04	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			11300	56.2	1.01	0.836
2,4',6-TriCB	32			3040	56.2	0.99	1.198
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			65.6	56.2	1.04	1.275
3,3',4-TriCB	35			396	56.2	0.99	0.985
3,3',5-TriCB	36		U		56.2		
3,4,4'-TriCB	37			11700	56.2	1.01	1.001
3,4,5-TriCB	38		U		56.2		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TrICB	39			124	56.2	0.96	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C	18300	168	0.79	1.337
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			10500	56.2	0.79	1.312
2,2',3,5-TeCB	43			998	56.2	0.78	1.247
2,2',3,5'-TeCB	44	44 + 47 + 65	C	75100	168	0.78	1.286
2,2',3,6-TeCB	45	45 + 51	C	4950	112	0.78	1.147
2,2',3,6'-TeCB	46			1430	56.2	0.78	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			2950	56.2	0.78	1.274
2,2',4,5'-TeCB	49	49 + 69	C	58200	112	0.78	1.260
2,2',4,6-TeCB	50	50 + 53	C	6020	112	0.78	1.111
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		~~E~~	118000	*		
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			231	56.2	0.80	1.001
2,3,3',4-TeCB	55			1490	56.2	0.77	0.889
2,3,3',4'-TeCB	56			21500	56.2	0.77	0.905
2,3,3',5-TeCB	57			371	56.2	0.67	0.844
2,3,3',5'-TeCB	58			616	56.2	0.71	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C	3080	168	0.78	1.302
2,3,4,4'-TeCB	60			7850	56.2	0.77	0.910
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C~~E~~	128000	*		
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			2100	56.2	0.75	0.864
2,3,4',6-TeCB	64			22600	56.2	0.78	1.349
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			76400	56.2	0.77	0.884
2,3',4,5-TeCB	67			981	56.2	0.74	0.857
2,3',4,5'-TeCB	68			1150	56.2	0.75	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			1260	56.2	0.75	0.823
2,3',5',6-TeCB	73		U		56.2		
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			8550	56.2	0.77	1.000
3,3',4,5-TeCB	78		U		56.2		
3,3',4,5'-TeCB	79			3270	56.2	0.70	0.970
3,3',5,5'-TeCB	80		U		56.2		
3,4,4',5-TeCB	81		Q ~~EMPC~~	695	56.2	0.68	1.000
2,2',3,3',4-PeCB	82			34700	56.2	1.56	0.934
2,2',3,3',5-PeCB	83	83 + 99	C~~E~~	176000	*		
2,2',3,3',6-PeCB	84			67400	56.2	1.57	1.162
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	69700	168	1.57	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C~~E~~	197000	*		
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C	43900	112	1.57	1.154
2,2',3,4,6'-PeCB	89			1400	56.2	1.59	1.181
2,2',3,4',5-PeCB	90	90 + 101 + 113	C~~E~~	289000	*		
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92			62500	56.2	1.57	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	J C~~E~~	186000	*		
2,2',3,5,6'-PeCB	94			1310	56.2	1.57	1.102
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			922	56.2	1.57	1.015
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				

* Transfer from dilution

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			1590	56.2	1.55	1.093
2,2',4,6,6'-PeCB	104		U		56.2		
2,3,3',4,4'-PeCB	105		~~E~~	145000			
2,3,3',4,5-PeCB	106		U		56.2		
2,3,3',4',5-PeCB	107	107 + 124	C	18800	112	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			29400	56.2	1.52	0.997
2,3,3',4',6-PeCB	110	110 + 115	C ~~E~~	374000			
2,3,3',5,5'-PeCB	111		U		56.2		
2,3,3',5,6-PeCB	112		U		56.2		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			9030	56.2	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~~	361000			
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			387	56.2	1.58	0.958
2,3',4,5',6-PeCB	121		U		56.2		
2',3,3',4,5-PeCB	122			4740	56.2	1.53	1.010
2',3,4,4',5-PeCB	123			7970	56.2	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			1340	56.2	1.48	1.000
3,3',4,5,5'-PeCB	127		U		56.2		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	95400	112	1.25	0.958
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C ~~E~~	418000			
2,2',3,3',4,5'-HxCB	130			29400	56.2	1.25	0.913
2,2',3,3',4,6-HxCB	131			5660	56.2	1.24	1.158
2,2',3,3',4,6'-HxCB	132			142000	56.2	1.25	1.173
2,2',3,3',5,5'-HxCB	133			4490	56.2	1.26	1.190
2,2',3,3',5,6-HxCB	134	134 + 143	C	20600	112	1.25	1.139
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	75500	168	1.25	1.104
2,2',3,3',6,6'-HxCB	136			32000	56.2	1.25	1.023
2,2',3,4,4',5-HxCB	137			30600	56.2	1.24	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	8770	112	1.24	1.152
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			58600	56.2	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		56.2		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			10900	56.2	1.24	1.121
2,2',3,4,6,6'-HxCB	145			134	56.2	1.31	1.033
2,2',3,4',5,5'-HxCB	146			46400	56.2	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C ~~E~~	291000			
2,2',3,4',5,6'-HxCB	148			227	56.2	1.23	1.083
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			318	56.2	1.23	1.012
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			319	56.2	1.24	1.006
2,2',4,4',5,5'-HxCB	153	153 + 168	C ~~E~~	250000			
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		56.2		
2,3,3',4,4',5-HxCB	156	156 + 157	C	70800	112	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			46900	56.2	1.25	0.938
2,3,3',4,5,5'-HxCB	159			1030	56.2	1.23	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		56.2		
2,3,3',4',5,5'-HxCB	162			1730	56.2	1.21	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			28200	56.2	1.25	0.921
2,3,3',5,5',6-HxCB	165		U		56.2		
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			22000	56.2	1.25	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		56.2		
2,2',3,3',4,4',5-HpCB	170			37200	56.2	1.03	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	10400	112	1.04	1.162
2,2',3,3',4,5,5'-HpCB	172			4880	56.2	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			23200	56.2	1.03	1.132
2,2',3,3',4,5',6-HpCB	175			868	56.2	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			2510	56.2	1.04	1.034
2,2',3,3',4',5,6-HpCB	177			13800	56.2	1.03	1.145
2,2',3,3',5,5',6-HpCB	178			3620	56.2	1.03	1.085
2,2',3,3',5,6,6'-HpCB	179			6680	56.2	1.04	1.009
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	50900	112	1.04	0.911
2,2',3,4,4',5,6-HpCB	181			961	56.2	1.04	1.156
2,2',3,4,4',5,6'-HpCB	182			242	56.2	1.09	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	14900	112	1.03	1.126
2,2',3,4,4',6,6'-HpCB	184		U		56.2		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		56.2		
2,2',3,4',5,5',6-HpCB	187			21500	56.2	1.03	1.110
2,2',3,4',5,6,6'-HpCB	188		U		56.2		
2,3,3',4,4',5,5'-HpCB	189			1930	56.2	1.04	1.000
2,3,3',4,4',5,6-HpCB	190			6490	56.2	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			1200	56.2	1.03	0.918
2,3,3',4,5,5',6-HpCB	192		U		56.2		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194			5000	56.2	0.88	0.991
2,2',3,3',4,4',5,6-OcCB	195			1980	56.2	0.88	0.946
2,2',3,3',4,4',5,6'-OcCB	196			2210	56.2	0.88	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	758	112	0.89	1.046
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C	5240	112	0.88	1.114
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			466	56.2	0.90	1.023
2,2',3,3',5,5',6,6'-OcCB	202			985	56.2	0.89	1.000
2,2',3,4,4',5,6',6-OcCB	203			3410	56.2	0.89	0.920
2,2',3,4,4',5,6,6'-OcCB	204		U		56.2		
2,3,3',4,4',5,6',6-OcCB	205			279	56.2	0.89	1.000
2,2',3,3',4,4',5,5',6-NoCB	206			2130	56.2	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			255	56.2	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			571	56.2	0.80	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			795	56.2	0.71	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; EMPC = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener; E = exceeds calibrated linear range, see dilution data.

Approved by: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 26-Nov-2008 12:13:07; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_PCBTF_L11788-5_Form1A_PB8C_429S5_SJ925586.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5408
Sample Collection:
24-Sep-2008 12:27

Form 1A
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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-5 R (A)
Matrix:	SOLID	Sample Size:	3.56 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	03-Nov-2008 Time: 23:59:33	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename(s):	PB8C_429 S: 5, PB8C_434 S: 8
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_429 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	21.0

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		751
Total Dichloro Biphenyls		20100
Total Trichloro Biphenyls		68700
Total Tetrachloro Biphenyls		576000
Total Pentachloro Biphenyls		2080000
Total Hexachloro Biphenyls		1600000
Total Heptachloro Biphenyls		201000
Total Octachloro Biphenyls		20300
Total Nonachloro Biphenyls		2960
Decachloro Biphenyl		795
TOTAL PCBs		4570000

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: .xsl; Created: 26-Nov-2008 12:14:50; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-5_Form1AHT_SJ925586.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5408

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.:	4125	Sample Collection:	24-Sep-2008 12:27
		Case & TO No.	08-006 EP08W002469
Matrix:	SOLID	Lab Sample I.D.:	L11788-5 R (A)
Sample Size:	3.56 g (dry)	GC Column ID(s):	SPB OCTYL
Concentration Units:	ng/kg (dry weight basis)	Sample Data Filename(s):	PB8C_429 S: 5 PB8C_434 S: 8

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			8550	56.2	0.0001	8.55e-01	8.55e-01	
3,4,4',5-TeCB	81		U		56.2	0.0003	0.00e+00	8.43e-03	
2,3,3',4,4'-PeCB	105			145000	842	0.00003	4.35e+00	4.35e+00	
2,3,4,4',5-PeCB	114			9030	56.2	0.00003	2.71e-01	2.71e-01	
2,3',4,4',5-PeCB	118			361000	842	0.00003	1.08e+01	1.08e+01	
2',3,4,4',5-PeCB	123			7970	56.2	0.00003	2.39e-01	2.39e-01	
3,3',4,4',5-PeCB	126			1340	56.2	0.1	1.34e+02	1.34e+02	
2,3,3',4,4',5-HxCB	156	156 + 157	C	70800	112	0.00003	2.12e+00	2.12e+00	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			22000	56.2	0.00003	6.60e-01	6.60e-01	
3,3',4,4',5,5'-HxCB	169		U		56.2	0.03	0.00e+00	8.43e-01	
2,3,3',4,4',5,5'-HpCB	189			1930	56.2	0.00003	5.79e-02	5.79e-02	
					TOTAL TEQ		153	154	

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 26-Nov-2008 12:32:40; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-5_TEQ_SJ925586.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
B5408 (Duplicate)
Sample Collection:
24-Sep-2008 12:27

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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	WG26833-103 (DUP L11788-5)
Matrix:	SOLID	Sample Size:	3.76 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	04-Nov-2008 Time: 01:03:55	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_429 S: 6
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_429 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	20.1

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1			406	53.3	2.92	1.000
3-MoCB	2		U		53.3		
4-MoCB	3			235	53.3	2.91	1.000
2,2'-DiCB	4			2010	53.3	1.48	1.001
2,3-DiCB	5		U		53.3		
2,3'-DiCB	6			591	53.3	1.46	1.178
2,4-DiCB	7			138	53.3	1.53	1.159
2,4'-DiCB	8			1620	53.3	1.49	1.209
2,5-DiCB	9			98.5	53.3	1.51	1.147
2,6-DiCB	10			72.8	53.3	1.50	1.013
3,3'-DiCB	11			200	53.3	1.49	0.969
3,4-DiCB	12	12 + 13	C	1130	107	1.50	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		53.3		
4,4'-DiCB	15			7200	53.3	1.51	1.000
2,2',3-TriCB	16			1160	53.3	1.05	1.165
2,2',4-TriCB	17			2830	53.3	1.05	1.138
2,2',5-TriCB	18	18 + 30	C	3190	107	1.05	1.114
2,2',6-TriCB	19			1240	53.3	1.04	1.001
2,3,3'-TriCB	20	20 + 28	C	15800	107	1.00	0.848
2,3,4-TriCB	21	21 + 33	C	1660	107	1.01	0.857
2,3,4'-TriCB	22			3500	53.3	1.02	0.872
2,3,5-TriCB	23		U		53.3		
2,3,6-TriCB	24			108	53.3	1.02	1.157
2,3',4-TriCB	25			1740	53.3	1.02	0.825
2,3',5-TriCB	26	26 + 29	C	2830	107	1.01	1.302
2,3',6-TriCB	27			1740	53.3	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			9850	53.3	1.01	0.837
2,4',6-TriCB	32			2780	53.3	1.02	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		53.3		
3,3',4-TriCB	35			323	53.3	1.01	0.985
3,3',5-TriCB	36		U		53.3		
3,4,4'-TriCB	37			9070	53.3	1.00	1.001
3,4,5-TriCB	38		U		53.3		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			126	53.3	0.93	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C	17900	160	0.78	1.338
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			10500	53.3	0.78	1.312
2,2',3,5-TeCB	43			961	53.3	0.79	1.248
2,2',3,5'-TeCB	44	44 + 47 + 65	C	75000	160	0.78	1.286
2,2',3,6-TeCB	45	45 + 51	C	4340	107	0.79	1.148
2,2',3,6'-TeCB	46			1310	53.3	0.77	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			2990	53.3	0.78	1.274
2,2',4,5'-TeCB	49	49 + 69	C	57700	107	0.78	1.260
2,2',4,6-TeCB	50	50 + 53	C	5240	107	0.78	1.111
2,2',4,6'-TeCB	51	45 + 51	C45	172000			
2,2',5,5'-TeCB	52		~~E~~				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			183	53.3	0.76	1.001
2,3,3',4-TeCB	55			1320	53.3	0.77	0.888
2,3,3',4'-TeCB	56			21900	53.3	0.77	0.905
2,3,3',5-TeCB	57			391	53.3	0.71	0.844
2,3,3',5'-TeCB	58			615	53.3	0.70	0.850
2,3,3',6-TeCB	59	59 + 62 + 75	C	3120	160	0.78	1.303
2,3,4,4'-TeCB	60			7920	53.3	0.77	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C ~~E~~	176000			
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			2080	53.3	0.77	0.864
2,3,4',6-TeCB	64			23100	53.3	0.78	1.349
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			79200	53.3	0.77	0.884
2,3',4,5-TeCB	67			986	53.3	0.76	0.857
2,3',4,5'-TeCB	68			1110	53.3	0.77	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			1290	53.3	0.77	0.823
2,3',5',6-TeCB	73		U		53.3		
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			8640	53.3	0.77	1.000
3,3',4,5-TeCB	78		U		53.3		
3,3',4,5'-TeCB	79			3170	53.3	0.70	0.970
3,3',5,5'-TeCB	80		U		53.3		
3,4,4',5-TeCB	81		Q ~~EMPC~~	610	53.3	0.74	1.000
2,2',3,3',4-PeCB	82			35700	53.3	1.56	0.934
2,2',3,3',5-PeCB	83	83 + 99	C ~~E~~	252000			
2,2',3,3',6-PeCB	84			71400	53.3	1.57	1.162
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	71000	160	1.57	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C ~~E~~	279000			
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C	47100	107	1.57	1.155
2,2',3,4,6'-PeCB	89			1460	53.3	1.55	1.182
2,2',3,4',5-PeCB	90	90 + 101 + 113	C ~~E~~	417000			
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92			65300	53.3	1.57	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C ~~E~~	281000			
2,2',3,5,6'-PeCB	94			1330	53.3	1.56	1.102
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			960	53.3	1.55	1.015
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			1640	53.3	1.60	1.093
2,2',4,6,6'-PeCB	104		U		53.3		
2,3,3',4,4'-PeCB	105		~~E~~	197000 *			
2,3,3',4,5-PeCB	106		U		53.3		
2,3,3',4',5-PeCB	107	107 + 124	C	19400	107	1.54	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			30700	53.3 *	1.51	0.997
2,3,3',4',6-PeCB	110	110 + 115	C~~E~~	520000			
2,3,3',5,5'-PeCB	111		U		53.3		
2,3,3',5,6-PeCB	112		U		53.3		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			9350	53.3	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	481000 *			
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			391	53.3	1.61	0.959
2,3',4,5',6-PeCB	121		U		53.3		
2',3,3',4,5-PeCB	122			4900	53.3	1.58	1.010
2',3,4,4',5-PeCB	123			8050	53.3	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			1500	53.3	1.62	1.000
3,3',4,5,5'-PeCB	127		U		53.3		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	99700	107	1.25	0.958
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C~~E~~	614000 *			
2,2',3,3',4,5'-HxCB	130			31500	53.3	1.25	0.913
2,2',3,3',4,6-HxCB	131			6360	53.3	1.21	1.159
2,2',3,3',4,6'-HxCB	132			157000	53.3	1.24	1.174
2,2',3,3',5,5'-HxCB	133			4950	53.3	1.23	1.191
2,2',3,3',5,6-HxCB	134	134 + 143	C	23300	107	1.26	1.140
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	85500	160	1.24	1.104
2,2',3,3',6,6'-HxCB	136			36900	53.3	1.24	1.023
2,2',3,4,4',5-HxCB	137			36300	53.3	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	10000	107	1.26	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			63800	53.3	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		53.3		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			12300	53.3	1.25	1.121
2,2',3,4,6,6'-HxCB	145			152	53.3	1.31	1.033
2,2',3,4',5,5'-HxCB	146			50500	53.3 *	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C~~E~~	323000			
2,2',3,4',5,6'-HxCB	148			260	53.3	1.26	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			370	53.3	1.24	1.012
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			370	53.3	1.22	1.006
2,2',4,4',5,5'-HxCB	153	153 + 168	C~~E~~	378000 *			
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		53.3		
2,3,3',4,4',5-HxCB	156	156 + 157	C	70000	107	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			49500	53.3	1.25	0.938
2,3,3',4,5,5'-HxCB	159			1010	53.3	1.24	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		53.3		
2,3,3',4',5,5'-HxCB	162			1840	53.3	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			27400	53.3	1.26	0.921
2,3,3',5,5',6-HxCB	165		U		53.3		
2,3,4,4',5,6-HxCB	166	128 + 166	C128				

* Transfer from dilution

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			21900	53.3	1.25	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		62.4		
2,2',3,3',4,4',5-HpCB	170			32600	53.3	1.03	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	9940	107	1.04	1.162
2,2',3,3',4,5,5'-HpCB	172			4430	53.3	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			23000	53.3	1.04	1.132
2,2',3,3',4,5',6-HpCB	175			863	53.3	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			2600	53.3	1.02	1.034
2,2',3,3',4',5,6-HpCB	177			13400	53.3	1.03	1.145
2,2',3,3',5,5',6-HpCB	178			3640	53.3	1.03	1.085
2,2',3,3',5,6,6'-HpCB	179			7000	53.3	1.03	1.009
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	45200	107	1.03	0.911
2,2',3,4,4',5,6-HpCB	181			920	53.3	1.07	1.156
2,2',3,4,4',5,6'-HpCB	182			244	53.3	1.08	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	14500	107	1.03	1.127
2,2',3,4,4',6,6'-HpCB	184		U		53.3		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		53.3		
2,2',3,4',5,5',6-HpCB	187			21300	53.3	1.03	1.110
2,2',3,4',5,6,6'-HpCB	188		U		53.3		
2,3,3',4,4',5,5'-HpCB	189			2000	53.3	1.05	1.000
2,3,3',4,4',5,6-HpCB	190			5520	53.3	1.03	0.947
2,3,3',4,4',5',6-HpCB	191			1060	53.3	1.03	0.918
2,3,3',4,5,5',6-HpCB	192		U		53.3		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194			4310	53.3	0.89	0.991
2,2',3,3',4,4',5,6-OcCB	195			1990	53.3	0.86	0.945
2,2',3,3',4,4',5,6'-OcCB	196			2180	53.3	0.89	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	840	107	0.87	1.046
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C	5290	107	0.89	1.114
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			530	53.3	0.87	1.023
2,2',3,3',5,5',6,6'-OcCB	202			1030	53.3	0.89	1.000
2,2',3,4,4',5,5',6-OcCB	203			3370	53.3	0.89	0.920
2,2',3,4,4',5,6,6'-OcCB	204		U		53.3		
2,3,3',4,4',5,5',6-OcCB	205			281	53.3	0.90	1.000
2,2',3,3',4,4',5,5',6-NoCB	206			2200	53.3	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			272	53.3	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			612	53.3	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			761	53.3	0.65	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; EMPC = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener; E = exceeds calibrated linear range, see dilution data.

