

DIOXINS AND FURAN RESIDUES IN FISH/SHELLFISH FROM THE VICINITY OF PORT ALBERNI PULP MILL (BC) - PARTS PER TRILLION

NO.	SITE	LAB ID NO	% LIPID	SPECIES/TISSUE	IND. PER COMP.	2,3,7,8 SUBST. TCDD	TOTAL TCDD	2,3,7,8 SUBST. PCDD	TOTAL PCDD	2,3,7,8 SUBST. H6CDD	TOTAL H6CDD	2,3,7,8 SUBST. H7CDD	TOTAL H7CDD	OCDD	2,3,7,8 SUBST. TCDF	TOTAL TCDF	1,2,3,7,8 PCDF	2,3,4,7,8 PCDF	2,3,7,8 SUBST. PCDF	TOTAL PCDF	2,3,7,8 SUBST. H6CDF	TOTAL H6CDF	2,3,7,8 SUBST. H7CDF	TOTAL H7CDF	OCDF	
1	ALBERNI HARBOUR C1 1.4 KM SSW of OUTFALL	2601-04	6.41	Dungeness Crab - hepatopancreas	3	4.8	13.0	16.0	54.0	68.0	220.0	18.0	35.0	16.0	120.0	200.0	<0.7	3.6	3.6	69.0	<2.4	71.0	19.0	35.0	<2.6	
2	ALBERNI HARBOUR C1b 1.6 KM S of OUTFALL	2601-05	NA	Dungeness Crab - hepatopancreas	1	3.8	17.0	<1.7	32.0	49.3	160.0	25.0	50.0	42.0	85.0	140.0	<1.0	3.2	3.2	47.0	<2.9	67.0	22.0	42.0	<4.1	
	AVERAGE OF SAMPLES 1 AND 2			Dungeness Crab - hepatopancreas		4.3	15.0	8.0	43.0	58.7	190.0	21.5	42.5	29.0	102.5	170.0	<1.0	3.4	3.4	58.0	<2.9	69.0	20.5	38.5	<4.1	
3 2849-4 25-01-92	ALBERNI HARBOUR C1 1.4 KM SSW of OUTFALL	2642-04	15.5	Dungeness Crab - hepatopancreas	3	5.4	22	24	93	134	420	44	82	53	58	110	1.8	3.8	5.6	52	11	170	52	72	NDR(6.8)	
4 2849-1 25-01-92	ALBERNI HARBOUR C1 1.4 KM SSW of OUTFALL	2642-01	0.68	Dungeness Crab - leg muscle	1	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1.5	<1.5	<3.1	<0.7	<0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.8	<1.8	<1.8	<2.3
5 2849-2 25-01-92	ALBERNI HARBOUR C1 1.4 KM SSW of OUTFALL	2642-02A	0.86	Dungeness Crab - leg muscle	1	<0.2	<0.2	<0.4	<0.4	<0.7	<0.7	<1.3	<1.3	<3.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.7	<0.7	<1.4	<1.4	<2.1
6 2849-2 25-01-92	ALBERNI HARBOUR C1 1.4 KM SSW of OUTFALL	2642-02B Duplicate	0.86	Dungeness Crab - leg muscle	1	<0.2	<0.2	<0.5	<0.5	<1.2	<1.2	<2.1	<2.1	<4.2	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.7	<1.7	<3.1	<3.1	<3.4	
	AVERAGE OF SAMPLES 5 AND 6			Dungeness Crab - leg muscle		<0.2	<0.2	<0.5	<0.5	<1.2	<1.2	<2.1	<2.1	<4.2	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.7	<1.7	<3.1	<3.1	<3.4	
7 2849-3 25-01-92	ALBERNI HARBOUR C1 1.4 KM SSW of OUTFALL	2642-03	0.87	Dungeness Crab - leg muscle	1	<0.2	<0.2	<0.6	<0.6	<1.1	<1.1	<1.3	<1.3	<3.5	<0.6	<0.6	<0.4	<0.4	<0.4	<0.4	<0.7	<0.7	<1.6	<1.6	<2.1	
	AVERAGE OF SAMPLES 4, 5 & 6, 7			Dungeness Crab - leg muscle		<0.2	<0.2	<0.6	<0.6	<1.2	<1.2	<2.1	<2.1	<4.2	<0.7	<0.7	<1.0	<1.0	<1.0	<1.0	<1.7	<1.7	<3.1	<3.1	<3.4	
8	POLLY POINT C2-1 2.9 KM S of OUTFALL	2601-09	0.69	Dungeness Crab - leg muscle	1	<1.0	<1.0	<1.4	<1.4	<4.1	<4.1	<5.1	<5.1	<14.0	4.1	4.1	<1.1	<1.1	<1.1	<1.1	<3.7	<3.7	<4.2	<4.2	<5.6	
9	POLLY POINT C2-2 2.9 KM S of OUTFALL	2601-10	0.84	Dungeness Crab - leg muscle	1	<0.7	<0.7	<1.0	<1.0	<2.9	3.9	<3.6	<3.6	<4.7	3.8	4.5	<0.6	<0.6	<0.6	<0.6	<2.4	<2.4	<4.4	<4.4	<3.4	