Approved by: Jason MacKenzie QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 26-Nov-2008 12:13:07; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_PCBTF_WG26833-103_Form1A_PB8C_429S6_SJ925588.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5408 (Duplicate)
Sample Collection:
24-Sep-2008 12:27

Form 1A
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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	WG26833-103 (DUP L11788-5)
Matrix:	SOLID	Sample Size:	3.76 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	04-Nov-2008 Time: 01:03:55	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename(s):	PB8C_429 S: 6, PB8C_434 S: 9
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_429 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	20.1

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		641
Total Dichloro Biphenyls		13100
Total Trichloro Biphenyls		57900
Total Tetrachloro Biphenyls		679000
Total Pentachloro Biphenyls		2800000
Total Hexachloro Biphenyls		2110000
Total Heptachloro Biphenyls		188000
Total Octachloro Biphenyls		19800
Total Nonachloro Biphenyls		3080
Decachloro Biphenyl		761
TOTAL PCBs		5870000

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: .xsl; Created: 26-Nov-2008 12:14:50; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_WG26833-103_Form1AHT_SJ925588.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5408 (Duplicate)

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.:	4125	Sample Collection:	24-Sep-2008 12:27
		Case & TO No.	08-006 EP08W002469
Matrix:	SOLID	Lab Sample I.D.:	WG26833-103 (DUP L11788-5)
Sample Size:	3.76 g (dry)	GC Column ID(s):	SPB OCTYL
Concentration Units:	ng/kg (dry weight basis)	Sample Data Filename(s):	PB8C_429 S: 6 PB8C_434 S: 9

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			8640	53.3	0.0001	8.64e-01	8.64e-01	
3,4,4',5-TeCB	81		U		53.3	0.0003	0.00e+00	8.00e-03	
2,3,3',4,4'-PeCB	105			197000	799	0.00003	5.91e+00	5.91e+00	
2,3,4,4',5-PeCB	114			9350	53.3	0.00003	2.81e-01	2.81e-01	
2,3',4,4',5-PeCB	118			481000	799	0.00003	1.44e+01	1.44e+01	
2',3,4,4',5-PeCB	123			8050	53.3	0.00003	2.42e-01	2.42e-01	
3,3',4,4',5-PeCB	126			1500	53.3	0.1	1.50e+02	1.50e+02	
2,3,3',4,4',5-HxCB	156	156 + 157	C	70000	107	0.00003	2.10e+00	2.10e+00	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			21900	53.3	0.00003	6.57e-01	6.57e-01	
3,3',4,4',5,5'-HxCB	169		U		62.4	0.03	0.00e+00	9.36e-01	
2,3,3',4,4',5,5'-HpCB	189			2000	53.3	0.00003	6.00e-02	6.00e-02	
					TOTAL TEQ		175	175	

(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: Jason MacKenzie QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 26-Nov-2008 12:32:40; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_HomTotals-TEQs_WG26833-103_TEQ_SJ925588.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

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

Case & TO No. 08-006 EP08W002469

Contract No.: 4125

Client ID: B5408

Concentration Units: ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	L11788-5 (A) LAB FLAG [1]	L11788-5 (A) CONC. FOUND	WG26833-103 LAB FLAG [1]	WG26833-103 CONC. FOUND	MEAN	RELATIVE PERCENT DIFFERENCE
2-MoCB	1		408		406	407	0.543
3-MoCB	2	U		U			
4-MoCB	3		343		235	289	37.3
2,2'-DiCB	4		1680		2010	1840	17.7
2,3-DICB	5	U		U			
2,3'-DiCB	6		828		591	710	33.4
2,4-DiCB	7		119		138	128	14.7
2,4'-DiCB	8		2840		1620	2230	54.6
2,5-DiCB	9		138		98.5	118	33.2
2,6-DiCB	10		69.2		72.8	71.0	5.05
3,3'-DiCB	11		237		200	218	16.7
3,4-DiCB	12	C	1780	C	1130	1450	44.4
3,4'-DiCB	13	C12		C12			
3,5-DiCB	14	U		U			
4,4'-DiCB	15		12400		7200	9780	52.8
2,2',3-TriCB	16		1360		1160	1260	16.0
2,2',4-TriCB	17		3170		2830	3000	11.5
2,2',5-TriCB	18	C	3740	C	3190	3470	16.0
2,2',6-TriCB	19		1280		1240	1260	3.81
2,3,3'-TriCB	20	C	18300	C	15800	17100	14.3
2,3,4-TriCB	21	C	2650	C	1660	2150	46.1
2,3,4'-TriCB	22		4260		3500	3880	19.6
2,3,5-TriCB	23	U		U			
2,3,6-TriCB	24		109		108	109	1.54
2,3',4-TriCB	25		2000		1740	1870	13.9
2,3',5-TriCB	26	C	3330	C	2830	3080	16.1
2,3',6-TriCB	27		1840		1740	1790	5.20
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		11300		9850	10600	13.7
2,4',6-TriCB	32		3040		2780	2910	9.18
2',3,4-TriCB	33	C21		C21			
2',3,5-TriCB	34		65.6	U			
3,3',4-TriCB	35		396		323	360	20.3
3,3',5-TriCB	36	U		U			
3,4,4'-TriCB	37		11700		9070	10400	25.0
3,4,5-TriCB	38	U		U			
3,4',5-TriCB	39		124		126	125	1.79
2,2',3,3'-TeCB	40	C	18300	C	17900	18100	2.23
2,2',3,4-TeCB	41	C40		C40			
2,2',3,4'-TeCB	42		10500		10500	10500	0.059
2,2',3,5-TeCB	43		998		961	979	3.76
2,2',3,5'-TeCB	44	C	75100	C	75000	75100	0.137
2,2',3,6-TeCB	45	C	4950	C	4340	4650	13.1
2,2',3,6'-TeCB	46		1430		1310	1370	8.87
2,2',4,4'-TeCB	47	C44		C44			
2,2',4,5-TeCB	48		2950		2990	2970	1.11
2,2',4,5'-TeCB	49	C	58200	C	57700	58000	0.818
2,2',4,6-TeCB	50	C	6020	C	5240	5630	13.8
2,2',4,6'-TeCB	51	C45		C45			
2,2',5,5'-TeCB	52	D	118000	D	172000	145000	37.2
2,2',5,6'-TeCB	53	C50		C50			
2,2',6,6'-TeCB	54		231		183	207	23.3
2,3,3',4-TeCB	55		1490		1320	1410	12.3
2,3,3',4'-TeCB	56		21500		21900	21700	2.02
2,3,3',5-TeCB	57		371		391	381	5.21
2,3,3',5'-TeCB	58		616		615	615	0.065
2,3,3',6-TeCB	59	C	3080	C	3120	3100	1.38
2,3,4,4'-TeCB	60		7850		7920	7880	0.833

COMPOUND	IUPAC NO.	L11788-5 (A) LAB FLAG [1]	L11788-5 (A) CONC. FOUND	WG26833-103 LAB FLAG [1]	WG26833-103 CONC. FOUND	MEAN	RELATIVE PERCENT DIFFERENCE
2,3,4,5-TeCB	61	C D	128000	C D	176000	152000	31.6
2,3,4,6-TeCB	62	C59		C59			
2,3,4',5-TeCB	63		2100		2080	2090	0.637
2,3,4',6-TeCB	64		22600		23100	22800	2.46
2,3,5,6-TeCB	65	C44		C44			
2,3',4,4'-TeCB	66		76400		79200	77800	3.66
2,3',4,5-TeCB	67		981		986	983	0.483
2,3',4,5'-TeCB	68		1150		1110	1130	3.24
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		1260		1290	1270	2.49
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		8550		8640	8600	1.09
3,3',4,5-TeCB	78	U		U			
3,3',4,5'-TeCB	79		3270		3170	3220	3.23
3,3',5,5'-TeCB	80	U		U			
3,4,4',5-TeCB	81	EMPC	695	EMPC	610		
2,2',3,3',4-PeCB	82		34700		35700	35200	2.64
2,2',3,3',5-PeCB	83	C D	176000	C D	252000	214000	35.4
2,2',3,3',6-PeCB	84		67400		71400	69400	5.77
2,2',3,4,4'-PeCB	85	C	69700	C	71000	70300	1.85
2,2',3,4,5-PeCB	86	C D	197000	C D	279000	238000	34.4
2,2',3,4,5'-PeCB	87	C86		C86			
2,2',3,4,6-PeCB	88	C	43900	C	47100	45500	6.94
2,2',3,4,6'-PeCB	89		1400		1460	1430	4.13
2,2',3,4',5-PeCB	90	C D	289000	C D	417000	353000	36.4
2,2',3,4',6-PeCB	91	C88		C88			
2,2',3,5,5'-PeCB	92		62500		65300	63900	4.44
2,2',3,5,6-PeCB	93	C D J	186000	C D	281000	234000	40.6
2,2',3,5,6'-PeCB	94		1310		1330	1320	1.35
2,2',3,5',6-PeCB	95	C93		C93			
2,2',3,6,6'-PeCB	96		922		960	941	4.12
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		1590		1640	1610	3.26
2,2',4,6,6'-PeCB	104	U		U			
2,3,3',4,4'-PeCB	105	D	145000	D	197000	171000	30.5
2,3,3',4,5-PeCB	106	U		U			
2,3,3',4',5-PeCB	107	C	18800	C	19400	19100	3.05
2,3,3',4,5'-PeCB	108	C86		C86			
2,3,3',4,6-PeCB	109		29400		30700	30000	4.47
2,3,3',4',6-PeCB	110	C D	374000	C D	520000	447000	32.7
2,3,3',5,5'-PeCB	111	U		U			
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		9030		9350	9190	3.40
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	D	361000	D	481000	421000	28.7
2,3',4,4',6-PeCB	119	C86		C86			
2,3',4,5,5'-PeCB	120		387		391	389	1.03
2,3',4,5',6-PeCB	121	U		U			
2',3,3',4,5-PeCB	122		4740		4900	4820	3.33
2',3,4,4',5-PeCB	123		7970		8050	8010	0.938
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		1340		1500	1420	11.5
3,3',4,5,5'-PeCB	127	U		U			
2,2',3,3',4,4'-HxCB	128	C	95400	C	99700	97600	4.43
2,2',3,3',4,5-HxCB	129	C D	416000	C D	614000	515000	38.6

COMPOUND	IUPAC NO.	L11788-5 (A) LAB FLAG [1]	L11788-5 (A) CONC. FOUND	WG26833-103 LAB FLAG [1]	WG26833-103 CONC. FOUND	MEAN	RELATIVE PERCENT DIFFERENCE
2,2',3,3',4,5'-HxCB	130		29400		31500	30400	6.99
2,2',3,3',4,6-HxCB	131		5660		6360	6010	11.6
2,2',3,3',4,6'-HxCB	132		142000		157000	150000	10.1
2,2',3,3',5,5'-HxCB	133		4490		4950	4720	9.72
2,2',3,3',5,6-HxCB	134	C	20600	C	23300	21900	12.3
2,2',3,3',5,6'-HxCB	135	C	75500	C	85500	80500	12.5
2,2',3,3',6,6'-HxCB	136		32000		36900	34400	14.4
2,2',3,4,4',5-HxCB	137		30600		36300	33400	17.2
2,2',3,4,4',5'-HxCB	138	C129		C129			
2,2',3,4,4',6-HxCB	139	C	8770	C	10000	9400	13.5
2,2',3,4,4',6'-HxCB	140	C139		C139			
2,2',3,4,5,5'-HxCB	141		58600		63800	61200	8.52
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		10900		12300	11600	11.9
2,2',3,4,6,6'-HxCB	145		134		152	143	13.2
2,2',3,4',5,5'-HxCB	146		46400		50500	48500	8.38
2,2',3,4',5,6-HxCB	147	C D	201000	C D	323000	262000	46.7
2,2',3,4',5,6'-HxCB	148		227		260	243	13.8
2,2',3,4',5',6-HxCB	149	C147		C147			
2,2',3,4',6,6'-HxCB	150		318		370	344	15.0
2,2',3,5,5',6-HxCB	151	C135		C135			
2,2',3,5,6,6'-HxCB	152		319		370	344	14.8
2,2',4,4',5,5'-HxCB	153	C D	250000	C D	378000	314000	40.6
2,2',4,4',5,6'-HxCB	154	C135		C135			
2,2',4,4',6,6'-HxCB	155	U		U			
2,3,3',4,4',5-HxCB	156	C	70800	C	70000	70400	1.09
2,3,3',4,4',5'-HxCB	157	C156		C156			
2,3,3',4,4',6-HxCB	158		46900		49500	48200	5.57
2,3,3',4,5,5'-HxCB	159		1030		1010	1020	1.19
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		1730		1840	1780	5.90
2,3,3',4',5,6-HxCB	163	C129		C129			
2,3,3',4',5',6-HxCB	164		28200		27400	27800	2.94
2,3,3',5,5',6-HxCB	165	U		U			
2,3,4,4',5,6-HxCB	166	C128		C128			
2,3',4,4',5,5'-HxCB	167		22000		21900	21900	0.396
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		37200		32600	34900	13.3
2,2',3,3',4,4',6-HpCB	171	C	10400	C	9940	10200	4.42
2,2',3,3',4,5,5'-HpCB	172		4880		4430	4650	9.81
2,2',3,3',4,5,6-HpCB	173	C171		C171			
2,2',3,3',4,5,6'-HpCB	174		23200		23000	23100	0.519
2,2',3,3',4,5',6-HpCB	175		868		863	866	0.636
2,2',3,3',4,6,6'-HpCB	176		2510		2600	2550	3.54
2,2',3,3',4',5,6-HpCB	177		13800		13400	13600	2.81
2,2',3,3',5,5',6-HpCB	178		3620		3640	3630	0.377
2,2',3,3',5,6,6'-HpCB	179		6680		7000	6840	4.66
2,2',3,4,4',5,5'-HpCB	180	C	50900	C	45200	48000	11.7
2,2',3,4,4',5,6-HpCB	181		961		920	940	4.29
2,2',3,4,4',5,6'-HpCB	182		242		244	243	0.587
2,2',3,4,4',5',6-HpCB	183	C	14900	C	14500	14700	2.46
2,2',3,4,4',6,6'-HpCB	184	U		U			
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		21500		21300	21400	0.908
2,2',3,4',5,6,6'-HpCB	188	U		U			
2,3,3',4,4',5,5'-HpCB	189		1930		2000	1960	3.17
2,3,3',4,4',5,6-HpCB	190		6490		5520	6010	16.2
2,3,3',4,4',5',6-HpCB	191		1200		1060	1130	12.0
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'-OcCB	194		5000		4310	4660	14.7
2,2',3,3',4,4',5,6-OcCB	195		1980		1990	1990	0.464
2,2',3,3',4,4',5,6'-OcCB	196		2210		2180	2200	1.66
2,2',3,3',4,4',6,6'-OcCB	197	C	758	C	840	799	10.3
2,2',3,3',4,5,5',6-OcCB	198	C	5240	C	5290	5260	1.02

COMPOUND	IUPAC NO.	L11788-5 (A) LAB FLAG [1]	L11788-5 (A) CONC. FOUND	WG26833-103 LAB FLAG [1]	WG26833-103 CONC. FOUND	MEAN	RELATIVE PERCENT DIFFERENCE
2,2',3,3',4,5,5',6'-OcCB	199	C198		C198			
2,2',3,3',4,5,6,6'-OcCB	200	C197		C197			
2,2',3,3',4,5',6,6'-OcCB	201		466		530	498	12.9
2,2',3,3',5,5',6,6'-OcCB	202		985		1030	1010	4.42
2,2',3,4,4',5,5',6-OcCB	203		3410		3370	3390	1.09
2,2',3,4,4',5,6,6'-OcCB	204	U		U			
2,3,3',4,4',5,5',6-OcCB	205		279		281	280	0.525
2,2',3,3',4,4',5,5',6-NoCB	206		2130		2200	2160	3.19
2,2',3,3',4,4',5,6,6'-NoCB	207		255		272	264	6.73
2,2',3,3',4,5,5',6,6'-NoCB	208		571		612	591	6.89
2,2',3,3',4,4',5,5',6,6'-DeCB	209		795		761	778	4.32

(1) Where applicable, custom lab flags have been used on this report; U = not detected; EMPC = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; D = dilution data; J = concentration less than LMCL; C = co-eluting congener.

Approved by: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: RPD.xsl; Created: 26-Nov-2008 12:14:38; Application: XMLTransformer-1.9.15; Report Filename: RPD_PCB1668_RPD_WG26833-103_L11788-5_.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5419
Sample Collection:
24-Sep-2008 14:22

Form 1A
PCB CONGENER ANALYSIS REPORT

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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-6 R
Matrix:	SOLID	Sample Size:	3.20 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	03-Nov-2008 Time: 15:18:46	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_428 S: 8
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_428 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	11.8

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		U		62.4		
3-MoCB	2		U		62.4		
4-MoCB	3		U		62.4		
2,2'-DiCB	4		U		62.4		
2,3-DiCB	5		U		62.4		
2,3'-DiCB	6		U		62.4		
2,4-DiCB	7		U		62.4		
2,4'-DiCB	8		U		62.4		
2,5-DiCB	9		U		62.4		
2,6-DiCB	10		U		62.4		
3,3'-DiCB	11		U		62.4		
3,4-DiCB	12	12 + 13	C U		125		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		62.4		
4,4'-DiCB	15		U		62.4		
2,2',3-TriCB	16		U		62.4		
2,2',4-TriCB	17		U		62.4		
2,2',5-TriCB	18	18 + 30	C U		125		
2,2',6-TriCB	19		U		62.4		
2,3,3'-TriCB	20	20 + 28	C U		125		
2,3,4-TriCB	21	21 + 33	C U		125		
2,3,4'-TriCB	22		U		62.4		
2,3,5-TriCB	23		U		62.4		
2,3,6-TriCB	24		U		62.4		
2,3',4-TriCB	25		U		62.4		
2,3',5-TriCB	26	26 + 29	C U		125		
2,3',6-TriCB	27		U		62.4		
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		U		62.4		
2,4',6-TriCB	32		U		62.4		
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		62.4		
3,3',4-TriCB	35		U		62.4		
3,3',5-TriCB	36		U		62.4		
3,4,4'-TriCB	37		U		62.4		
3,4,5-TriCB	38		U		62.4		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		U		62.4		
2,2',3,3'-TeCB	40	40 + 41 + 71	C U		187		
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		U		62.4		
2,2',3,5-TeCB	43		U		62.4		
2,2',3,5'-TeCB	44	44 + 47 + 65	C U		187		
2,2',3,6-TeCB	45	45 + 51	C U		125		
2,2',3,6'-TeCB	46		U		62.4		
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48		U		62.4		
2,2',4,5'-TeCB	49	49 + 69	C U		125		
2,2',4,6-TeCB	50	50 + 53	C U		125		
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52			95.6	62.4	0.74	1.234
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		62.4		
2,3,3',4-TeCB	55		U		62.4		
2,3,3',4'-TeCB	56		U		62.4		
2,3,3',5-TeCB	57		U		62.4		
2,3,3',5'-TeCB	58		U		62.4		
2,3,3',6-TeCB	59	59 + 62 + 75	C U		187		
2,3,4,4'-TeCB	60		U		62.4		
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C U		250		
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63		U		62.4		
2,3,4',6-TeCB	64		U		62.4		
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		U		62.4		
2,3',4,5-TeCB	67		U		62.4		
2,3',4,5'-TeCB	68		U		62.4		
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		62.4		
2,3',5',6-TeCB	73		U		62.4		
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		U		62.4		
3,3',4,5-TeCB	78		U		62.4		
3,3',4,5'-TeCB	79		U		62.4		
3,3',5,5'-TeCB	80		U		62.4		
3,4,4',5-TeCB	81		U		62.4		
2,2',3,3',4-PeCB	82		U		62.4		
2,2',3,3',5-PeCB	83	83 + 99	C	356	125	1.52	0.886
2,2',3,3',6-PeCB	84		U		62.4		
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C U		187		
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C U		375		
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		125		
2,2',3,4,6'-PeCB	89		U		62.4		
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	546	187	1.54	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92			108	62.4	1.59	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C U		312		
2,2',3,5,6'-PeCB	94		U		62.4		
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		62.4		
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		62.4		
2,2',4,6,6'-PeCB	104		U		62.4		
2,3,3',4,4'-PeCB	105			202	62.4	1.54	1.000
2,3,3',4,5-PeCB	106		U		62.4		
2,3,3',4',5-PeCB	107	107 + 124	C U		125		
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		U		62.4		
2,3,3',4',6-PeCB	110	110 + 115	C	752	125	1.57	0.925
2,3,3',5,5'-PeCB	111		U		62.4		
2,3,3',5,6-PeCB	112		U		62.4		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		U		62.4		
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			616	62.4	1.47	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		U		62.4		
2,3',4,5',6-PeCB	121		U		62.4		
2',3,3',4,5-PeCB	122		U		62.4		
2',3,4,4',5-PeCB	123		U		62.4		
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		62.4		
3,3',4,5,5'-PeCB	127		U		62.4		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	255	125	1.26	0.958
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	1400	250	1.23	0.928
2,2',3,3',4,5'-HxCB	130			71.2	62.4	1.14	0.913
2,2',3,3',4,6-HxCB	131		U		62.4		
2,2',3,3',4,6'-HxCB	132			183	62.4	1.21	1.173
2,2',3,3',5,5'-HxCB	133		U		62.4		
2,2',3,3',5,6-HxCB	134	134 + 143	C U		125		
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C U		187		
2,2',3,3',6,6'-HxCB	136		U		62.4		
2,2',3,4,4',5-HxCB	137			86.3	62.4	1.14	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 U		125		
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			135	62.4	1.26	0.903
2,2',3,4,5,6-HxCB	142		U		62.4		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		U		62.4		
2,2',3,4,6,6'-HxCB	145		U		62.4		
2,2',3,4',5,5'-HxCB	146			129	62.4	1.38	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C	371	125	1.23	1.133
2,2',3,4',5,6'-HxCB	148		U		62.4		
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		U		62.4		
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		62.4		
2,2',4,4',5,5'-HxCB	153	153 + 168	C	856	125	1.24	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		62.4		
2,3,3',4,4',5-HxCB	156	156 + 157	C	147	125	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			87.8	62.4	1.28	0.938
2,3,3',4,5,5'-HxCB	159		U		62.4		
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		62.4		
2,3,3',4',5,5'-HxCB	162		U		62.4		
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			74.8	62.4	1.20	0.921
2,3,3',5,5',6-HxCB	165		U		62.4		
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			72.3	62.4	1.20	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		62.4		
2,2',3,3',4,4',5-HpCB	170			96.3	62.4	1.08	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C U		125		
2,2',3,3',4,5,5'-HpCB	172		U		62.4		
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		U		62.4		
2,2',3,3',4,5',6-HpCB	175		U		62.4		
2,2',3,3',4,6,6'-HpCB	176		U		62.4		
2,2',3,3',4',5,6-HpCB	177		U		62.4		
2,2',3,3',5,5',6-HpCB	178		U		62.4		
2,2',3,3',5,6,6'-HpCB	179		U		62.4		
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	136	125	1.06	0.910
2,2',3,4,4',5,6-HpCB	181		U		62.4		
2,2',3,4,4',5,6'-HpCB	182		U		62.4		
2,2',3,4,4',5',6-HpCB	183	183 + 185	C U		125		
2,2',3,4,4',6,6'-HpCB	184		U		62.4		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		62.4		
2,2',3,4',5,5',6-HpCB	187			63.1	62.4	0.98	1.110
2,2',3,4',5,6,6'-HpCB	188		U		62.4		
2,3,3',4,4',5,5'-HpCB	189		U		62.4		
2,3,3',4,4',5,6-HpCB	190		U		62.4		
2,3,3',4,4',5',6-HpCB	191		U		62.4		
2,3,3',4,5,5',6-HpCB	192		U		62.4		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		U		62.4		
2,2',3,3',4,4',5,6-OcCB	195		U		62.4		
2,2',3,3',4,4',5,6'-OcCB	196		U		62.4		
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C U		125		
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C U		125		
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		U		62.4		
2,2',3,3',5,5',6,6'-OcCB	202		U		62.4		
2,2',3,4,4',5,5',6-OcCB	203		U		62.4		
2,2',3,4,4',5,6,6'-OcCB	204		U		62.4		
2,3,3',4,4',5,5',6-OcCB	205		U		62.4		
2,2',3,3',4,4',5,5',6-NoCB	206		U		62.4		
2,2',3,3',4,4',5,6,6'-NoCB	207		U		62.4		
2,2',3,3',4,5,5',6,6'-NoCB	208		U		62.4		
2,2',3,3',4,4',5,5',6,6'-DeCB	209			70.6	62.4	0.73	1.001

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

Approved by: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 26-Nov-2008 12:13:07; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_PCBTF_L11788-6_Form1A_PB8C_428S8_SJ925009.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5419
Sample Collection:
24-Sep-2008 14:22

Form 1A
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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-6 R
Matrix:	SOLID	Sample Size:	3.20 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	03-Nov-2008 Time: 15:18:46	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_428 S: 8
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_428 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	11.8

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls	U	
Total Trichloro Biphenyls	U	
Total Tetrachloro Biphenyls		95.6
Total Pentachloro Biphenyls		2580
Total Hexachloro Biphenyls		3870
Total Heptachloro Biphenyls		295
Total Octachloro Biphenyls	U	
Total Nonachloro Biphenyls	U	
Decachloro Biphenyl		70.6
TOTAL PCBs		6910

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: .xsl; Created: 26-Nov-2008 12:14:50; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-6_Form1AHT_SJ925009.html; Workgroup: WG26833; Design ID: 956]

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.

contact: analytical@axys.com

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5419

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

Sample Collection:	24-Sep-2008 14:22		
Contract No.:	4125	Case & TO No.	08-006 EP08W002469
Matrix:	SOLID	Lab Sample I.D.:	L11788-6 R
Sample Size:	3.20 g (dry)	GC Column ID(s):	SPB OCTYL
Concentration Units:	ng/kg (dry weight basis)	Sample Data Filename(s):	PB8C_428 S: 8

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77		U		62.4	0.0001	0.00e+00	3.12e-03	
3,4,4',5-TeCB	81		U		62.4	0.0003	0.00e+00	9.36e-03	
2,3,3',4,4'-PeCB	105			202	62.4	0.00003	6.06e-03	6.06e-03	
2,3,4,4',5-PeCB	114		U		62.4	0.00003	0.00e+00	9.36e-04	
2,3',4,4',5-PeCB	118			616	62.4	0.00003	1.85e-02	1.85e-02	
2',3,4,4',5-PeCB	123		U		62.4	0.00003	0.00e+00	9.36e-04	
3,3',4,4',5-PeCB	126		U		62.4	0.1	0.00e+00	3.12e+00	
2,3,3',4,4',5-HxCB	156	156 + 157	C	147	125	0.00003	4.41e-03	4.41e-03	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			72.3	62.4	0.00003	2.17e-03	2.17e-03	
3,3',4,4',5,5'-HxCB	169		U		62.4	0.03	0.00e+00	9.36e-01	
2,3,3',4,4',5,5'-HpCB	189		U		62.4	0.00003	0.00e+00	9.36e-04	
					TOTAL TEQ		0.0311	4.10	

(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: Jason MacKenzie QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 26-Nov-2008 12:32:40; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-6_TEQ_SJ925009.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5421
Sample Collection:
24-Sep-2008 14:36

Form 1A
PCB CONGENER ANALYSIS REPORT

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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-7 R
Matrix:	SOLID	Sample Size:	3.28 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	03-Nov-2008 Time: 21:50:47	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_429 S: 3
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_429 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	20.2

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		U		61.0		
3-MoCB	2		U		61.0		
4-MoCB	3			62.1	61.0	3.08	1.001
2,2'-DiCB	4			94.8	61.0	1.61	1.001
2,3-DiCB	5		U		61.0		
2,3'-DiCB	6			84.5	61.0	1.57	1.176
2,4-DiCB	7		U		61.0		
2,4'-DiCB	8			345	61.0	1.50	1.207
2,5-DiCB	9		U		61.0		
2,6-DiCB	10		U		61.0		
3,3'-DiCB	11			221	61.0	1.51	0.969
3,4-DiCB	12	12 + 13	C	147	122	1.64	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		61.0		
4,4'-DiCB	15			1320	61.0	1.50	1.000
2,2',3-TriCB	16			240	61.0	1.02	1.165
2,2',4-TriCB	17			266	61.0	1.05	1.138
2,2',5-TriCB	18	18 + 30	C	507	122	1.03	1.114
2,2',6-TriCB	19			92.4	61.0	1.08	1.000
2,3,3'-TriCB	20	20 + 28	C	2570	122	1.00	0.848
2,3,4-TriCB	21	21 + 33	C	700	122	1.00	0.857
2,3,4'-TriCB	22			950	61.0	1.02	0.872
2,3,5-TriCB	23		U		61.0		
2,3,6-TriCB	24		U		61.0		
2,3',4-TriCB	25			165	61.0	1.00	0.825
2,3',5-TriCB	26	26 + 29	C	310	122	1.01	1.302
2,3',6-TriCB	27			82.4	61.0	0.94	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			1520	61.0	1.00	0.837
2,4',6-TriCB	32			287	61.0	1.05	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		61.0		
3,3',4-TriCB	35			160	61.0	1.03	0.986
3,3',5-TriCB	36		U		61.0		
3,4,4'-TriCB	37			2320	61.0	1.01	1.001
3,4,5-TriCB	38		U		61.0		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		U		61.0		
2,2',3,3'-TeCB	40	40 + 41 + 71	C	1640	183	0.77	1.337
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			772	61.0	0.76	1.312
2,2',3,5-TeCB	43		U		61.0		
2,2',3,5'-TeCB	44	44 + 47 + 65	C	5070	183	0.78	1.285
2,2',3,6-TeCB	45	45 + 51	C	405	122	0.81	1.146
2,2',3,6'-TeCB	46			135	61.0	0.81	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			360	61.0	0.77	1.274
2,2',4,5'-TeCB	49	49 + 69	C	3000	122	0.77	1.260
2,2',4,6-TeCB	50	50 + 53	C	378	122	0.78	1.111
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52			11500	61.0	0.77	1.234
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		61.0		
2,3,3',4-TeCB	55			240	61.0	0.76	0.889
2,3,3',4'-TeCB	56			3530	61.0	0.76	0.904
2,3,3',5-TeCB	57		U		61.0		
2,3,3',5'-TeCB	58			78.6	61.0	0.78	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C	366	183	0.77	1.302
2,3,4,4'-TeCB	60			1450	61.0	0.75	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C	20100	244	0.75	0.875
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			198	61.0	0.74	0.865
2,3,4',6-TeCB	64			2270	61.0	0.78	1.349
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			8060	61.0	0.76	0.884
2,3',4,5-TeCB	67			160	61.0	0.74	0.857
2,3',4,5'-TeCB	68		U		61.0		
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			62.8	61.0	0.76	0.823
2,3',5',6-TeCB	73		U		61.0		
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			3250	61.0	0.75	1.000
3,3',4,5-TeCB	78		U		61.0		
3,3',4,5'-TeCB	79			537	61.0	0.71	0.970
3,3',5,5'-TeCB	80		U		61.0		
3,4,4',5-TeCB	81		Q EMPC	180	61.0	0.79	1.000
2,2',3,3',4-PeCB	82			6270	61.0	1.57	0.933
2,2',3,3',5-PeCB	83	83 + 99	C	33300	122	1.57	0.886
2,2',3,3',6-PeCB	84			11900	61.0	1.57	1.162
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	11100	183	1.56	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	32300	366	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	7940	122	1.55	1.154
2,2',3,4,6'-PeCB	89			253	61.0	1.63	1.181
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	44600	183	1.58	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92			9330	61.0	1.57	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	41800	305	1.57	1.120
2,2',3,5,6'-PeCB	94			146	61.0	1.62	1.102
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			137	61.0	1.57	1.015
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			184	61.0	1.48	1.093
2,2',4,6,6'-PeCB	104		U		61.0		
2,3,3',4,4'-PeCB	105			30800	61.0	1.53	1.000
2,3,3',4,5-PeCB	106		U		61.0		
2,3,3',4',5-PeCB	107	107 + 124	C	2900	122	1.55	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			5060	61.0	1.51	0.997
2,3,3',4',6-PeCB	110	110 + 115	C	110000	122	1.57	0.925
2,3,3',5,5'-PeCB	111		U		61.0		
2,3,3',5,6-PeCB	112		U		61.0		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			1140	61.0	1.49	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			68900	61.0	1.53	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		~~EMPC~~	93.7	61.0	1.83	0.959
2,3',4,5',6-PeCB	121		U		61.0		
2',3,3',4,5-PeCB	122			987	61.0	1.51	1.010
2',3,4,4',5-PeCB	123			1530	61.0	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			704	61.0	1.43	1.000
3,3',4,5,5'-PeCB	127			200	61.0	1.36	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	28600	122	1.25	0.958
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	133000	244	1.24	0.928
2,2',3,3',4,5'-HxCB	130			9100	61.0	1.25	0.913
2,2',3,3',4,6-HxCB	131			1360	61.0	1.26	1.159
2,2',3,3',4,6'-HxCB	132			39700	61.0	1.25	1.173
2,2',3,3',5,5'-HxCB	133			1300	61.0	1.27	1.190
2,2',3,3',5,6-HxCB	134	134 + 143	C	5050	122	1.25	1.139
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	20600	183	1.24	1.103
2,2',3,3',6,6'-HxCB	136			7700	61.0	1.25	1.023
2,2',3,4,4',5-HxCB	137			8210	61.0	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	2380	122	1.23	1.151
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			15000	61.0	1.25	0.903
2,2',3,4,5,6-HxCB	142		U		61.0		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			2880	61.0	1.25	1.121
2,2',3,4,6,6'-HxCB	145		U		61.0		
2,2',3,4',5,5'-HxCB	146			13400	61.0	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C	67600	122	1.25	1.133
2,2',3,4',5,6'-HxCB	148		U		61.0		
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			70.7	61.0	1.26	1.011
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			61.0	61.0	1.34	1.006
2,2',4,4',5,5'-HxCB	153	153 + 168	C	72000	122	1.25	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		61.0		
2,3,3',4,4',5-HxCB	156	156 + 157	C	16200	122	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			13200	61.0	1.25	0.937
2,3,3',4,5,5'-HxCB	159			410	61.0	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		61.0		
2,3,3',4',5,5'-HxCB	162			546	61.0	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			9100	61.0	1.25	0.921
2,3,3',5,5',6-HxCB	165		U		61.0		
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			6040	61.0	1.26	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		61.0		
2,2',3,3',4,4',5-HpCB	170			13500	61.0	1.03	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	3810	122	1.03	1.162
2,2',3,3',4,5,5'-HpCB	172			1940	61.0	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			9820	61.0	1.03	1.133
2,2',3,3',4,5',6-HpCB	175			376	61.0	1.05	1.103
2,2',3,3',4,6,6'-HpCB	176			979	61.0	1.04	1.034
2,2',3,3',4',5,6-HpCB	177			5710	61.0	1.04	1.145
2,2',3,3',5,5',6-HpCB	178			1620	61.0	1.02	1.085
2,2',3,3',5,6,6'-HpCB	179			2840	61.0	1.02	1.010
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	20300	122	1.03	0.910
2,2',3,4,4',5,6-HpCB	181			274	61.0	1.04	1.156
2,2',3,4,4',5,6'-HpCB	182			100	61.0	0.98	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	6120	122	1.03	1.127
2,2',3,4,4',6,6'-HpCB	184		U		61.0		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		61.0		
2,2',3,4',5,5',6-HpCB	187			9880	61.0	1.03	1.110
2,2',3,4',5,6,6'-HpCB	188		U		61.0		
2,3,3',4,4',5,5'-HpCB	189			672	61.0	1.00	1.000
2,3,3',4,4',5,6-HpCB	190			2410	61.0	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			483	61.0	1.03	0.918
2,3,3',4,5,5',6-HpCB	192		U		61.0		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194			2820	61.0	0.88	0.991
2,2',3,3',4,4',5,6-OcCB	195			1150	61.0	0.90	0.945
2,2',3,3',4,4',5,6'-OcCB	196			1410	61.0	0.88	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	474	122	0.88	1.047
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C	3270	122	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			335	61.0	0.85	1.023
2,2',3,3',5,5',6,6'-OcCB	202			597	61.0	0.88	1.000
2,2',3,4,4',5,5',6-OcCB	203			2000	61.0	0.92	0.920
2,2',3,4,4',5,6,6'-OcCB	204		U		61.0		
2,3,3',4,4',5,5',6-OcCB	205			183	61.0	0.88	1.000
2,2',3,3',4,4',5,5',6-NoCB	206			1360	61.0	0.80	1.001
2,2',3,3',4,4',5,6,6'-NoCB	207			171	61.0	0.81	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			390	61.0	0.79	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			633	61.0	0.69	1.001

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

Approved by: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 26-Nov-2008 12:13:07; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_PCBTF_L11788-7_Form1A_PB8C_429S3_SJ925582.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5421
Sample Collection:
24-Sep-2008 14:36

Form 1A

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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-7 R
Matrix:	SOLID	Sample Size:	3.28 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	03-Nov-2008 Time: 21:50:47	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_429 S: 3
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_429 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	20.2

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		62.1
Total Dichloro Biphenyls		2210
Total Trichloro Biphenyls		10200
Total Tetrachloro Biphenyls		63600
Total Pentachloro Biphenyls		421000
Total Hexachloro Biphenyls		474000
Total Heptachloro Biphenyls		80800
Total Octachloro Biphenyls		12200
Total Nonachloro Biphenyls		1920
Decachloro Biphenyl		633
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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: .xsl; Created: 26-Nov-2008 12:14:50; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-7_Form1AHT_SJ925582.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5421