	AVERAGE OF SAMPLES 8 AND 9			Dungeness Crab - leg muscle		<1.0	<1.0	<1.4	<1.4	<4.1	<4.1	<5.1	<5.1	<14.0	4.0	4.3	<1.1	<1.1	<1.1	<1.1	<3.7	<3.7	<4.4	<4.4	<5.6	
10	POLLY POINT C2 2.9 KM S of OUTFALL	2601-06	4.16	Dungeness Crab - hepatopancreas	2	7.2	31.0	34.0	110.0	86.0	290.0	22.0	44.0	17.0	150.0	290.0	1.9	5.6	7.5	86.0	<2.6	81.0	17.0	34.0	<4.0	
11	STAMP NARROWS C4-1 6.0 KM S of OUTFALL	2601-11	0.89	Dungeness Crab - leg muscle	1	<2.0	<2.0	<2.9	<2.9	<8.1	<8.1	<10.0	<10.0	<17.0	4.7	4.7	<2.0	<2.0	<2.0	<2.0	<7.2	<7.2	<8.7	<8.7	<10.0	
12	STAMP NARROWS C4-2 6.0 KM S of OUTFALL	2601-12	0.81	Dungeness Crab - leg muscle	1	<0.7	<0.7	<1.0	<1.0	<2.8	2.9	<3.5	<3.5	<4.4	3.8	3.8	<0.7	<0.7	<0.7	<0.7	<2.6	<2.6	<3.0	<3.0	<3.6	

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NO.	SITE	LAB ID NO	% LIPID	SPECIES/TISSUE	IND. PER COMP.	2,3,7,8 SUBST. TCDD	TOTAL TCDD	2,3,7,8 SUBST. PCDD	TOTAL PCDD	2,3,7,8 SUBST. H6CDD	TOTAL H6CDD	2,3,7,8 SUBST. H7CDD	TOTAL H7CDD	OCDD	2,3,7,8 SUBST. TCDF	TOTAL TCDF	1,2,3,7,8 PCDF	2,3,4,7,8 PCDF	2,3,7,8 SUBST. PCDF	TOTAL PCDF	2,3,7,8 SUBST. H6CDF	TOTAL H6CDF	2,3,7,8 SUBST. H7CDF	TOTAL H7CDF	OCDF
13	STAMP NARROWS C4-3 6.0 KM S of OUTFALL	2601-13	0.81	Dungeness Crab - leg muscle	1	<0.7	<0.7	<1.0	<1.0	<2.9	3.2	<3.5	<3.5	<4.5	4.6	5.2	<0.8	<0.8	<0.8	<0.8	<2.6	<2.6	<3.0	<3.0	<3.7
	AVERAGE OF SAMPLES 11, 12, 13			Dungeness Crab - leg muscle		<2.0	<2.0	<2.9	<2.9	<8.1	<8.1	<10.0	<10.0	<17.0	4.4	4.6	<2.0	<2.0	<2.0	<2.0	<7.2	<7.2	<8.7	<8.7	<10.0
14 2849-5 26-01-92	STAMP NARROWS C4 6.0 KM S of OUTFALL	2642-05	0.87	Dungeness Crab - leg muscle	1	<0.2	<0.2	<0.4	<0.4	<1.0	<1.0	<2.1	<2.1	<3.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<2.5	<2.5	<2.5
15 2849-6 26-01-92	STAMP NARROWS C4 6.0 KM S of OUTFALL	2642-06	0.72	Dungeness Crab - leg muscle	1	<0.2	<0.2	<0.4	<0.4	<0.4	<0.4	<0.6	<0.6	<2.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.6	<0.6	<1.0
16 2849-7 26-01-92	STAMP NARROWS C4 6.0 KM S of OUTFALL	2642-07	0.83	Dungeness Crab - leg muscle	1	<0.2	<0.2	<0.4	<0.4	<0.5	<0.5	<1.2	<1.2	<2.2	<0.3	<0.3	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.9	<0.9	<1.5
	AVERAGE OF SAMPLES 14, 15, 16			Dungeness Crab - leg muscle		<0.2	<0.2	<0.4	<0.4	<1.0	<1.0	<2.1	<2.1	<3.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<2.5	<2.5	<2.5
17	STAMP NARROWS C4 6.0 KM S of OUTFALL	2601-07	11.00	Dungeness Crab - hepatopancreas	3	8.6	18.0	25.0	73.0	84.0	240.0	17.0	27.0	8.4	150.0	250.0	1.8	5.4	7.2	61.0	<2.4	44.0	9.6	15.0	<3.4
18 2849-8 26-01-92	STAMP NARROWS C4 6.0 KM S of OUTFALL	2642-08A	18.7	Dungeness Crab - hepatopancreas	3	5.2	19	19	81	76	260	14	25	6.7	60	130	1.5	3.5	5.0	58	5.2	63	14	19	<1.5