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.:	4125	Sample Collection:	24-Sep-2008 14:36
		Case & TO No.	08-006 EP08W002469
Matrix:	SOLID	Lab Sample I.D.:	L11788-7 R
Sample Size:	3.28 g (dry)	GC Column ID(s):	SPB OCTYL
Concentration Units:	ng/kg (dry weight basis)	Sample Data Filename(s):	PB8C_429 S: 3

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			3250	61.0	0.0001	3.25e-01	3.25e-01	
3,4,4',5-TeCB	81		U		61.0	0.0003	0.00e+00	9.15e-03	
2,3,3',4,4'-PeCB	105			30800	61.0	0.00003	9.24e-01	9.24e-01	
2,3,4,4',5-PeCB	114			1140	61.0	0.00003	3.42e-02	3.42e-02	
2,3',4,4',5-PeCB	118			68900	61.0	0.00003	2.07e+00	2.07e+00	
2',3,4,4',5-PeCB	123			1530	61.0	0.00003	4.59e-02	4.59e-02	
3,3',4,4',5-PeCB	126			704	61.0	0.1	7.04e+01	7.04e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	16200	122	0.00003	4.86e-01	4.86e-01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			6040	61.0	0.00003	1.81e-01	1.81e-01	
3,3',4,4',5,5'-HxCB	169		U		61.0	0.03	0.00e+00	9.15e-01	
2,3,3',4,4',5,5'-HpCB	189			672	61.0	0.00003	2.02e-02	2.02e-02	
					TOTAL TEQ		74.5	75.4	

(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: Jason MacKenzie QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 26-Nov-2008 12:32:40; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-7_TEQ_SJ925582.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5426
Sample Collection:
24-Sep-2008 15:25

Form 1A
PCB CONGENER ANALYSIS REPORT

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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-8 R
Matrix:	SOLID	Sample Size:	3.43 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	03-Nov-2008 Time: 16:23:08	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_428 S: 9
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_428 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	14.9

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		U		58.3		
3-MoCB	2		U		58.3		
4-MoCB	3		U		58.3		
2,2'-DiCB	4		U		58.3		
2,3-DiCB	5		U		58.3		
2,3'-DiCB	6		U		58.3		
2,4-DiCB	7		U		58.3		
2,4'-DiCB	8		U		58.3		
2,5-DiCB	9		U		58.3		
2,6-DiCB	10		U		58.3		
3,3'-DiCB	11		U		58.3		
3,4-DiCB	12	12 + 13	C U		117		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		58.3		
4,4'-DiCB	15		U		58.3		
2,2',3-TriCB	16		U		58.3		
2,2',4-TriCB	17		U		58.3		
2,2',5-TriCB	18	18 + 30	C U		117		
2,2',6-TriCB	19		U		58.3		
2,3,3'-TriCB	20	20 + 28	C U		117		
2,3,4-TriCB	21	21 + 33	C U		117		
2,3,4'-TriCB	22		U		58.3		
2,3,5-TriCB	23		U		58.3		
2,3,6-TriCB	24		U		58.3		
2,3',4-TriCB	25		U		58.3		
2,3',5-TriCB	26	26 + 29	C U		117		
2,3',6-TriCB	27		U		58.3		
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		U		58.3		
2,4',6-TriCB	32		U		58.3		
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		58.3		
3,3',4-TriCB	35		U		58.3		
3,3',5-TriCB	36		U		58.3		
3,4,4'-TriCB	37		U		58.3		
3,4,5-TriCB	38		U		58.3		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		U		58.3		
2,2',3,3'-TeCB	40	40 + 41 + 71	C U		175		
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		U		58.3		
2,2',3,5-TeCB	43		U		58.3		
2,2',3,5'-TeCB	44	44 + 47 + 65	C U		175		
2,2',3,6-TeCB	45	45 + 51	C U		117		
2,2',3,6'-TeCB	46		U		58.3		
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48		U		58.3		
2,2',4,5'-TeCB	49	49 + 69	C U		117		
2,2',4,6-TeCB	50	50 + 53	C U		117		
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52			198	58.3	0.78	1.235
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		58.3		
2,3,3',4-TeCB	55		U		58.3		
2,3,3',4'-TeCB	56		U		58.3		
2,3,3',5-TeCB	57		U		58.3		
2,3,3',5'-TeCB	58		U		58.3		
2,3,3',6-TeCB	59	59 + 62 + 75	C U		175		
2,3,4,4'-TeCB	60		U		58.3		
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C	376	233	0.76	0.874
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63		U		58.3		
2,3,4',6-TeCB	64		U		58.3		
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			113	58.3	0.77	0.884
2,3',4,5-TeCB	67		U		58.3		
2,3',4,5'-TeCB	68		U		58.3		
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		58.3		
2,3',5',6-TeCB	73		U		58.3		
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		58.3		
3,3',4,5-TeCB	78		U		58.3		
3,3',4,5'-TeCB	79		U		58.3		
3,3',5,5'-TeCB	80		U		58.3		
3,4,4',5-TeCB	81		U		58.3		
2,2',3,3',4-PeCB	82			105	58.3	1.49	0.933
2,2',3,3',5-PeCB	83	83 + 99	C	716	117	1.58	0.885
2,2',3,3',6-PeCB	84			135	58.3	1.62	1.163
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	245	175	1.54	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	618	350	1.53	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		117		
2,2',3,4,6'-PeCB	89		U		58.3		
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	803	175	1.56	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92			155	58.3	1.68	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	460	292	1.57	1.120
2,2',3,5,6'-PeCB	94		U		58.3		
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		58.3		
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		58.3		
2,2',4,6,6'-PeCB	104		U		58.3		
2,3,3',4,4'-PeCB	105			530	58.3	1.51	1.000
2,3,3',4,5-PeCB	106		U		58.3		
2,3,3',4',5-PeCB	107	107 + 124	C U		117		
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			105	58.3	1.39	0.997
2,3,3',4',6-PeCB	110	110 + 115	C	1860	117	1.56	0.925
2,3,3',5,5'-PeCB	111		U		58.3		
2,3,3',5,6-PeCB	112		U		58.3		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		U		58.3		
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			1410	58.3	1.57	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		U		58.3		
2,3',4,5',6-PeCB	121		U		58.3		
2',3,3',4,5-PeCB	122		U		58.3		
2',3,4,4',5-PeCB	123		U		58.3		
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		58.3		
3,3',4,5,5'-PeCB	127		U		58.3		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	507	117	1.29	0.958
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	2620	233	1.24	0.928
2,2',3,3',4,5'-HxCB	130			171	58.3	1.22	0.913
2,2',3,3',4,6-HxCB	131		U		58.3		
2,2',3,3',4,6'-HxCB	132			567	58.3	1.18	1.173
2,2',3,3',5,5'-HxCB	133		U		58.3		
2,2',3,3',5,6-HxCB	134	134 + 143	C U		117		
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	279	175	1.32	1.104
2,2',3,3',6,6'-HxCB	136			101	58.3	1.27	1.023
2,2',3,4,4',5-HxCB	137			220	58.3	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 U		117		
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			264	58.3	1.28	0.903
2,2',3,4,5,6-HxCB	142		U		58.3		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		U		58.3		
2,2',3,4,6,6'-HxCB	145		U		58.3		
2,2',3,4',5,5'-HxCB	146			278	58.3	1.23	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C	1060	117	1.23	1.133
2,2',3,4',5,6'-HxCB	148		U		58.3		
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		U		58.3		
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		58.3		
2,2',4,4',5,5'-HxCB	153	153 + 168	C	1670	117	1.23	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		58.3		
2,3,3',4,4',5-HxCB	156	156 + 157	C	301	117	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			264	58.3	1.26	0.938
2,3,3',4,5,5'-HxCB	159		U		58.3		
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		58.3		
2,3,3',4',5,5'-HxCB	162		U		58.3		
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			151	58.3	1.26	0.921
2,3,3',5,5',6-HxCB	165		U		58.3		
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			125	58.3	1.17	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		58.3		
2,2',3,3',4,4',5-HpCB	170			244	58.3	1.02	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C U		117		
2,2',3,3',4,5,5'-HpCB	172		U		58.3		
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			142	58.3	1.12	1.133
2,2',3,3',4,5',6-HpCB	175		U		58.3		
2,2',3,3',4,6,6'-HpCB	176		U		58.3		
2,2',3,3',4',5,6-HpCB	177			88.3	58.3	1.01	1.145
2,2',3,3',5,5',6-HpCB	178		U		58.3		
2,2',3,3',5,6,6'-HpCB	179		U		58.3		
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	351	117	1.02	0.910
2,2',3,4,4',5,6-HpCB	181		U		58.3		
2,2',3,4,4',5,6'-HpCB	182		U		58.3		
2,2',3,4,4',5',6-HpCB	183	183 + 185	C U		117		
2,2',3,4,4',6,6'-HpCB	184		U		58.3		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		58.3		
2,2',3,4',5,5',6-HpCB	187			164	58.3	1.00	1.110
2,2',3,4',5,6,6'-HpCB	188		U		58.3		
2,3,3',4,4',5,5'-HpCB	189		U		58.3		
2,3,3',4,4',5,6-HpCB	190		U		58.3		
2,3,3',4,4',5',6-HpCB	191		U		58.3		
2,3,3',4,5,5',6-HpCB	192		U		58.3		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		U		58.3		
2,2',3,3',4,4',5,6-OcCB	195		U		58.3		
2,2',3,3',4,4',5,6'-OcCB	196		U		58.3		
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C U		117		
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C U		117		
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		U		58.3		
2,2',3,3',5,5',6,6'-OcCB	202		U		58.3		
2,2',3,4,4',5,5',6-OcCB	203		U		58.3		
2,2',3,4,4',5,6,6'-OcCB	204		U		58.3		
2,3,3',4,4',5,5',6-OcCB	205		U		58.3		
2,2',3,3',4,4',5,5',6-NoCB	206		U		58.3		
2,2',3,3',4,4',5,6,6'-NoCB	207		U		58.3		
2,2',3,3',4,5,5',6,6'-NoCB	208		U		58.3		
2,2',3,3',4,4',5,5',6,6'-DeCB	209		U		58.3		

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

Approved by: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 26-Nov-2008 12:13:07; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_PCBTF_L11788-8_Form1A_PB8C_428S9_SJ925011.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5426
Sample Collection:
24-Sep-2008 15:25

Form 1A
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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-8 R
Matrix:	SOLID	Sample Size:	3.43 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	03-Nov-2008 Time: 16:23:08	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_428 S: 9
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_428 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	14.9

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls	U	
Total Trichloro Biphenyls	U	
Total Tetrachloro Biphenyls		687
Total Pentachloro Biphenyls		7140
Total Hexachloro Biphenyls		8580
Total Heptachloro Biphenyls		989
Total Octachloro Biphenyls	U	
Total Nonachloro Biphenyls	U	
Decachloro Biphenyl	U	
TOTAL PCBs		17400

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: .xsl; Created: 26-Nov-2008 12:14:50; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-8_Form1AHT_SJ925011.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5426

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.:	4125	Sample Collection:	24-Sep-2008 15:25
		Case & TO No.	08-006 EP08W002469
Matrix:	SOLID	Lab Sample I.D.:	L11788-8 R
Sample Size:	3.43 g (dry)	GC Column ID(s):	SPB OCTYL
Concentration Units:	ng/kg (dry weight basis)	Sample Data Filename(s):	PB8C_428 S: 9

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77		U		58.3	0.0001	0.00e+00	2.92e-03	
3,4,4',5-TeCB	81		U		58.3	0.0003	0.00e+00	8.75e-03	
2,3,3',4,4'-PeCB	105			530	58.3	0.00003	1.59e-02	1.59e-02	
2,3,4,4',5-PeCB	114		U		58.3	0.00003	0.00e+00	8.75e-04	
2,3',4,4',5-PeCB	118			1410	58.3	0.00003	4.23e-02	4.23e-02	
2',3,4,4',5-PeCB	123		U		58.3	0.00003	0.00e+00	8.75e-04	
3,3',4,4',5-PeCB	126		U		58.3	0.1	0.00e+00	2.92e+00	
2,3,3',4,4',5-HxCB	156	156 + 157	C	301	117	0.00003	9.03e-03	9.03e-03	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			125	58.3	0.00003	3.75e-03	3.75e-03	
3,3',4,4',5,5'-HxCB	169		U		58.3	0.03	0.00e+00	8.75e-01	
2,3,3',4,4',5,5'-HpCB	189		U		58.3	0.00003	0.00e+00	8.75e-04	
					TOTAL TEQ		0.0710	3.87	

(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: Jason MacKenzie QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 26-Nov-2008 12:32:40; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-8_TEQ_SJ925011.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
B5431
Sample Collection:
25-Sep-2008 09:45

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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-9 R
Matrix:	SOLID	Sample Size:	3.39 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	04-Nov-2008 Time: 10:50:59	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_430 S: 4
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_430 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	16.7

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		U		599		
3-MoCB	2		U		599		
4-MoCB	3		U		599		
2,2'-DiCB	4		U		599		
2,3-DiCB	5		U		599		
2,3'-DiCB	6		U		599		
2,4-DiCB	7		U		599		
2,4'-DiCB	8		U		599		
2,5-DiCB	9		U		599		
2,6-DiCB	10		U		599		
3,3'-DiCB	11		U		599		
3,4-DiCB	12	12 + 13	C U		1200		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		599		
4,4'-DiCB	15			2070	599	1.52	1.001
2,2',3-TriCB	16		U		599		
2,2',4-TriCB	17		U		599		
2,2',5-TriCB	18	18 + 30	C U		1200		
2,2',6-TriCB	19		U		599		
2,3,3'-TriCB	20	20 + 28	C	4920	1200	1.04	0.848
2,3,4-TriCB	21	21 + 33	C U		1200		
2,3,4'-TriCB	22			1490	599	1.02	0.871
2,3,5-TriCB	23		U		599		
2,3,6-TriCB	24		U		599		
2,3',4-TriCB	25		U		599		
2,3',5-TriCB	26	26 + 29	C U		1200		
2,3',6-TriCB	27		U		599		
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			7460	599	1.04	0.837
2,4',6-TriCB	32		U		599		
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		599		
3,3',4-TriCB	35			712	599	1.01	0.985
3,3',5-TriCB	36		U		599		
3,4,4'-TriCB	37			6340	599	1.01	1.001
3,4,5-TriCB	38		U		599		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		U		599		
2,2',3,3'-TeCB	40	40 + 41 + 71	C	12400	1800	0.78	1.339
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			7150	599	0.80	1.314
2,2',3,5-TeCB	43		U		599		
2,2',3,5'-TeCB	44	44 + 47 + 65	C	90500	1800	0.78	1.287
2,2',3,6-TeCB	45	45 + 51	C U		1200		
2,2',3,6'-TeCB	46		U		599		
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			2540	599	0.80	1.275
2,2',4,5'-TeCB	49	49 + 69	C	91400	1200	0.78	1.261
2,2',4,6-TeCB	50	50 + 53	C	1900	1200	0.81	1.112
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52			502000	599	0.78	1.236
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		599		
2,3,3',4-TeCB	55			3840	599	0.74	0.889
2,3,3',4'-TeCB	56			65200	599	0.76	0.904
2,3,3',5-TeCB	57			2040	599	0.70	0.845
2,3,3',5'-TeCB	58			2650	599	0.71	0.850
2,3,3',6-TeCB	59	59 + 62 + 75	C	1840	1800	0.77	1.304
2,3,4,4'-TeCB	60			18800	599	0.75	0.910
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C	874000	2390	0.75	0.875
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			4870	599	0.75	0.864
2,3,4',6-TeCB	64			77100	599	0.78	1.350
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			196000	599	0.75	0.884
2,3',4,5-TeCB	67			1430	599	0.74	0.857
2,3',4,5'-TeCB	68		U		599		
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			701	599	0.72	0.823
2,3',5',6-TeCB	73		U		599		
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			33200	599	0.76	1.000
3,3',4,5-TeCB	78		U		599		
3,3',4,5'-TeCB	79			21200	599	0.71	0.969
3,3',5,5'-TeCB	80		U		599		
3,4,4',5-TeCB	81		~~EMPC~~	2770	599	0.80	1.000
2,2',3,3',4-PeCB	82			177000	599	1.56	0.933
2,2',3,3',5-PeCB	83	83 + 99	C	1190000	1200	1.56	0.886
2,2',3,3',6-PeCB	84			252000	599	1.57	1.163
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	386000	1800	1.57	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C ~~E~~	1440000 *			
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C	199000	1200	1.57	1.154
2,2',3,4,6'-PeCB	89			3500	599	1.64	1.182
2,2',3,4',5-PeCB	90	90 + 101 + 113	C ~~E~~	1990000			
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92			360000	599	1.56	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	1250000	2990	1.57	1.120
2,2',3,5,6'-PeCB	94			3040	599	1.55	1.102
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			1890	599	1.69	1.015
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				

* Transfer from dilution

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			3620	599	1.63	1.093
2,2',4,6,6'-PeCB	104		U		599		
2,3,3',4,4'-PeCB	105			1040000	599	1.53	1.000
2,3,3',4,5-PeCB	106		U		599		
2,3,3',4',5-PeCB	107	107 + 124	C	105000	1200	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			137000	599	1.52	0.997
2,3,3',4',6-PeCB	110	110 + 115	C	2810000			
2,3,3',5,5'-PeCB	111		U		599		
2,3,3',5,6-PeCB	112		U		599		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			45700	599	1.52	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	2290000			
2,3',4,4',5-PeCB	118						
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			744	599	1.47	0.959
2,3',4,5',6-PeCB	121		U		599		
2',3,3',4,5-PeCB	122			27600	599	1.51	1.010
2',3,4,4',5-PeCB	123			47300	599	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			7960	599	1.42	1.000
3,3',4,5,5'-PeCB	127		U		599		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	539000	1200	1.25	0.958
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	2910000			
2,2',3,3',4,5'-HxCB	130			169000	599	1.24	0.913
2,2',3,3',4,6-HxCB	131			26800	599	1.26	1.159
2,2',3,3',4,6'-HxCB	132			858000	599	1.25	1.174
2,2',3,3',5,5'-HxCB	133			23900	599	1.24	1.191
2,2',3,3',5,6-HxCB	134	134 + 143	C	108000	1200	1.24	1.139
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	404000	1800	1.25	1.103
2,2',3,3',6,6'-HxCB	136			180000	599	1.24	1.023
2,2',3,4,4',5-HxCB	137			196000	599	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	46300	1200	1.26	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			327000	599	1.25	0.903
2,2',3,4,5,6-HxCB	142		U		599		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			52500	599	1.27	1.121
2,2',3,4,6,6'-HxCB	145			750	599	1.18	1.033
2,2',3,4',5,5'-HxCB	146			257000	599	1.24	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C	1380000	1200	1.25	1.133
2,2',3,4',5,6'-HxCB	148			998	599	1.28	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			1500	599	1.27	1.012
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			1620	599	1.25	1.006
2,2',4,4',5,5'-HxCB	153	153 + 168	C	1680000	1200	1.25	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		599		
2,3,3',4,4',5-HxCB	156	156 + 157	C	394000	1200	1.24	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			249000	599	1.25	0.938
2,3,3',4,5,5'-HxCB	159			4850	599	1.24	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		599		
2,3,3',4',5,5'-HxCB	162			9690	599	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			149000	599	1.26	0.921
2,3,3',5,5',6-HxCB	165		U		599		
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			126000	599	1.24	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		599		
2,2',3,3',4,4',5-HpCB	170			201000	599	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	52900	1200	1.03	1.162
2,2',3,3',4,5,5'-HpCB	172			25300	599	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			113000	599	1.03	1.133
2,2',3,3',4,5',6-HpCB	175			3650	599	1.00	1.102
2,2',3,3',4,6,6'-HpCB	176			11800	599	1.01	1.034
2,2',3,3',4',5,6-HpCB	177			68900	599	1.03	1.145
2,2',3,3',5,5',6-HpCB	178			16700	599	1.03	1.085
2,2',3,3',5,6,6'-HpCB	179			30900	599	1.04	1.009
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	252000	1200	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			5470	599	1.06	1.156
2,2',3,4,4',5,6'-HpCB	182			1460	599	1.06	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	69500	1200	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184		U		599		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		599		
2,2',3,4',5,5',6-HpCB	187			103000	599	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		U		599		
2,3,3',4,4',5,5'-HpCB	189			9830	599	1.01	1.001
2,3,3',4,4',5,6-HpCB	190			32200	599	1.05	0.947
2,3,3',4,4',5',6-HpCB	191			5910	599	1.04	0.918
2,3,3',4,5,5',6-HpCB	192		U		599		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194			17900	599	0.89	0.991
2,2',3,3',4,4',5,6-OcCB	195			6930	599	0.89	0.945
2,2',3,3',4,4',5,6'-OcCB	196			8220	599	0.88	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	3280	1200	0.90	1.047
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C	23900	1200	0.90	1.114
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			2080	599	0.87	1.023
2,2',3,3',5,5',6,6'-OcCB	202			5140	599	0.89	1.000
2,2',3,4,4',5,5',6-OcCB	203			15800	599	0.90	0.919
2,2',3,4,4',5,6,6'-OcCB	204		U		599		
2,3,3',4,4',5,5',6-OcCB	205			1010	599	0.95	1.000
2,2',3,3',4,4',5,5',6-NoCB	206			12200	599	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			1560	599	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			3730	599	0.80	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			5270	599	0.71	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; EMPC = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener; E = exceeds calibrated linear range, see dilution data.

Approved by: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 26-Nov-2008 12:13:07; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_PCBTF_L11788-9_Form1A_PB8C_430S4_SJ925833.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5431
Sample Collection:
25-Sep-2008 09:45

Form 1A
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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-9 R
Matrix:	SOLID	Sample Size:	3.39 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	04-Nov-2008 Time: 10:50:59	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename(s):	PB8C_430 S: 4, PB8C_437 S: 10
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_430 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	16.7

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls		2070
Total Trichloro Biphenyls		20900
Total Tetrachloro Biphenyls		2010000
Total Pentachloro Biphenyls		1.38E+07
Total Hexachloro Biphenyls		1.01E+07
Total Heptachloro Biphenyls		1000000
Total Octachloro Biphenyls		84300
Total Nonachloro Biphenyls		17500
Decachloro Biphenyl		5270
TOTAL PCBs		2.70E+07

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: .xsl; Created: 26-Nov-2008 14:42:32; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-9_Form1AHT_SJ925833.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5431

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.:	4125	Sample Collection:	25-Sep-2008 09:45
		Case & TO No.	08-006 EP08W002469
Matrix:	SOLID	Lab Sample I.D.:	L11788-9 R
Sample Size:	3.39 g (dry)	GC Column ID(s):	SPB OCTYL
Concentration Units:	ng/kg (dry weight basis)	Sample Data Filename(s):	PB8C_430 S: 4 PB8C_437 S: 10

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			33200	599	0.0001	3.32e+00	3.32e+00	
3,4,4',5-TeCB	81		U		599	0.0003	0.00e+00	8.99e-02	
2,3,3',4,4'-PeCB	105			1040000	599	0.00003	3.12e+01	3.12e+01	
2,3,4,4',5-PeCB	114			45700	599	0.00003	1.37e+00	1.37e+00	
2,3',4,4',5-PeCB	118			2280000	6290	0.00003	6.84e+01	6.84e+01	
2',3,4,4',5-PeCB	123			47300	599	0.00003	1.42e+00	1.42e+00	
3,3',4,4',5-PeCB	126			7960	599	0.1	7.96e+02	7.96e+02	
2,3,3',4,4',5-HxCB	156	156 + 157	C	394000	1200	0.00003	1.18e+01	1.18e+01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			126000	599	0.00003	3.78e+00	3.78e+00	
3,3',4,4',5,5'-HxCB	169		U		599	0.03	0.00e+00	8.99e+00	
2,3,3',4,4',5,5'-HpCB	189			9830	599	0.00003	2.95e-01	2.95e-01	
					TOTAL TEQ		918	927	

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 26-Nov-2008 12:32:40; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-9_TEQ_SJ925833.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
B5446
Sample Collection:
25-Sep-2008 14:05

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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-11 R
Matrix:	SOLID	Sample Size:	3.31 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	04-Nov-2008 Time: 03:12:37	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_429 S: 8
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_429 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	6.77

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1			3520	625	2.94	1.000
3-MoCB	2			813	625	3.15	0.988
4-MoCB	3			4220	625	3.04	1.001
2,2'-DiCB	4			49500	625	1.47	1.000
2,3-DiCB	5			1100	625	1.48	1.199
2,3'-DiCB	6			27400	625	1.48	1.177
2,4-DiCB	7			2760	625	1.49	1.159
2,4'-DiCB	8			109000	625	1.49	1.209
2,5-DiCB	9			4830	625	1.44	1.147
2,6-DiCB	10			4030	625	1.52	1.013
3,3'-DiCB	11			2120	625	1.56	0.969
3,4-DiCB	12	12 + 13	C	28000	1250	1.52	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		625		
4,4'-DiCB	15			493000	625	1.49	1.001
2,2',3-TriCB	16			126000	625	1.05	1.166
2,2',4-TriCB	17			173000	625	1.05	1.139
2,2',5-TriCB	18	18 + 30	C	335000	1250	1.05	1.115
2,2',6-TriCB	19			33200	625	1.04	1.001
2,3,3'-TriCB	20	20 + 28	C	1730000 *			
2,3,4-TriCB	21	21 + 33	C	292000	1250	1.01	0.857
2,3,4'-TriCB	22			587000	625	1.01	0.872
2,3,5-TriCB	23		U		625		
2,3,6-TriCB	24			6990	625	1.00	1.159
2,3',4-TriCB	25			65400	625	1.00	0.826
2,3',5-TriCB	26	26 + 29	C	171000	1250	1.01	1.302
2,3',6-TriCB	27			36300	625	1.04	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			880000	625	1.01	0.837
2,4',6-TriCB	32			159000	625	0.98	1.199
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			3010	625	0.92	1.276
3,3',4-TriCB	35			29000	625	1.01	0.986
3,3',5-TriCB	36		U		625		
3,4,4'-TriCB	37			738000	625	1.01	1.001
3,4,5-TriCB	38		U		625		

* Transfer from dilution

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			4870	625	0.92	0.948
2,2',3,3'-TeCB	40	40 + 41 + 71	C	465000	1870	0.78	1.337
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			240000	625	0.78	1.312
2,2',3,5-TeCB	43			28300	625	0.78	1.247
2,2',3,5'-TeCB	44	44 + 47 + 65	C	1010000	1870	0.79	1.285
2,2',3,6-TeCB	45	45 + 51	C	82100	1250	0.79	1.145
2,2',3,6'-TeCB	46			22200	625	0.77	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			150000	625	0.78	1.274
2,2',4,5'-TeCB	49	49 + 69	C	574000	1250	0.78	1.260
2,2',4,6-TeCB	50	50 + 53	C	66200	1250	0.79	1.111
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		~~E~~ 1540000 *				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		625		
2,3,3',4-TeCB	55			40800	1030	0.77	0.889
2,3,3',4'-TeCB	56			758000	1010	0.77	0.905
2,3,3',5-TeCB	57			6010	946	0.76	0.844
2,3,3',5'-TeCB	58			6370	957	0.72	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C	79200	1870	0.78	1.302
2,3,4,4'-TeCB	60			444000	997	0.76	0.910
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C~~E~~ 3070000 *				
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			47600	936	0.77	0.864
2,3,4',6-TeCB	64			472000	625	0.78	1.349
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		~~E~~ 1490000 *				
2,3',4,5-TeCB	67			41700	853	0.76	0.857
2,3',4,5'-TeCB	68			2380	931	0.73	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			5340	899	0.73	0.823
2,3',5',6-TeCB	73		U		625		
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			224000	944	0.77	1.000
3,3',4,5-TeCB	78		U		1020		
3,3',4,5'-TeCB	79			30600	837	0.72	0.970
3,3',5,5'-TeCB	80		U		893		
3,4,4',5-TeCB	81			11200	968	0.77	1.000
2,2',3,3',4-PeCB	82			369000	625 *	1.57	0.934
2,2',3,3',5-PeCB	83	83 + 99	C~~E~~ 645000				
2,2',3,3',6-PeCB	84			536000	625	1.57	1.162
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	531000	1870	1.57	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C~~E~~ 88300 *				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C	276000	1250	1.57	1.155
2,2',3,4,6'-PeCB	89			13900	625	1.61	1.181
2,2',3,4',5-PeCB	90	90 + 101 + 113	C~~E~~ 113000 *				
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92			441000	625	1.57	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C~~E~~ 67400 *				
2,2',3,5,6'-PeCB	94			5600	625	1.58	1.102
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			4660	625	1.53	1.015
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			5720	625	1.62	1.093
2,2',4,6,6'-PeCB	104		U		625		
2,3,3',4,4'-PeCB	105		~~E~~	63200 +			
2,3,3',4,5-PeCB	106		U		625		
2,3,3',4',5-PeCB	107	107 + 124	C	158000	1250	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			247000	625	1.51	0.997
2,3,3',4',6-PeCB	110	110 + 115	C~~E~~	160000 +			
2,3,3',5,5'-PeCB	111		U		625		
2,3,3',5,6-PeCB	112		U		625		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			87700	625	1.50	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	145000 +			
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			1540	625	1.54	0.958
2,3',4,5',6-PeCB	121		U		625		
2',3,3',4,5-PeCB	122			46800	625	1.46	1.010
2',3,4,4',5-PeCB	123			65200	625	1.45	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			17000	625	1.41	1.000
3,3',4,5,5'-PeCB	127		U		625		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	749000	1250	1.25	0.958
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C~~E~~	425000 +			
2,2',3,3',4,5'-HxCB	130			229000	625	1.24	0.913
2,2',3,3',4,6-HxCB	131			42200	625	1.28	1.158
2,2',3,3',4,6'-HxCB	132			1140000	625	1.25	1.173
2,2',3,3',5,5'-HxCB	133			31100	625	1.24	1.190
2,2',3,3',5,6-HxCB	134	134 + 143	C	149000	1250	1.25	1.139
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	526000	1870	1.25	1.103
2,2',3,3',6,6'-HxCB	136			208000	625	1.25	1.023
2,2',3,4,4',5-HxCB	137			236000	625	1.24	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	57900	1250	1.25	1.152
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			467000	625	1.26	0.903
2,2',3,4,5,6-HxCB	142		U		625		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			82700	625	1.25	1.121
2,2',3,4,6,6'-HxCB	145			775	625	1.32	1.033
2,2',3,4',5,5'-HxCB	146			347000	625	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C	1740000	1250	1.25	1.132
2,2',3,4',5,6'-HxCB	148			1160	625	1.27	1.083
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			1450	625	1.24	1.012
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			1690	625	1.28	1.006
2,2',4,4',5,5'-HxCB	153	153 + 168	C~~E~~	245000 +			
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		625		
2,3,3',4,4',5-HxCB	156	156 + 157	C	580000	1250	1.24	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			381000	625	1.25	0.938
2,3,3',4,5,5'-HxCB	159			8790	625	1.26	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		625		
2,3,3',4',5,5'-HxCB	162			13100	625	1.20	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			216000	625	1.25	0.921
2,3,3',5,5',6-HxCB	165		U		625		
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			182000	625	1.25	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		625		
2,2',3,3',4,4',5-HpCB	170			307000	625	1.03	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	85600	1250	1.03	1.162
2,2',3,3',4,5,5'-HpCB	172			40400	625	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			191000	625	1.03	1.132
2,2',3,3',4,5',6-HpCB	175			7380	625	1.06	1.102
2,2',3,3',4,6,6'-HpCB	176			19500	625	1.04	1.034
2,2',3,3',4',5,6-HpCB	177			114000	625	1.02	1.145
2,2',3,3',5,5',6-HpCB	178			28900	625	1.03	1.085
2,2',3,3',5,6,6'-HpCB	179			51100	625	1.03	1.009
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	421000	1250	1.03	0.911
2,2',3,4,4',5,6-HpCB	181			7150	625	1.02	1.156
2,2',3,4,4',5,6'-HpCB	182			1760	625	1.06	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	123000	1250	1.04	1.126
2,2',3,4,4',6,6'-HpCB	184		U		625		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		625		
2,2',3,4',5,5',6-HpCB	187			169000	625	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		U		625		
2,3,3',4,4',5,5'-HpCB	189			16200	625	1.02	1.000
2,3,3',4,4',5,6-HpCB	190			54500	625	1.03	0.947
2,3,3',4,4',5',6-HpCB	191			10500	625	1.03	0.918
2,3,3',4,5,5',6-HpCB	192		U		625		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194			45300	625	0.89	0.991
2,2',3,3',4,4',5,6-OcCB	195			19300	625	0.88	0.946
2,2',3,3',4,4',5,6'-OcCB	196			20300	625	0.89	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	6930	1250	0.90	1.046
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C	46600	1250	0.90	1.114
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			4160	625	0.90	1.023
2,2',3,3',5,5',6,6'-OcCB	202			8130	625	0.89	1.000
2,2',3,4,4',5,5',6-OcCB	203			30700	625	0.89	0.920
2,2',3,4,4',5,6,6'-OcCB	204		U		625		
2,3,3',4,4',5,5',6-OcCB	205			2660	625	0.85	1.001
2,2',3,3',4,4',5,5',6-NoCB	206			18600	625	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			2030	625	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			5030	625	0.74	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			4010	625	0.67	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; E = exceeds calibrated linear range, see dilution data.

Approved by: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 26-Nov-2008 12:13:07; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_PCBTF_L11788-11_Form1A_PB8C_429S8_SJ925592.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5446
Sample Collection:
25-Sep-2008 14:05

Form 1A
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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-11 R
Matrix:	SOLID	Sample Size:	3.31 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	04-Nov-2008 Time: 03:12:37	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename(s):	PB8C_429 S: 8, PB8C_437 S: 6
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_429 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	6.77

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		8550
Total Dichloro Biphenyls		722000
Total Trichloro Biphenyls		5370000
Total Tetrachloro Biphenyls		1.09E+07
Total Pentachloro Biphenyls		3510000
Total Hexachloro Biphenyls		8060000
Total Heptachloro Biphenyls		1650000
Total Octachloro Biphenyls		184000
Total Nonachloro Biphenyls		25700
Decachloro Biphenyl		4010
TOTAL PCBs		3.04E+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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: .xsl; Created: 26-Nov-2008 12:14:50; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-11_Form1AHT_SJ925592.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5446

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.:	4125	Sample Collection:	25-Sep-2008 14:05
		Case & TO No.	08-006 EP08W002469
Matrix:	SOLID	Lab Sample I.D.:	L11788-11 R
Sample Size:	3.31 g (dry)	GC Column ID(s):	SPB OCTYL
Concentration Units:	ng/kg (dry weight basis)	Sample Data Filename(s):	PB8C_429 S: 8 PB8C_437 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			224000	944	0.0001	2.24e+01	2.24e+01	
3,4,4',5-TeCB	81			11200	968	0.0003	3.36e+00	3.36e+00	
2,3,3',4,4'-PeCB	105			63200	6560	0.00003	1.90e+00	1.90e+00	
2,3,4,4',5-PeCB	114			87700	625	0.00003	2.63e+00	2.63e+00	
2,3',4,4',5-PeCB	118			145000	6560	0.00003	4.35e+00	4.35e+00	
2',3,4,4',5-PeCB	123			65200	625	0.00003	1.96e+00	1.96e+00	
3,3',4,4',5-PeCB	126			17000	625	0.1	1.70e+03	1.70e+03	
2,3,3',4,4',5-HxCB	156	156 + 157	C	580000	1250	0.00003	1.74e+01	1.74e+01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			182000	625	0.00003	5.46e+00	5.46e+00	
3,3',4,4',5,5'-HxCB	169		U		625	0.03	0.00e+00	9.38e+00	
2,3,3',4,4',5,5'-HpCB	189			16200	625	0.00003	4.86e-01	4.86e-01	
					TOTAL TEQ		1760	1770	

(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: Jason MacKenzie QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 26-Nov-2008 12:32:40; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-11_TEQ_SJ925592.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
B5432
Sample Collection:
25-Sep-2008 09:15

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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-10 R
Matrix:	SOLID	Sample Size:	3.43 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	04-Nov-2008 Time: 04:16:57	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename:	PB8C_429 S: 9
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_429 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	24.5

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		U		579		
3-MoCB	2		U		579		
4-MoCB	3		U		579		
2,2'-DiCB	4			2920	579	1.41	1.001
2,3-DiCB	5		U		579		
2,3'-DiCB	6			1340	579	1.50	1.177
2,4-DiCB	7		U		579		
2,4'-DiCB	8			3030	579	1.56	1.210
2,5-DiCB	9		U		579		
2,6-DiCB	10		U		579		
3,3'-DiCB	11		U		579		
3,4-DiCB	12	12 + 13	C	2700	1160	1.57	0.984
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		579		
4,4'-DiCB	15			46400	579	1.48	1.001
2,2',3-TriCB	16			7550	579	1.02	1.165
2,2',4-TriCB	17			12500	579	1.02	1.139
2,2',5-TriCB	18	18 + 30	C	30800	1160	1.06	1.114
2,2',6-TriCB	19			2950	579	1.02	1.001
2,3,3'-TriCB	20	20 + 28	C	151000	1160	1.00	0.848
2,3,4-TriCB	21	21 + 33	C	9020	1160	1.00	0.857
2,3,4'-TriCB	22			28900	579	1.01	0.871
2,3,5-TriCB	23		U		579		
2,3,6-TriCB	24		U		579		
2,3',4-TriCB	25			8390	579	1.01	0.825
2,3',5-TriCB	26	26 + 29	C	19400	1160	1.01	1.302
2,3',6-TriCB	27			3730	579	1.02	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			107000	579	1.00	0.837
2,4',6-TriCB	32			10300	579	1.00	1.198
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		579		
3,3',4-TriCB	35			2130	579	0.98	0.985
3,3',5-TriCB	36		U		579		
3,4,4'-TriCB	37			81200	579	1.01	1.001
3,4,5-TriCB	38		U		579		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG[1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			1000	579	1.02	0.947
2,2',3,3'-TeCB	40	40 + 41 + 71	C	98100	1740	0.77	1.338
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			68000	579	0.78	1.313
2,2',3,5-TeCB	43			8630	579	0.77	1.248
2,2',3,5'-TeCB	44	44 + 47 + 65	C	537000	1740	0.78	1.285
2,2',3,6-TeCB	45	45 + 51	C	18200	1160	0.77	1.146
2,2',3,6'-TeCB	46			3830	579	0.80	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			31600	579	0.78	1.275
2,2',4,5'-TeCB	49	49 + 69	C	385000	1160	0.78	1.260
2,2',4,6-TeCB	50	50 + 53	C	26500	1160	0.78	1.111
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		~~E~~	1490000 *			
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		579		
2,3,3',4-TeCB	55			12100	579	0.73	0.889
2,3,3',4'-TeCB	56			221000	579	0.76	0.905
2,3,3',5-TeCB	57			1820	579	0.75	0.844
2,3,3',5'-TeCB	58			4360	579	0.69	0.850
2,3,3',6-TeCB	59	59 + 62 + 75	C	20800	1740	0.77	1.302
2,3,4,4'-TeCB	60			81200	579	0.76	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C ~~E~~	2180000 *			
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			15400	579	0.75	0.864
2,3,4',6-TeCB	64			207000	579	0.78	1.349
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			713000	579	0.75	0.884
2,3',4,5-TeCB	67			9160	579	0.73	0.857
2,3',4,5'-TeCB	68			3370	579	0.74	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			5320	579	0.77	0.823
2,3',5',6-TeCB	73		U		579		
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			54900	579	0.76	1.000
3,3',4,5-TeCB	78		U		579		
3,3',4,5'-TeCB	79			30300	579	0.73	0.970
3,3',5,5'-TeCB	80		U		579		
3,4,4',5-TeCB	81		Q ~~EMPC~~	5080	579	0.76	1.000
2,2',3,3',4-PeCB	82			338000	579	1.57	0.934
2,2',3,3',5-PeCB	83	83 + 99	C ~~E~~	2480000 *			
2,2',3,3',6-PeCB	84			581000	579	1.57	1.162
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	669000	1740	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	380000	1160	1.57	1.155
2,2',3,4,6'-PeCB	89			10700	579	1.53	1.182
2,2',3,4',5-PeCB	90	90 + 101 + 113	C ~~E~~	3400000 *			
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92			542000	579	1.57	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C ~~E~~	2250000 *			
2,2',3,5,6'-PeCB	94			7270	579	1.53	1.102
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			5300	579	1.56	1.015
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				