19 2849-8 26-01-92	STAMP NARROWS C4 6.0 KM S of OUTFALL	2642-08B Duplicate	18.7	Dungeness Crab - hepatopancreas	3	6.4	28	21	92	88	300	17	31	5.5	76	160	1.7	4.1	5.8	68	6.4	70	15	20	<1.0
	AVERAGE OF SAMPLES 18 AND 19			Dungeness Crab - hepatopancreas		5.8	23.5	20.0	86.5	82.0	280.0	15.5	28.0	6.1	68.0	145.0	1.6	3.8	5.4	63.0	5.8	66.5	14.5	19.5	<1.5
20	UNDERWOOD COVE C5-1 10.1 KM S of OUTFALL	2601-14	0.85	Dungeness Crab - leg muscle	1	<0.7	<0.7	<1.0	<1.0	<3.0	<3.0	<3.6	<3.6	<4.6	4.8	4.8	<0.8	<0.8	<0.8	<0.8	<2.7	<2.7	<3.1	<3.1	<3.7
21	UNDERWOOD COVE C5-2 10.1 KM S of OUTFALL	2601-15A	0.82	Dungeness Crab - leg muscle	1	<1.5	<1.5	<2.1	<2.1	<6.2	<6.2	<7.6	<7.6	<9.7	1.5	1.5	<1.4	<1.4	<1.4	<1.4	<5.6	<5.6	<6.6	<6.6	<8.0
22	UNDERWOOD COVE C5-2 10.1 KM S of OUTFALL	2601-15B	0.82	Dungeness Crab - leg muscle (duplicate)	1	<1.2	<1.2	<1.8	<1.8	<5.2	<5.2	<6.4	<6.4	<8.1	1.7	1.7	<1.2	<1.2	<1.2	<1.2	<4.7	<4.7	<5.5	<5.5	<6.7
	AVERAGE OF SAMPLES 21 AND 22			Dungeness Crab - leg muscle		<1.5	<1.5	<2.1	<2.1	<6.2	<6.2	<7.6	<7.6	<9.7	1.6	1.6	<1.4	<1.4	<1.4	<1.4	<5.6	<5.6	<6.6	<6.6	<8.0
23	UNDERWOOD COVE C5-3 10.1 KM S of OUTFALL	2601-16	0.88	Dungeness Crab - leg muscle	1	<0.8	<0.8	<1.1	<1.1	<3.2	<3.2	<3.9	<3.9	<4.9	1.2	1.2	<0.7	<0.7	<0.7	<0.7	<2.9	<2.9	<3.4	<3.4	<4.1
	AVERAGE OF SAMPLES 20, 21 & 22, 23			Dungeness Crab - leg muscle		<1.5	<1.5	<2.1	<2.1	<6.2	<6.2	<7.6	<7.6	<9.7	2.5	2.5	<1.4	<1.4	<1.4	<1.4	<5.6	<5.6	<6.6	<6.6	<8.0

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						SUBST. TCDD	TOTAL TCDD	SUBST. PCDD	TOTAL PCDD	SUBST. H6CDD	TOTAL H6CDD	SUBST. H7CDD	TOTAL H7CDD		SUBST. TCDF	TOTAL TCDF	PCDF	PCDF	SUBST. PCDF	TOTAL PCDF	SUBST. H6CDF	TOTAL H6CDF	SUBST. H7CDF	TOTAL H7CDF	OCDF	
24	UNDERWOOD COVE C5 10.1 KM S of OUTFALL	2601-08	10.20	Dungeness Crab - hepatopancreas	3	12.0	38.0	29.0	100.0	60.0	190.0	15.0	24.0	7.4	190.0	380.0	1.8	6.9	8.7	77.0	<2.2	34.0	7.1	9.0	<3.6	
25 2849-9 26-01-92	UNDERWOOD COVE C5 10.1 KM S of OUTFALL	2642-09	16.2	Dungeness Crab - hepatopancreas	3	5.5	25	14	70	44	160	8.8	16	5.4	52	130	1.3	3.1	4.4	47	3.5	35	6.1	9.6	<1.3	
26 2849-10 25-01-92	SPROAT NARROWS C6 14 KM S of OUTFALL	2642-10	21.8	Dungeness Crab - hepatopancreas	3	4.5	18	16	69	66	240	15	26	10	48	100	1.4	3.2	4.6	48	4.3	53	9.9	14	NDR(1.5)	
27 2849-11 06-90	SPROAT NARROWS C6 (1990) 14 KM S of OUTFALL	2642-11	21.5	Dungeness Crab - hepatopancreas	3	6.8	28	16	67	48	190	14	28	7.4	67	120	0.6	1.6	2.2	27	3.4	39	11	18	3.4	
28 2849-12 25-01-92	NAHMINT BAY C7 20 KM S of OUTFALL	2642-12	9.54	Dungeness Crab - hepatopancreas	3	2.8	7.0	14	50	54	170	8.0	13	2.4	24	48	0.8	2.1	2.9	32	2.4	38	8.8	13	<1.3	
29 2849-13 06-90	NAHMINT BAY C7(1990) 20 KM S of OUTFALL	2642-13	6.73	Dungeness Crab - hepatopancreas	3	4.8	18	13	59	36	130	7.3	14	5.1	52	100	0.6	1.8	2.4	32	0.7	27	7.1	12	NDR(1.5)	