* Transfer from dilution

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG[1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			9930	579	1.58	1.093
2,2',4,6,6'-PeCB	104		U		579		
2,3,3',4,4'-PeCB	105		~~E~~ 1810000 +				
2,3,3',4,5-PeCB	106		U		579		
2,3,3',4',5-PeCB	107	107 + 124	C	155000	1160	1.53	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			249000	579	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C~~E~~ 4540000 +				
2,3,3',5,5'-PeCB	111		U		579		
2,3,3',5,6-PeCB	112		U		579		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			90500	579	1.52	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~~ 4070000 +				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120	Q	~~EMPC~~	1240	579	1.09	0.958
2,3',4,5',6-PeCB	121		U		579		
2',3,3',4,5-PeCB	122			42300	579	1.51	1.010
2',3,4,4',5-PeCB	123			67500	579	1.52	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	Q	~~EMPC~~	5770	579	1.44	1.000
3,3',4,5,5'-PeCB	127		U		579		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	777000	1160	1.25	0.958
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C~~E~~ 4510000 +				
2,2',3,3',4,5'-HxCB	130			233000	579	1.25	0.913
2,2',3,3',4,6-HxCB	131			41700	579	1.25	1.158
2,2',3,3',4,6'-HxCB	132			1240000	579	1.25	1.173
2,2',3,3',5,5'-HxCB	133			32600	579	1.26	1.191
2,2',3,3',5,6-HxCB	134	134 + 143	C	156000	1160	1.25	1.140
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	596000	1740	1.25	1.103
2,2',3,3',6,6'-HxCB	136			266000	579	1.24	1.023
2,2',3,4,4',5-HxCB	137			244000	579	1.24	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	71700	1160	1.25	1.152
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			422000	579	1.25	0.903
2,2',3,4,5,6-HxCB	142		U		579		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			76100	579	1.25	1.121
2,2',3,4,6,6'-HxCB	145			998	579	1.28	1.033
2,2',3,4',5,5'-HxCB	146			336000	579	1.24	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C	2030000	1160	1.25	1.132
2,2',3,4',5,6'-HxCB	148			1650	579	1.27	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			2410	579	1.27	1.012
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			2440	579	1.21	1.006
2,2',4,4',5,5'-HxCB	153	153 + 168	C~~E~~ 2660000 +				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		579		
2,3,3',4,4',5-HxCB	156	156 + 157	C	568000	1160	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			333000	579	1.25	0.938
2,3,3',4,5,5'-HxCB	159			6110	579	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		579		
2,3,3',4',5,5'-HxCB	162			12600	579	1.27	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			223000	579	1.26	0.921
2,3,3',5,5',6-HxCB	165		U		579		
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			164000	579	1.25	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		579		
2,2',3,3',4,4',5-HpCB	170			248000	579	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	70000	1160	1.02	1.162
2,2',3,3',4,5,5'-HpCB	172			29900	579	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			157000	579	1.04	1.132
2,2',3,3',4,5',6-HpCB	175			4610	579	1.02	1.102
2,2',3,3',4,6,6'-HpCB	176			16600	579	1.04	1.034
2,2',3,3',4',5,6-HpCB	177			95600	579	1.04	1.145
2,2',3,3',5,5',6-HpCB	178			23200	579	1.02	1.085
2,2',3,3',5,6,6'-HpCB	179			46000	579	1.03	1.009
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	315000	1160	1.03	0.910
2,2',3,4,4',5,6-HpCB	181			7490	579	1.04	1.156
2,2',3,4,4',5,6'-HpCB	182			1750	579	1.02	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	91300	1160	1.03	1.127
2,2',3,4,4',6,6'-HpCB	184		U		579		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		579		
2,2',3,4',5,5',6-HpCB	187			134000	579	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		U		579		
2,3,3',4,4',5,5'-HpCB	189			12900	579	1.01	1.000
2,3,3',4,4',5,6-HpCB	190			45300	579	1.03	0.947
2,3,3',4,4',5',6-HpCB	191			7000	579	1.05	0.918
2,3,3',4,5,5',6-HpCB	192		U		579		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194			24400	579	0.89	0.991
2,2',3,3',4,4',5,6-OcCB	195			11100	579	0.86	0.945
2,2',3,3',4,4',5,6'-OcCB	196			10500	579	0.92	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	4170	1160	0.88	1.046
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C	27400	1160	0.89	1.114
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			2310	579	0.90	1.023
2,2',3,3',5,5',6,6'-OcCB	202			5170	579	0.89	1.000
2,2',3,4,4',5,5',6-OcCB	203			18700	579	0.89	0.920
2,2',3,4,4',5,6,6'-OcCB	204		U		579		
2,3,3',4,4',5,5',6-OcCB	205			1540	579	0.88	1.000
2,2',3,3',4,4',5,5',6-NoCB	206			10500	579	0.76	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			1100	579	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			2840	579	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			2680	579	0.73	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; EMPC = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener; E = exceeds calibrated linear range, see dilution data.

Approved by: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 26-Nov-2008 12:13:07; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_PCBTF_L11788-10_Form1A_PB8C_429S9_SJ925594.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5432
Sample Collection:
25-Sep-2008 09:15

Form 1A
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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-10 R
Matrix:	SOLID	Sample Size:	3.43 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	04-Nov-2008 Time: 04:16:57	GC Column ID:	SPB OCTYL
Extract Volume (uL):	200	Sample Data Filename(s):	PB8C_429 S: 9, PB8C_437 S: 7
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB8C_429 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	24.5

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls		56400
Total Trichloro Biphenyls		476000
Total Tetrachloro Biphenyls		6230000
Total Pentachloro Biphenyls		2.38E+07
Total Hexachloro Biphenyls		1.50E+07
Total Heptachloro Biphenyls		1310000
Total Octachloro Biphenyls		105000
Total Nonachloro Biphenyls		14400
Decachloro Biphenyl		2680
TOTAL PCBs		4.70E+07

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: .xsl; Created: 26-Nov-2008 12:14:50; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-10_Form1AHT_SJ925594.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5432

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.:	4125	Sample Collection:	25-Sep-2008 09:15
		Case & TO No.	08-006 EP08W002469
Matrix:	SOLID	Lab Sample I.D.:	L11788-10 R
Sample Size:	3.43 g (dry)	GC Column ID(s):	SPB OCTYL
Concentration Units:	ng/kg (dry weight basis)	Sample Data Filename(s):	PB8C_429 S: 9 PB8C_437 S: 7

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			54900	579	0.0001	5.49e+00	5.49e+00	
3,4,4',5-TeCB	81		U		579	0.0003	0.00e+00	8.69e-02	
2,3,3',4,4'-PeCB	105			1810000	6080	0.00003	5.43e+01	5.43e+01	
2,3,4,4',5-PeCB	114			90500	579	0.00003	2.72e+00	2.72e+00	
2,3',4,4',5-PeCB	118			4070000	6080	0.00003	1.22e+02	1.22e+02	
2',3,4,4',5-PeCB	123			67500	579	0.00003	2.03e+00	2.03e+00	
3,3',4,4',5-PeCB	126		U		579	0.1	0.00e+00	2.90e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	568000	1160	0.00003	1.70e+01	1.70e+01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			164000	579	0.00003	4.92e+00	4.92e+00	
3,3',4,4',5,5'-HxCB	169		U		579	0.03	0.00e+00	8.69e+00	
2,3,3',4,4',5,5'-HpCB	189			12900	579	0.00003	3.87e-01	3.87e-01	
					TOTAL TEQ		209	247	

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 26-Nov-2008 12:32:40; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-10_TEQ_SJ925594.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

Form 1A

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
B5447
Sample Collection:
25-Sep-2008 13:15

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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-12 RN2K
Matrix:	SOLID	Sample Size:	3.40 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	08-Nov-2008 Time: 03:06:39	GC Column ID:	SPB OCTYL
Extract Volume (uL):	2100	Sample Data Filename:	PB8C_437 S: 8
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	10.5	Cal. Ver. Data Filename:	PB8C_437 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	46.1

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		~~D~~ J	123000	6300	3.03	1.001
3-MoCB	2		U ~~D~~		6300		
4-MoCB	3		~~D~~	28600	6300	3.10	1.001
2,2'-DiCB	4		~~D~~	834000	6300	1.51	1.001
2,3-DiCB	5		~~D~~	15400	6300	1.50	1.198
2,3'-DiCB	6		~~D~~	248000	6300	1.53	1.177
2,4-DiCB	7		~~D~~	28100	6300	1.54	1.160
2,4'-DiCB	8		~~D~~	524000	6300	1.54	1.210
2,5-DiCB	9		~~D~~	77500	6300	1.52	1.147
2,6-DiCB	10		~~D~~	114000	6300	1.53	1.014
3,3'-DiCB	11		~~D~~	39600	6300	1.41	0.973
3,4-DiCB	12	12 + 13	C ~~D~~	105000	12600	1.54	0.985
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U ~~D~~		6300		
4,4'-DiCB	15		~~D~~	1330000	6300	1.53	1.000
2,2',3-TriCB	16		~~D~~	594000	6300	1.05	1.165
2,2',4-TriCB	17		~~D~~	1040000	6300	1.05	1.138
2,2',5-TriCB	18	18 + 30	C ~~D~~	1610000	12600	1.05	1.114
2,2',6-TriCB	19		~~D~~	1040000	6300	1.06	1.001
2,3,3'-TriCB	20	20 + 28	C ~~D~~	6420000	12600	1.03	0.848
2,3,4-TriCB	21	21 + 33	C ~~D~~	770000	12600	1.04	0.857
2,3,4'-TriCB	22		~~D~~	1900000	6300	1.03	0.872
2,3,5-TriCB	23		U ~~D~~		6300		
2,3,6-TriCB	24		~~D~~	90500	6300	1.06	1.158
2,3',4-TriCB	25		~~D~~	378000	6300	1.03	0.825
2,3',5-TriCB	26	26 + 29	C ~~D~~	735000	12600	1.02	1.301
2,3',6-TriCB	27		~~D~~	452000	6300	1.05	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		~~D~~	2710000	6300	1.03	0.837
2,4',6-TriCB	32		~~D~~	2030000	6300	1.02	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		~~D~~	21000	6300	1.02	1.274
3,3',4-TriCB	35		~~D~~	44700	6300	1.13	0.986
3,3',5-TriCB	36		U ~~D~~		6300		
3,4,4'-TriCB	37		~~D~~	1940000	6300	1.03	1.001
3,4,5-TriCB	38		U ~~D~~		6300		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		~~D~~ J	23600	6300	0.95	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C ~~D~~	3530000	18900	0.79	1.337
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		~~D~~	1870000	6300	0.79	1.311
2,2',3,5-TeCB	43		~~D~~	226000	6300	0.79	1.247
2,2',3,5'-TeCB	44	44 + 47 + 65	C ~~D~~	6270000	18900	0.78	1.285
2,2',3,6-TeCB	45	45 + 51	C ~~D~~	1300000	12600	0.79	1.146
2,2',3,6'-TeCB	46		~~D~~	445000	6300	0.79	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48		~~D~~	824000	6300	0.78	1.274
2,2',4,5'-TeCB	49	49 + 69	C ~~D~~	3980000	12600	0.79	1.259
2,2',4,6-TeCB	50	50 + 53	C ~~D~~	935000	12600	0.79	1.111
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		~~D~~	6670000	6300	0.78	1.234
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		~~D~~	17100	6300	0.82	1.000
2,3,3',4-TeCB	55		U ~~D~~		6300		
2,3,3',4'-TeCB	56		~~D~~	2820000	6300	0.78	0.904
2,3,3',5-TeCB	57		~~D~~	22700	6300	0.68	0.843
2,3,3',5'-TeCB	58		~~D~~	29500	6300	0.68	0.850
2,3,3',6-TeCB	59	59 + 62 + 75	C ~~D~~	647000	18900	0.77	1.301
2,3,4,4'-TeCB	60		~~D~~	1160000	6300	0.78	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C ~~D~~	7910000	25200	0.78	0.874
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63		~~D~~	222000	6300	0.76	0.864
2,3,4',6-TeCB	64		~~D~~	2810000	6300	0.79	1.349
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		~~D~~	5930000	6300	0.78	0.884
2,3',4,5-TeCB	67		~~D~~	187000	6300	0.74	0.856
2,3',4,5'-TeCB	68		~~D~~	32300	6300	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		~~D~~	58800	6300	0.73	0.823
2,3',5',6-TeCB	73		U ~~D~~		6300		
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		~~D~~	645000	6300	0.77	1.000
3,3',4,5-TeCB	78		U ~~D~~		6300		
3,3',4,5'-TeCB	79		~~D~~	75300	6300	0.71	0.970
3,3',5,5'-TeCB	80		U ~~D~~		6300		
3,4,4',5-TeCB	81		~~D~~	21900	6300	0.79	1.000
2,2',3,3',4-PeCB	82		~~D~~	788000	6300	1.58	0.933
2,2',3,3',5-PeCB	83	83 + 99	C ~~D~~	3740000	12600	1.57	0.886
2,2',3,3',6-PeCB	84		~~D~~	1760000	6300	1.56	1.162
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C ~~D~~	1030000	18900	1.59	0.919
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C ~~D~~	4520000	37800	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 ~~D~~	898000	12600	1.58	1.153
2,2',3,4,6'-PeCB	89		~~D~~	87800	6300	1.60	1.181
2,2',3,4',5-PeCB	90	90 + 101 + 113	C ~~D~~	7040000	18900	1.58	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		~~D~~	1140000	6300	1.57	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C ~~D~~	5470000	31500	1.57	1.120
2,2',3,5,6'-PeCB	94		~~D~~	32800	6300	1.53	1.102
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		~~D~~	46900	6300	1.54	1.015
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		D	39600	6300	1.57	1.093
2,2',4,6,6'-PeCB	104		U D		6300		
2,3,3',4,4'-PeCB	105		D	2670000	6300	1.54	1.000
2,3,3',4,5-PeCB	106		U D		6300		
2,3,3',4',5-PeCB	107	107 + 124	C D	217000	12600	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		D	428000	6300	1.52	0.997
2,3,3',4',6-PeCB	110	110 + 115	C D	8110000	12600	1.57	0.925
2,3,3',5,5'-PeCB	111		U D		6300		
2,3,3',5,6-PeCB	112		U D		6300		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		D	153000	6300	1.52	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		D	7140000	6300	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		D	11900	6300	1.36	0.958
2,3',4,5',6-PeCB	121		U D		6300		
2',3,3',4,5-PeCB	122		D	81800	6300	1.47	1.010
2',3,4,4',5-PeCB	123		D	110000	6300	1.45	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		D	13300	6300	1.41	1.000
3,3',4,5,5'-PeCB	127		U D		6300		
2,2',3,3',4,4'-HxCB	128	128 + 166	C D	1260000	12600	1.26	0.958
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C D	8050000	25200	1.25	0.929
2,2',3,3',4,5'-HxCB	130		D	421000	6300	1.26	0.913
2,2',3,3',4,6-HxCB	131		D	89000	6300	1.30	1.159
2,2',3,3',4,6'-HxCB	132		D	2670000	6300	1.25	1.173
2,2',3,3',5,5'-HxCB	133		D	71500	6300	1.25	1.191
2,2',3,3',5,6-HxCB	134	134 + 143	C D	382000	12600	1.26	1.139
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C D	1760000	18900	1.26	1.103
2,2',3,3',6,6'-HxCB	136		D	766000	6300	1.25	1.023
2,2',3,4,4',5-HxCB	137		D	395000	6300	1.26	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	111000	12600	1.27	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		D	1310000	6300	1.27	0.903
2,2',3,4,5,6-HxCB	142		U D		6300		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		D	292000	6300	1.25	1.121
2,2',3,4,6,6'-HxCB	145		U D		6300		
2,2',3,4',5,5'-HxCB	146		D	843000	6300	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C D	5210000	12600	1.25	1.133
2,2',3,4',5,6'-HxCB	148		U D		6300		
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		U D		6300		
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U D		6300		
2,2',4,4',5,5'-HxCB	153	153 + 168	C D	6100000	12600	1.25	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U D		6300		
2,3,3',4,4',5-HxCB	156	156 + 157	C D	1070000	12600	1.24	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		D	795000	6300	1.25	0.938
2,3,3',4,5,5'-HxCB	159		D	50700	6300	1.24	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		6300		
2,3,3',4',5,5'-HxCB	162		U D		6300		
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		D	480000	6300	1.26	0.921
2,3,3',5,5',6-HxCB	165		U D		6300		
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		D	325000	6300	1.26	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U D		6300		
2,2',3,3',4,4',5-HpCB	170		D	1630000	6300	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C D	522000	12600	1.05	1.162
2,2',3,3',4,5,5'-HpCB	172		D	211000	6300	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		D	1320000	6300	1.03	1.133
2,2',3,3',4,5',6-HpCB	175		D	51100	6300	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176		D	167000	6300	1.04	1.034
2,2',3,3',4',5,6-HpCB	177		D	746000	6300	1.03	1.145
2,2',3,3',5,5',6-HpCB	178		D	185000	6300	1.03	1.085
2,2',3,3',5,6,6'-HpCB	179		D	422000	6300	1.04	1.010
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C D	3090000	12600	1.04	0.910
2,2',3,4,4',5,6-HpCB	181		D	17600	6300	1.16	1.156
2,2',3,4,4',5,6'-HpCB	182		U D		6300		
2,2',3,4,4',5',6-HpCB	183	183 + 185	C D	1040000	12600	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184		U D		6300		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U D		6300		
2,2',3,4',5,5',6-HpCB	187		D	1310000	6300	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		U D		6300		
2,3,3',4,4',5,5'-HpCB	189		D	66400	6300	1.02	1.000
2,3,3',4,4',5,6-HpCB	190		D	297000	6300	1.03	0.947
2,3,3',4,4',5',6-HpCB	191		D	67600	6300	1.08	0.918
2,3,3',4,5,5',6-HpCB	192		U D		6300		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		D	439000	6300	0.88	0.991
2,2',3,3',4,4',5,6-OcCB	195		D	203000	6300	0.91	0.946
2,2',3,3',4,4',5,6'-OcCB	196		D	252000	6300	0.89	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C D	67500	12600	0.87	1.046
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C D	378000	12600	0.88	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		D	47900	6300	0.91	1.023
2,2',3,3',5,5',6,6'-OcCB	202		D	57600	6300	0.93	1.001
2,2',3,4,4',5,5',6-OcCB	203		D	289000	6300	0.89	0.920
2,2',3,4,4',5,6,6'-OcCB	204		U D		6300		
2,3,3',4,4',5,5',6-OcCB	205		D	24400	6300	0.92	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		D	78200	6300	0.80	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		D	11200	6300	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208		D	15900	6300	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209		U D		6300		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; D = dilution data; C = co-eluting congener.

Approved by: Jason MacKenzie QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 26-Nov-2008 12:13:07; Application: XMLTransformer-1.9.15; Report Filename: 1668_PCB1668_PCBTF_L11788-12_Form1A_PB8C_437S8_SJ927616.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5447
Sample Collection:
25-Sep-2008 13:15

Form 1A
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

		Case & TO No.	08-006 EP08W002469
Contract No.:	4125	Lab Sample I.D.:	L11788-12 RN2K
Matrix:	SOLID	Sample Size:	3.40 g (dry)
Sample Receipt Date:	26-Sep-2008	Initial Calibration Date:	22-Oct-2008
Extraction Date:	23-Oct-2008	Instrument ID:	HR GC/MS
Analysis Date:	08-Nov-2008 Time: 03:06:39	GC Column ID:	SPB OCTYL
Extract Volume (uL):	2100	Sample Data Filename:	PB8C_437 S: 8
Injection Volume (uL):	1.0	Blank Data Filename:	PB8C_428 S: 4
Dilution Factor:	10.5	Cal. Ver. Data Filename:	PB8C_437 S: 1
Concentration Units:	ng/kg (dry weight basis)	% Moisture:	46.1

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		152000
Total Dichloro Biphenyls		3320000
Total Trichloro Biphenyls		2.18E+07
Total Tetrachloro Biphenyls		4.86E+07
Total Pentachloro Biphenyls		4.55E+07
Total Hexachloro Biphenyls		3.25E+07
Total Heptachloro Biphenyls		1.11E+07
Total Octachloro Biphenyls		1760000
Total Nonachloro Biphenyls		105000
Decachloro Biphenyl	U	
TOTAL PCBs		1.65E+08

(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: Jason MacKenzie QA/QC Chemist

For Axys Internal Use Only [XSL Template: .xsl; Created: 26-Nov-2008 12:14:50; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-12_Form1AHT_SJ927616.html; Workgroup: WG26833; Design ID: 956]

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.

AXYS METHOD MLA-010 Rev 09

CLIENT SAMPLE NO.
B5447

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.:	4125	**Sample Collection:**	25-Sep-2008 13:15
		Case & TO No.	08-006 EP08W002469
Matrix:	SOLID	**Lab Sample I.D.:**	L11788-12 RN2K
Sample Size:	3.40 g (dry)	**GC Column ID(s):**	SPB OCTYL
Concentration Units:	ng/kg (dry weight basis)	**Sample Data Filename(s):**	**PB8C_437 S: 8**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			645000	6300	0.0001	6.45e+01	6.45e+01	
3,4,4',5-TeCB	81			21900	6300	0.0003	6.57e+00	6.57e+00	
2,3,3',4,4'-PeCB	105			2670000	6300	0.00003	8.01e+01	8.01e+01	
2,3,4,4',5-PeCB	114			153000	6300	0.00003	4.59e+00	4.59e+00	
2,3',4,4',5-PeCB	118			7140000	6300	0.00003	2.14e+02	2.14e+02	
2',3,4,4',5-PeCB	123			110000	6300	0.00003	3.30e+00	3.30e+00	
3,3',4,4',5-PeCB	126			13300	6300	0.1	1.33e+03	1.33e+03	
2,3,3',4,4',5-HxCB	156	156 + 157	C	1070000	12600	0.00003	3.21e+01	3.21e+01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			325000	6300	0.00003	9.75e+00	9.75e+00	
3,3',4,4',5,5'-HxCB	169		U		6300	0.03	0.00e+00	9.45e+01	
2,3,3',4,4',5,5'-HpCB	189			66400	6300	0.00003	1.99e+00	1.99e+00	
					TOTAL TEQ		1750	1840	

(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: _____Jason MacKenzie_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 26-Nov-2008 12:32:40; Application: XMLTransformer-1.9.15;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L11788-12_TEQ_SJ927616.html; Workgroup: WG26833; Design ID: 956]

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.

USEPA REGION 02

LAB NAME: AXYS ANALYTICAL SERVICES LTD.
PCB CONGENER ANALYSIS
EPA Method: 1668A and CBC01.0
AXYS Method: MLA-010
4125: L11788-1 to -12

Contract Number: HE0291/PR-DC-08-02481
Task Order Number: EP08W002469
Case No: 08-006
SDG Number: B53X4
Regional Tracking Number: N/A
Sample Number:
B53X4, B53X5, B53Y2, B5405, B5408, B5419, B5421, B5426, B5431, B5432, B5446, B5447
Matrix: SOLID

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28 November 2008

SDG NARRATIVE

This narrative describes the analysis of twelve solid samples for the determination of PCB congeners using high-resolution gas chromatography / high-resolution mass spectrometry (HRGC / HRMS).

1. SAMPLE RECEIPT AND STORAGE

Samples were received on the 26th of September 2008. Details of sample conditions on receipt are provided on the Sample Receiving Record forms included in this data package. Samples arrived at 11°C, exceeding the requirement of 4°C. This is judged not to significantly impact the data accuracy and the analysis was allowed to proceed. Samples were stored at -20°C, in the dark, prior to extraction and analysis.

2. SAMPLE PREPARATION

The solid samples were homogenized as described on the Sample Preparation Record forms included in this data package.

Sample B53X5, B5405, B5408, B5419, B5421 & B5426 (AXYS IDs: L11788-2, -4 to -8)

Each sample was spiked with twice the routine ^{13}C-labeled quantification standards and extracted with toluene using a Dean-Stark apparatus. The raw extracts were spiked with twice the routine ^{13}C-labeled cleanup standards and cleaned up using standard chromatographic columns as documented on the laboratory worksheets included in this data package. Following cleanup, the final extract was reduced in volume and spiked with labeled recovery (internal) standards prior to instrumental analysis.

Sample B53X4, B53Y2, B5431, B5432, B5446 & B5447 (AXYS IDs: L11788-1, -3, -9 to -12)

Each sample was spiked with ten times the routine ^{13}C-labeled quantification standards and extracted with toluene using a Dean-Stark apparatus. The raw extracts were then split into a 1/10th portion for analysis and a 9/10th portion for backup. The portion for analysis was spiked with ^{13}C-labeled cleanup standards and cleaned up using standard chromatographic columns as documented on the laboratory worksheets included in this data package. Following cleanup, the final extract was reduced in volume and spiked with labeled recovery (internal) standards prior to

instrumental analysis. Final result are calculated in terms of whole sample extracted.

3. ANALYSIS

i. Samples and QC samples were analyzed in a batch named CLWG26833. The composition of the batch is shown on the Cover Page and Correlation Table, and on the Batch list form included among the extraction workup sheets.

ii. Analysis procedures were in general accordance with **USEPA Method CBC01.0** as documented in AXYS Method MLA-010: *Analytical Method for the Determination of 209 PCB Congeners by EPA Method 1668A or EPA Method CBC01.0.* Method summary (MSU-020) of AXYS Method MLA-010 is included following this narrative.

iii. Instrumental analysis was conducted by high-resolution gas chromatography/high resolution mass spectrometry (HRGC/HRMS) on an AUTOSPEC ULTIMA high resolution MS equipped with an HP 6890 gas chromatograph, a CTC auto-sampler, and an Alpha data system running Micromass software. An SPB-Octyl (30 m, 0.25 mm i.d., 0.25 µm film thickness) chromatography column was coupled directly to the MS source. The MS was operated at 10,000 (static) mass resolution in the electron impact ionization mode using multiple ion detection, acquiring the ions listed in Table 8 of **'USEPA Method 1668, Revision A'**.

iv. On the chromatograms and quantification reports, the fourth character in the datafile name identifies the instrument (e.g. PB8B_259A S: A - the fourth character is "B"). The following is a correlation between the single character and the formal name:
   - A, B, C, 1, 2, 3 - AUTOSPEC ULTIMAs.

v. In this data package each chromatogram is attached to its quantification report pages as produced by the instrument's Micromass OPUSQuan software. The qualitative identification procedures followed the criteria as set out in Exhibit D of Method CBC01.0, Sections 11.1.1 through 11.1.6.1; the specifications refer to absolute and relative retention time, signal to noise ratio and relative abundance ratio. Chromatograms were visually examined and evaluated against the areas and ratios of PCB peaks as determined by the OPUSQuan software. If the ratio determined by the software was just marginally out of specification, the chromatogram was visually inspected to ensure that peaks were correctly integrated and peak areas were adjusted where correction was necessary.

vi. Homologue totals were obtained by summing the concentration of all detected congeners at each level of chlorination. Congener peaks that did not meet the method ion abundance ratio criteria were excluded from in the homologue totals.

vii. Target concentrations were determined by isotope dilution using Micromass OPUSQUAN software. Sample data are reported using reporting limits (RLs) as specified by the client. The reporting limit (RL) was defined as the concentration equivalent to the lowest calibration standard (LMCL) or the sample specific detection limit (SDLs), whichever was greater. The LMCL has been prorated for the extract volume and sample size. Any concentrations below the reporting limits have been flagged 'U' (non-detect) and not included in the homologue total and TEF adjusted concentrations.

viii. Sample specific detection limits (SDLs) were determined from the analysis data by converting the average noise signal to a concentration following the same procedures used to convert target peak responses to concentrations.

The CRQLs from CBC01.0 Exhibit C Section 1 have been prorated to actual sample size used in the analysis.

4. REPORTING CONVENTIONS

i. The AXYS contract number assigned for internal tracking was 4125. Samples were assigned a unique laboratory identifier of the form L11788-X, where X = numeral; all data reports reference both the AXYS ID and the client sample identifier. A table co-correlating AXYS IDs with client's sample numbers is included in this data package.

ii. Results are reported in concentration units of nanogram per kilogram (ng/kg) on a dry weight basis.

iii. A suffix is added to the AXYS sample ID for any operations performed on the extract after the initial instrumental analysis. The extra work suffices used in this data package are:

R = repeat analysis using a fresh aliquot of sample
NK = large dilution of the extract and a fortification of labelled surrogate compounds

v. The following laboratory, contract specific, qualifiers were used:

C = co-elution of congeners
Cx = co-elutes with the indicated congener 'x'. Data are reported against the indicated congener (which is always the lowest IUPAC-designated congener of the co-elution).
U = identifies a target analyte that was not detected
E = exceeds calibrated linear range, see dilution data
D = dilution data
EMPC = identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum analyte concentration
X = results reported separately

5. QA/QC NOTES

QC samples were prepared alongside the client samples, and were carried through the same analytical procedures. The sample data were evaluated in relation to the batch QC samples. Note that sample analyte concentrations are not blank corrected.

Lab Blank (AXYS ID: WG26833-101)

No analytes were detected in the lab blank above the reporting limits specified.

Laboratory Control Sample (AXYS ID: WG26833-102)

Recoveries for all target analytes were within the range specified in Table 6 Exhibit D of Analytical Methods for Chlorinated Biphenyl Congeners.

Sample B5447 (AXYS ID: L11788-12)

Sample B5447 was not accurately quantified using isotope dilution due to its elevated concentration levels. The extract had a large dilution performed and a fortification of labelled surrogates, therefore target concentrations are not recovery corrected. Reported target concentrations should be considered minimum values. Percent surrogate recovery values are not available and its Form 2 report is not included in this data package.

6. ANALYTICAL DISCUSSION

General
A summary of the method modifications to the EPA Method CBC01.0-follows this narrative.

Extra work is tabulated according to the Lab Codes (the suffix added to the AXYS IDs), which are defined under the Reporting Conventions section of this narrative.

Dilution & Respikes
Some samples required large dilution of the extract and a fortification of labeled quantification compounds due to linear responses of some congeners and are indicated by the suffix 'NK' added to the AXYS IDs. The dilution factor is provided on the report for the dilution analysis.

All samples were initially extracted in batch WG26656; however, analysis results did not meet all method specifications. A repeat analysis of these samples was conducted using a fresh aliquot of sample. The repeat analysis data are reported, as indicated by suffix 'R' on the Axys ID.

7. SAMPLE CALCULATION

i. Example RRF calculation

Relative Response Factors (RRFs) were calculated by applying the area response of the analytes using the following formula.

$$\text{RRF} = \left(\frac{\text{area of Target}}{\text{area of labeled compound}}\right) \times \left(\frac{\text{concentration of labeled compound}}{\text{concentration of Target}}\right)$$

An example is given for PCB 1. Initial calibration data file PB8C_411H S: 5 = CS3

$$\text{RRF for PCB 1} = \frac{\text{(area of PCB1) (concentration of labeled PCB 1)}}{\text{(area of labeled PCB1) (concentration of PCB 1)}}$$

$$= \frac{(8.22 \times 10^7)\ (100\text{ng/mL})}{(1.62 \times 10^6)\ (50\text{ng/mL})}$$

$$= \underline{\mathbf{1.015}}$$

Mean relative response factors (RRF) determined from the initial calibration runs were used to convert raw peak areas in sample chromatograms to final concentrations using the formulae applied below. The mean RRF for PCB 1 from the initial calibration equals 1.041.

ii. Sample target concentration calculation.

Sample calculation is provided for PCB 202 in sample B53X4 (AXYS ID: L11788-1) (datafile: PB8C_430 S: 3).

$$\text{Concentration of Target} = \left(\frac{\text{area of Target}}{\text{area of labeled compound}}\right) \times \left(\frac{\text{weight of labeled compound}}{\text{RRF}}\right) \times \left(\frac{1}{\text{sample size}}\right)$$

$$\text{Concentration of PCB 202} = \frac{\text{(area of PCB 202) (weight of labeled PCB 202) (1)}}{\text{(area of labeled PCB 202) (RRF) (weight of sample)}}$$

$$\text{Concentration of PCB 202} = \frac{(1.33 \times 10^7)\,(20000\text{pg})\,(1)}{(7.12 \times 10^6)\,(0.8694)\,(3.518\text{g})}$$

$$= \underline{\mathbf{12200}}\ \text{pg/g}$$

Sample calculation is provided for PCB 202 in sample B53X5 (AXYS ID: L11788-2) (datafile: PB8C_429 S: 4).

$$\text{Concentration of Target} = \left(\frac{\text{area of Target}}{\text{area of labeled compound}}\right) \times \left(\frac{\text{weight of labeled compound}}{\text{RRF}}\right) \times \left(\frac{1}{\text{sample size}}\right)$$

$$\text{Concentration of PCB 202} = \frac{(\text{area of PCB 202})\,(\text{weight of labeled PCB 202})\,(1)}{(\text{area of labeled PCB 202})\,(\text{RRF})\,(\text{weight of sample})}$$

$$\text{Concentration of PCB 202} = \frac{(6.17 \times 10^6)\,(4000\text{pg})\,(1)}{(1.56 \times 10^7)\,(0.8694)\,(3.504\text{g})}$$

$$= \underline{\mathbf{519}}\ \text{pg/g}$$

8. DATA PACKAGE

This data package is assigned a unique identifier DPWG27229 shown on the front page of this Data Package. Included in the data package following the narrative is the following documentation:

- method summary
- sample cover page and correlation table
- sample data reports followed by sample raw data, organized by AXYS ID
- instrumental QC data reports and raw data
- laboratory QC data reports, followed by raw data
- laboratory extraction logs for each sample
- sample receiving documentation

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.

Signed: Jason MacKenzie, B.Sc., QC Chemist

November 28th, 2008
Date Signed

AXYS ANALYTICAL SERVICES LTD

Analysis of PCB Congeners By USEPA Method 1668A

Samples are spiked with isotopically labelled surrogate standards, solvent extracted and cleaned up on a series of chromatographic columns which may include silica, Florisil, alumina, carbon/Celite and gel permeation columns. The final extract is spiked with isotopically labelled recovery (internal) standards prior to instrumental analysis. Analysis of the extract is performed on high-resolution mass spectrometer (HRMS) coupled to a high-resolution gas chromatograph (HRGC) equipped with a SPB-Octyl chromatography column (30 m, 0.25 mm i.d., 0.25 µm film thickness). Resolution of the PCB 156/157 coelution may be achieved by high resolution GC/MS using a DB-1 chromatography column (30 m, 0.25 mm id, 0.25 µm film thickness). The method is carried out in accordance with the protocols described in EPA Method 1668A *with changes and correction through to August 20, 2003*, incorporating the AXYS modifications described below. Details of all procedures are documented in AXYS method MLA-010, *Analytical Method for Determination of 209 PCB Congeners by EPA Method 1668A.*

Method Modifications:

Section 4.2.1, 4.2.2: The protocol for washing reusable glassware includes a detergent wash, water rinse and baking at a minimum of 300°C for 8 hours. Immediately prior to use, glassware is solvent rinsed with toluene and hexane.

Section 4.7: The first cleanup column for tissue extracts is a gravity gel permeation column (SX-3 Biobeads). An anthropogenic isolation column 7.5.3 is not used.

Section 6.5.1: Glass wool is cleaned by rinsing twice with toluene and twice with hexane.

Section 7.12, 7.13, 9.0, 11.0: The concentration of the labeled toxics/LOC and the cleanup standard spiking solutions is 100 ng/mL and the sample spiking volume is 20 µL. The resulting final concentrations in the extracts are as specified in the method.

Section 7.14: Concentration of the labeled injection internal standard spiking solution (recovery standard) is modified so that a volume of 5 µL is added. The resulting amount of standard added to the final extract is the same as specified in the method. The solution is spiked into a 15 µL extract volume for a final extract volume of 20 µL.

Section 7.2.1: Powdered, not granular, sodium sulphate is baked at a minimum of 300°C for 8 hrs rather than at 600°C for 24 hrs.

Section 7.5.1: Silica is activated by baking at 450°C in a muffle oven for at least 8 hrs.

Section 7.5.4.1.1: Florisil is baked at 450°C in a muffle over for at least 8 hrs, and then deactivated with water to 2.1% deactivation.

Section 10.3.3, 15.3.3: A S:N ratio of 3:1 for di-PCBS and nona-PCBs in CS0.2 calibration solution is acceptable.

Section 11.5.6: Unless requested by the client, the aqueous portion after filtration of aqueous samples with >1% solids is not discarded but is extracted.

Section 11.5, 11.5.2, 11.5.5 12.3 Solid samples are dried by mixing with anhydrous sodium sulphate. The dried solid is extracted using a soxhlet extraction apparatus. The surrogate

spike is incorporated after the drying step. Equilibration time is 30 minutes. The extracting solvent for solids is dichloromethane.

Section 11.8, 12.4: The surrogate spike is incorporated into the sample after the drying step to eliminate the possibility of disproportional loss of volatile labeled and target compounds.

Section 12.4.2: The pre-cleaning of the soxhlet apparatus is carried out using toluene instead of dichloromethane.

Section 12.4.9: Lipid analysis is carried out by sub-sampling two 2g portions of the extract from a total 30 g extract weight. The cleanup standard is spiked into the extract after soxhlet extraction and before any lipid analysis or rotary evaporation is done. The percent recoveries are corrected for the amount of extract used for lipid analysis.

Section 12.6.1.1: Rotary evaporation is done at 30°C. Daily cleaning of the rotary evaporators include dismantling and rinsing/soaking in solvent. Mimic proofs are run periodically but are not archived daily.

Section 12.7.4: Before Florisil or alumina cleanup procedures, a solvent exchange is done by reducing under nitrogen to 300 uL and bulking up to 1mL in hexane. If toluene is present the extract is reduced to 50 uL under nitrogen and bulked up to 1mL.

Section 12.7.7: Toluene (1 mL) is added to the eluate from the final column prior to rotary evaporation and nitrogen blow down concentration steps.

Section 13.1.1: GPC chromatography, by a gravity column, is routinely used only for tissue extracts. The GPC cleanup is optional for all other matrices.

Section 13.3.1: Routine layered silica column is as follows: 0.5 g neutral silica, 2 g 28% basic silica, 0.5 g neutral silica, 4 g 44% acidic silica, 4 g 22% acidic silica, 1 g neutral silica.

Section 13.3.4: The sample is loaded onto the column followed by 2-3 rinses of a least 1 mL, and eluted with 100 mL of hexane.

Section 14.2: The volume of labeled injection internal standard (recovery standard) added to the extract is 5 µL, for a final extract volume of 20 µL. Hexane rather than nonane is used as the solvent to bring extract back to volume for re-analysis or to dilute extracts.

Section 15.3: The calibration solution containing all 209 PCB congeners is used as the CAL/VER solution.

Section 17.5: Extracts are diluted with hexane. The concentration of the labeled injection internal (recovery) standard is not re-adjusted to 100 pg/uL when dilutions are performed.

Section 17.0

$Conc_i$ - the concentrations of target analytes, and the labelled compound concentrations and recoveries, are calculated using the equations below. These procedures are equivalent to those described in the method but are more direct.

$$Conc_i = \frac{A_i}{A_{si}} \times \frac{M_{si}}{RRF_{i,si}} \times \frac{1}{M_x}$$

where A_i = summed areas of the primary and secondary m/z's for the analyte peak of interest (compound *i*)

A_{si} = summed areas of the primary and secondary m/z's for the labelled surrogate peak used to quantify *i*)

M_x = mass of sample taken for analysis

M_{si} = mass of labelled surrogate (compound *si*) added to sample as calculated by the concentration of standard spiked (pg/mL) multiplied by the volume spiked (mL)

$RRF_{i,si}$ = mean relative response factor of *i* to *si* from the five-point calibration range and defined individually as:

$$\frac{A_i}{A_{si}} \times \frac{M_{si}}{M_i}$$

Calculation of Surrogate Standard Concentrations and Percent Recoveries:
Concentrations of surrogate standards are calculated using the following equation:

$$Conc_{si} = \frac{A_{si}}{A_{rs}} \times \frac{M_{rs}}{RRF_{si,rs}}$$

and, the percent recoveries of the surrogate standards are calculated using the following equation:

$$\%Recovery = \frac{A_{si}}{A_{rs}} \times \frac{M_{rs}}{RRF_{si,rs}} \times \frac{1}{M_{si}} \times 100$$

where A_{rs} and A_{si} are the summed peak areas (from the primary and secondary m/z channels) of recovery standard and labelled surrogate added to the sample;
M_{rs} and M_{si} are the masses of recovery standard and labelled surrogate added to the sample, and;
$RRF_{si,rs}$ is the mean relative response factor of the labelled surrogate to the recovery standard as determined by the five-point calibration range and defined individually as:

$$\frac{A_{si}}{A_{rs}} \times \frac{M_{rs}}{M_{si}}$$

Table 1. QC Acceptance Criteria for PCBs in CAL/VER, IPR, OPR, and Samples[1]

Congener	Cong. No.[2]	Test conc ng/mL	CAL/VER[4] (%)		IPR[5] (%)		OPR[6] (%)		Labelled compound recovery in samples	
			Warning Limit	Acceptance Limit	RSD	X	Warning Limit	Acceptance Limit (%)	Warning Limit	Acceptance Limit
2-MoCB	1	50	75-125	70-130	40	60-140	70-130	50-150	-	-
4-MoCB	3	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,2'-DiCB	4	50	75-125	70-130	40	60-140	70-130	50-150	-	-
4,4'-DiCB	15	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,2'6-TrCB	19	50	75-125	70-130	40	60-140	70-130	50-150	-	-
3,4,4'-TrCB	37	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,2'6,6'TeCB	54	50	75-125	70-130	40	60-140	70-130	50-150	-	-
3,3',4,4'-TeCB	77	50	75-125	70-130	40	60-140	70-130	50-150	-	-
3,4,4',5-TeCB	81	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,2',4,6,6'-PeCB	104	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,3,3',4,4'-PeCB	105	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,3,4,4',5-PeCB	114	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,3',4,4',5-PeCB	118	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2',3,4,4',5-PeCB	123	50	75-125	70-130	40	60-140	70-130	50-150	-	-
3,3',4,4',5-PeCB	126	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,2',4,4',6,6'-HxCB	155	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,3,3',4,4',5-HxCB[3]	156	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,3,3',4,4',5'-HxCB[3]	157	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,3',4,4',5,5'-HxCB	167	50	75-125	70-130	40	60-140	70-130	50-150	-	-
3,3',4,4',5,5'-HxCB	169	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,2',3,4',5,6,6'-HpCB	188	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,3,3',4,4',5,5'-HpCB	189	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,2',3,3',5,5',6,6'-OcCB	202	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,3,3',4,4',5,5',6-OcCB	205	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,2',3,3',4,4',5,5',6-NoCB	206	50	75-125	70-130	40	60-140	70-130	50-150	-	-
2,2',3,3,'4,5,5',6,6'-NoCB	208	50	75-125	70-130	40	60-140	70-130	50-150	-	-
DeCB	209	50	75-125	70-130	40	60-140	70-130	50-150	-	-
Labelled Compounds										
$^{13}C_{12}$-2-MoCB	1L	100	65-135	50-150	50	20-135	15-140	15-140	15-130	15-150
$^{13}C_{12}$-4-MoCB	3L	100	65-135	50-150	50	20-135	15-140	15-140	15-130	15-150
$^{13}C_{12}$-2,2'-DiCB	4L	100	65-135	50-150	50	35-135	30-140	30-140	25-130	25-150
$^{13}C_{12}$-4,4'-DiCB	15L	100	65-135	50-150	50	35-135	30-140	30-140	25-130	25-150
$^{13}C_{12}$-2,2',6-TrCB	19L	100	65-135	50-150	50	35-135	30-140	30-140	30-130	25-150
$^{13}C_{12}$-3,4,4'-TrCB	37L	100	65-135	50-150	50	35-135	30-140	30-140	30-130	25-150
$^{13}C_{12}$-2,2',6,6'-TeCB	54L	100	65-135	50-150	50	35-135	30-140	30-140	30-130	25-150
$^{13}C_{12}$-3,3',4,4'-TCB	77L	100	65-135	50-150	50	35-135	30-140	30-140	30-130	25-150
$^{13}C_{12}$-3,4,4',5-TeCB	81L	100	65-135	50-150	50	35-135	30-140	30-140	30-130	25-150
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2,3,4,4',5-PeCB	114L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2,3',4,4',5-PeCB	118L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2',3,4,4',5-PeCB	123L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-3,3',4,4',5-PeCB	126L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2,3,3',4,4',5-HxCB[3]	156L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB[3]	157L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2',3,3',4,4',5,5'-HpCB	189L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6,6'-NoCB	208L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	100	65-135	50-150	50	35-135	30-140	30-140	40-130	25-150
Cleanup Standard										
$^{13}C_{12}$-2,4,4'-TriCB	28L	100	60-130	60-130	45	45-120	40-125	40-125	40-130	30-135
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111L	100	60-130	60-130	45	45-120	40-125	40-125	40-130	30-135
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178L	100	60-130	60-130	45	45-120	40-125	40-125	40-130	30-135

1. QC acceptance criteria for IPR, OPR, and samples based on a 20 µL extract final volume
2. Suffix "L" indicates labelled compound.
3. PCBs 156 and 157 are tested as the sum of two concentrations

4. CAL VER: Calibration Verification test run at least every 12 hours
5. IPR: Initial Precision and Recovery demonstration
6. OPR: Ongoing Precision and Recovery test run with every batch of samples.

Table 1 con't

QC Parameter	Specification
Analysis Duplicate	Must agree to within ±20% of the mean (applicable to concentrations >10 times the DL)[1]
Procedural Blank	Analyte concentrations in blank samples for PCB congeners 77, 81, 114, 123, 126 and 169 must be less than 2 pg/congener/sample, and concentrations of PCB congeners 156, 157, 167 and 189 must be less than 10 pg/congener/sample. Concentrations of all other individual PCB congeners or coelutions must be less than 50 pg/congener/sample in blank samples. The sum of all 209 congeners must be less than 300 pg/sample. Higher levels are acceptable where sample concentrations exceed 10x the blank levels.
Detection Limit	Typical sample specific detection limits for individual congeners, determined from chromatographic noise, range from 0.5 to 2.0 pg.
Initial Calibration	For 6-point calibration, a relative standard deviation of the RRF's ≤20% for all compounds. Ion ratios for all congeners must be within ±15% of theoretical for CS 0.2. Minimum S:N ratio 10:1 for all calibration standards, except for CS0.2, where the S:N may be as low as 3:1 for di-PCBs and nona-PCBs.
Analyte/Surrogate Ratios	Response must be within the calibrated range of the instrument. Coders may use data from more than one chromatogram to get the responses in the calibrated range.
Ion Ratios	Ion ratios must fall within ±15% of the theoretical values for positive identification of all targets in the calibration standards and samples.
Sensitivity	Minimum S:N ratio 10:1 for all calibration standards except for CS0.2, where the S:N may be as low as 3:1 for di-PCBs and nona-PCBs .

[1] Duplicate criterion is a guideline, final assessment depends upon sample characteristics, overall batch QC and on-going lab performance.

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USEPA REGION 2

COVER PAGE AND CORRELATION TABLE

PCB CONGENER ANALYSIS

Lab Name: AXYS Analytical Services Ltd.	**Client No: 4125**
Contract No.: HE0291/PR-DC-08-02481	**AXYS Method: MLA-010**
Task Order No.: EP08W002469	**EPA Method: CBC01.0**
Case No.: 08-006 (CLP #37858)	**SDG No: B53X4**
Data Package Identification: DPWG27229	**Program: Sediment Samples**

Client Sample No.	**Lab Sample ID**
CBLK01	WG26833-101
CLCS01	WG26833-102
B53X4	L11788-1
B53X5	L11788-2
B53Y2	L11788-3
B5405	L11788-4
B5408	L11788-5 WG26833-103 DUPLICATE
B5419	L11788-6
B5421	L11788-7
B5426	L11788-8
B5431	L11788-9
B5432	L11788-10
B5446	L11788-11
B5447	L11788-12

Comments: Narrative Report is attached. (yes)

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the Narrative Report. Release of the data contained in this hardcopy data package (and in the data submitted on magnetic media, if data are submitted on magnetic media), has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:	Name: Jason MacKenzie
Date: November 28th, 2008	Title: QA/QC Chemist

Angelica Whetung

To: Feranda.Jennifer@epamail.epa.gov
Cc: Farris.Kristin@epamail.epa.gov; Holman.Elizabeth@epamail.epa.gov; Georgina Brooks; Christine Brownlie
Subject: RE: R2 project update - Solids received under Case 37858

-----Original Message-----
From: Feranda.Jennifer@epamail.epa.gov [mailto:Feranda.Jennifer@epamail.epa.gov]
Sent: Tuesday, September 30, 2008 11:36 AM
To: Angelica Whetung
Cc: Farris.Kristin@epamail.epa.gov; Holman.Elizabeth@epamail.epa.gov; Georgina Brooks; Christine Brownlie
Subject: RE: R2 project update - Solids received under Case 37858

Hi Angelica - I am attaching a few aroclor EDDs for another project for this site. These should give you a general idea of what we are seeing there. Please be advised that this is a large site and samples collected in one area may not be completely representative of the whole site. I would still proceed with caution when analyzing these samples.

If you have any additional question, please don't hesitate to e-mail or call.

Jennifer

Jennifer E. Feranda, CLP Project Officer
U.S. EPA Region II, MS-215
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-----"Angelica Whetung" <awhetung@axys.com> wrote: -----

To: Jennifer Feranda/R2/USEPA/US@EPA, Kristin Farris/DC/USEPA/US@EPA
From: "Angelica Whetung" <awhetung@axys.com>
Date: 09/30/2008 01:27PM
cc: Elizabeth Holman/DC/USEPA/US@EPA, "Georgina Brooks" <gbrooks@axys.com>, "Christine Brownlie" <cbrownlie@axys.com>
Subject: RE: R2 project update - Solids received under Case 37858

Hi Jennifer,
Kristin has provided us with a an amendment to PO for EP08W002469 for Case 08-006. We have attached the signed copy.
Beth: If possible, we would like to start the TAT for these solids when we receive historical data from the site to avoid putting high levels on our sensitive instruments. Please let me know if this is feasible.
Jennifer, if there are any historical data available for this site it would be appreciated as we have received high level solids for another region this month and are trying to determine suitable workup for solids based on more information.
I will look out for the Case 08-005 samples and inform you of the condition upon receipt.
Regards,
Angie

-----Original Message-----
From: Feranda.Jennifer@epamail.epa.gov [mailto:Feranda.Jennifer@epamail.epa.gov]
Sent: Tuesday, September 30, 2008 5:23 AM
To: Angelica Whetung
Cc: Holman.Elizabeth@epamail.epa.gov; Georgina Brooks
Subject: RE: R2 project update - Solids received under Case 37858

Hi Angelica - My response to you questions are below in red.

Jennifer E. Feranda, CLP Project Officer
U.S. EPA Region II, MS-215
DESA-HWSB-HWSS
2890 Woodbridge Ave.
Edison, NJ 08837

Phone: (732) 321-6687
Fax: (732) 321-6622
E-mail: feranda.jennifer@epa.gov

-----"Angelica Whetung" <awhetung@axys.com> wrote: -----

To: Jennifer Feranda/R2/USEPA/US@EPA, Elizabeth Holman/DC/USEPA/US@EPA
From: "Angelica Whetung" <awhetung@axys.com>
Date: 09/29/2008 06:16PM
cc: "Georgina Brooks" <gbrooks@axys.com>
Subject: RE: R2 project update - Solids received under Case 37858

Hello Jennifer,
We have received 12 solids for Case 37858 (on COC), EP08W002474 on Friday and they are intact and came in at 11 degrees celcius slightly above temperature. There were no sample tags in the shipment or listed on COC. I have attached a copy of the COC below.
1. Please confirm the case # and regional tracking # for these samples. The SOW for Regional tracking case 08-005 has solids, PE samples and aqueous samples but the sampling was done from the sampling group indicated on the SOW Regional tracking case 08-006. The samples you received were from Regional tracking number 08-006. There was an oversight (I am not sure if it was on my part or the people submitting the reqest) and the Task Order should have stated 12 soil samples, not aqueous. I sincerely apologize for this oversight and confusion. You should start receiving the samples and the PE for TO SOW 08-005 today or tomorrow.
2. Please confirm that we are allowed to process samples that arrive above temperature. Please proceed with processing the samples at the temperature you received them at. Just note the temperature in any write-ups provided to the Region
3. Also, the Task order states there will be 10 soil/sediments and 1 PE soil and there were 12 soil/sediments received and no PE sample. Please confirm sample number and type. Will there be a revised PO to include additional samples? As state above, what you are referring to here is to be for Case 08-005. There should be 10 soil/sediments, 11 aqueous and 1 PE. You should start receiveing these today. I believe the Task order stated that sampling would begin on October 22 (through October 17) but the sampling start date was pushed back to 9/29.
4. Please send me any aroclor or PCB data that may be available for these samples. If there are no data available, we will proceed as per usual and contact you if there are any high levels that will require further re-work (i.e. such as solvent dilutions and respikes with quantification surrogate). I do not have Aroclor data yet for these samples. They are being analyzed through the CLP at the same time as the Congener data. I will see if I can get you some historical data from the site in general.
So essenstially, Task Order 08-005 is correct with the exception of the starting date being pushed back to 9/29.
The Task Order for 08-006 is correct except the samples should have been listed as soils, not aqueous.
For Case 08-005, you will be recieving one soil PE. This should be analyzed in one SDG with the 10 sediment samples you will be receiving from the field. The PE will come with instructions for preping and analyzing it.
If you have any additional questions, please let me know. I did speak with Beth this morning and she will be calling you to discuss what revisions may be necessary.
Jennifer
Beth, we would like to start the 28 calendar TAT for these samples after we have a revised PO and confirmed Scope of work. Please confirm if this is feasible. We will not start these samples until these issues have been clarified.
Cheers,
Angie

-----Original Message-----
From: Feranda.Jennifer@epamail.epa.gov [mailto:Feranda.Jennifer@epamail.epa.gov]
Sent: Friday, September 26, 2008 12:10 PM
To: Holman.Elizabeth@epamail.epa.gov
Cc: Georgina Brooks; Angelica Whetung
Subject: Re: R2 project update

I can try and get some information but it probably won't be until Monday. This site definitely is known for PCB contamination and there has been sampling for Aroclors in the past.
Jen
Jennifer E. Feranda, CLP Project Officer
U.S. EPA Region II, MS-215
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Edison, NJ 08837

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-----Elizabeth Holman/DC/USEPA/US wrote: -----

To: Jennifer Feranda/R2/USEPA/US@EPA
From: Elizabeth Holman/DC/USEPA/US
Date: 09/26/2008 02:25PM
cc: "Georgina Brooks" <gbrooks@axys.com>, "Angelica Whetung" <awhetung@axys.com>
Subject: Re: R2 project update

Hi Jen - FYI - see info below. Is there any info we can provide to answer Axys' questions? Thanks.

contact: analytical@axys.com

Beth
"Angelica Whetung" <awhetung@axys.com>

"Angelica Whetung" <awhetung@axys.com>

09/26/2008 01:53 PM

To Elizabeth Holman/DC/USEPA/US@EPA
cc "Georgina Brooks" <gbrooks@axys.com>
Subject R2 project update

Hi Beth,

There appears to be a shipment stalled in customs at the moment with a note stating that these are solids from Weston Solutions. These have not made it to the lab yet, we are trying to expedite the shipment to get them here tonight. The solids I believe are from Task Order number Ep08W002474.

Do you have any information regarding the solids and waters from these sites? Is there any aroclor data available?

Thanks,
Angie

Angelica Whetung, BSc.
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[attachment "EP08W002469_Amend..pdf" removed by Jennifer Feranda/R2/USEPA/US]