

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: SAANICH INLET Event #: 1 Ship: VECTOR UTC Date (dd|mmm|yyyy): 29 | 09 | 10

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ LRL						
1	1	3190	1.170	100	☒ 100	X	X									
2	2	3113	1.416	75	☒ 75	X	X	X								BAD PLOT
3	3	3019	3.065	50	☒ 50	X	X									
4	4	1485	3.548	40	☒ 40	XX	X									
5	5	2085	3.507	30	☒ 30	X	X									
6	6	3193	3.343	20	☒ 20	X	XX		XX	XX						
7	7	2044	3.533	10	☒ 10	X	X		XX	XX						
8	8	2061	3.272	5	☒ 5	X	X									
9	9	3047	7.846	SFC	☒ 0	X	X		XX	XX						
10																
11																
12	4	3067	3.552													RE NAME & # FILE
13																FOR DUPLICATE
14																
15	*	10 d 11	FROM CAST # 2	- STA 59	ON THIS FILE											
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s):

Bottom Depth: 175 m

Transmisso Cleaned: (Y) N

	UTC	Local
Start	2332	1632
Bottom	2339	1639
End	2348	1648

Positional Information		
Start	Lat: <u>48</u> ° <u>39.39</u> N	Lon: <u>123</u> ° <u>29.98</u> W

Bottom	Lat: <u>48</u> ° <u>39.41</u> N	Lon: <u>123</u> ° <u>30.04</u> W
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End	Lat: <u>48</u> ° <u>39.42</u> N	Lon: <u>123</u> ° <u>30.09</u> W
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Oxygen Info For This Cast	
Blank Value:	<u>0.0017</u> mL · L ⁻¹
Std Value:	<u>0.8313</u> mL · L ⁻¹
*Date Run:	<u>29</u> <u>09</u> <u>10</u>
Analyst:	<u>H.M</u>

* Oxygen blanks and standards should be run daily, if possible

2391
2173
2966
4752
1483

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21

Station: 59

Event #: 314 G.G. 2x

Ship: Vector

UTC Date (dd|mmm|yyyy): 30 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation			Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓	Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	10	2056	3.116	222	✓		X	X									TITRATED MQ 1 ST SAMPLE
2	11	3194	3.128	200	✓		X	X	X								
3	12	2075	3.169	175	✓		X	XX									
4	13	3178	3.227	150	✓		X	X									
5	14	1201	3.326	125	✓		XX	X									
6	15	1327	3.488	100	✓		X	X									- spikes
7	16	2000	3.573	75	✓		X	X									- restart 0004.hxx
8	17	1326	3.693	50	✓		X	X									
9	18	1335	3.672	40	✓		X	XX									
10	19	570	3.679	30	✓		X	X									
11	20	1460	3.824	20	✓		XX	X		XX	XX						
12	21	3135	3.907	10	✓		X	X		XX	XX						
13	22	1459	3.948	5	✓		X	X									
14	20	612	4.025	surface	✓		X	X		XX	XX						
15																	
16																	
17	14	1414	3.335	125													
18	20	2066	3.793	20													
19																	
20	*	FIRST 2 SAMPLES (10 & 11) ARE ON PREVIOUS FILE (EVENT 41)															
21																	
22																	
23																	
24																	

Watchkeeper(s): HR/IM/JP

Bottom Depth: 230 m

Transmisso Cleaned: Y / N

	UTC	Local
Start	0225	19 25
Bottom	0232	19 32
End	0253	19 57

Positional Information

Lat:	48 °	37.80	N
Lon:	123 °	14.67	W

Start

Bottom

End

Lat:	48 °	37.72	N
Lon:	123 °	14.67	W

Lat:	48 °	37.78	N
Lon:	123 °	14.85	W

Oxygen Info For This Cast

Blank Value:	0.0017	mL · L ⁻¹
Std Value:	0.8313	mL · L ⁻¹
*Date Run:	29 09 10	
Analyst:	H.M.	

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: 102 Event #: 9 Ship: VECTOR UTC Date (dd|mmm|yyyy): 30 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ NPLC				
1	24	3190	1.720	250	✓ 252	x	x							
2	25	3113	1.739	250	✓ 249	x	x	x						
3	26	3019	1.739	200	✓ 202	x	x							
4	27	1485	1.715	175	✓ 173	xx	x							Big Wine C
5	28	2085	1.937	150	✓ 150	x	xx							3067 - 1.706
6	29	3198	2.007	125	✓ 125	x	x							wrong flask ID - fixed
7	30	2049	2.079	100	✓ 101	x	x							
8	31	2061	2.627	75	✓ 75	x	x							
9	32	3047	3.061	50	✓ 49	x	x							
10	33	2020	3.613	40	✓ 40	x	x							
11	34	3121	4.603	30	✓ 30	xx	x							
12	35	3090	5.202	20	✓ 19	x	xx		xx	xx				3151 - 4.591 pressure spikes
13	36	2068	5.415	10	✓ 10	x	x		xx	xx				
14	37	2042	5.728	5	✓ 5	x	x							
15	38		5.728	5	✓	x	x		xx	xx				No Trip - see above
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): (DT) 2 N²Bottom Depth: 256 mTransmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1216	0516
Bottom	1225	
End	1243	

Positional Information
Start
Lat: 48 ° 30 006 N
Lon: 124 ° 43 980 WBottom
Lat: 48 ° 30 022 N
Lon: 124 ° 43 812 WEnd
Lat: 48 ° 30 006 N
Lon: 124 ° 43 672 WOxygen Info For This Cast
Blank Value: 0.0017 mL · L⁻¹
Std Value: 0.8313 mL · L⁻¹
*Date Run: 29 | 09 | 10
Analyst: N²

*Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: 75 Event #: 12 Ship: VECTOR UTC Date (dd|mmm|yyyy): 30 | SEPT | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ HPLC				
1	39	2056	1.793	60m-5	✓ 225	xx	x							3194-1.775
2	40	2075	1.780	200	✓ 201			x						
3	41	3178	1.786	175	✓ 174									
4	42	1201	1.783	150	✓ 149									
5	43	1414	1.910	125	✓ 126									
6	44	1327	1.959	100	✓ 101									
7	45	2000	2.794	75	✓ 75		x							
8	46	1326	3.656	50	✓ 50									
9	47	1335	3.709	40	✓ 41									
10	48	570	3.827	30	✓ 29									
11	49	1460	3.869	20	✓ 20				xx	xx				
12	50	2060	5.052	10	✓ 10				xx	xx				3135-5.056
13	51	1459	5.921	5	✓ 4.7									
14	52	612	5.954	0	✓ 1.6	x	x		xx	xx				
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): (DT) 2 N2

Bottom Depth: 226 m

Transmisso Cleaned: Y / N

	UTC	Local
Start	1458	0758
Bottom	1503	0803
End	1520	

Positional Information

Start

Lat: 48 ° 28.162 N

Lon: 124 ° 32.926 W

Start

Bottom

Lat: 48 ° 28 135 N

Lon: 124 ° 32 940 W

Bottom

End

Lat: 48 ° 28 043 N

Lon: 124 ° 32 893 W

End

Oxygen Info For This Cast

Blank Value: 0.0017 mL • L⁻¹

Std Value: 0.8313 mL • L⁻¹

*Date Run: 29 | 09 | 10

Analyst: N2

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21

Station: 72

Event #: 16

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 30 | SEPT | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄				
1	53	3190	2.017	8-5	✓ 175	X	X							
2	54	3113	1.981	175	✓ 175			X						0.345
3	55	639	1.983	150	✓ 150		X							
4	56	1485	2.153	125	✓ 125									0.347
5	57	3067	2.470	100	✓ 100									
6	58	2065	2.486	75	✓ 75									
7	59	3198	3.172	50	✓ 50									0.523
8	60	2049	3.411	40	✓ 40	X								0.593
9	61	3047	4.179	30	✓ 30									0.683
10	62	2020	5.249	20	✓ 20				XX	XX				
11	63	3121	5.554	10	✓ 10				XX	XX				0.964
12	64	3151	5.620	5	✓ 5									
13	65	3090	5.637	0	✓ 0	X	X		XX	XX	XXX			0.912
14														
15														
16														
17														
18	60	2061	3.423	40										0.592
19														
20														
21														
22														
23														
24														

Watchkeeper(s): PE/NM/JP

Bottom Depth: 187 m

Transmisso Cleaned: (Y) / N

	Time	UTC	Local
Start		19:11	12:11
Bottom		19:18	12:18
End		19:31	12:31

Positional Information

Start

Lat: 48 ° 18.71 N

Lon: 124 ° 4.00 W

Bottom

Lat: 48 ° 18.86 N

Lon: 124 ° 3.87 W

End

Lat: 48 ° 19.17 N

Lon: 124 ° 3.97 W

Oxygen Info For This Cast

Blank Value: 0.0017 mL • L⁻¹

Std Value: 0.8313 mL • L⁻¹

*Date Run: 29/09/10

Analyst: H.M.

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: 69 Event #: 19 Ship: VECTOR UTC Date (dd|mmm|yyyy): 20 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	66	2056	1.892	6-5	☒	174	X	X								0.325
2	67	3194	1.886	150	☒	150			X							0.306
3	68	2075	1.786	125	☒	125										0.291
4	69	3178	2.326	100	☒	100										0.401
5	70	1201	2.744	75	☒	75										0.451
6	71	1414	3.254	50	☒	50										
7	72	1327	3.365	40	☒	40										
8	73	2000	3.440	30	☒	30										-bad curve
9	74	1326	3.766	20	☒	20			XX	XX						0.619
10	75	1335	4.042	10	☒	10			XX	XX						0.657
11	76	570	4.496	5	☒	5	X	X								
12	77	2060	4.677	0		0			XX	XX						0.810
13																
14																
15																
16																
17	76	1460	4.500	5												
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): RE/AM/JP

Bottom Depth: 179 m

Transmisso Cleaned: ☒ Y / ☐ N

	Time	UTC	Local
Start		2221	1521
Bottom		2226	1526
End		2242	1542

Positional Information

Start

Lat: 48 ° 15.66 N

Lon: 123 ° 43.28 W

Bottom

Lat: 48 ° 15.69 N

Lon: 123 ° 43.26 W

End

Lat: 48 ° 15.81 N

Lon: 123 ° 43.29 W

Oxygen Info For This Cast

Blank Value: 0.0017 mL · L⁻¹

Std Value: 0.8313 mL · L⁻¹

*Date Run: 29 | SEP | 2010

Analyst: H.M.

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: ADCD Event #: 22 Ship: VECTOR UTC Date (dd|mmm|yyyy): 01 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄				
1	78	3190	2.465	6-5	✓	115	X	X						0.392
2	79	3113	2.508	100	✓	100		X						
3	80	639	2.874	75	✓	75								0.464
4	81	1485	3.298	50	✓	50								0.530
5	82	3067	3.464	40	✓	40	X	X						0.591
6	83	3198	3.593	30	✓	30								0.591
7	84	2049	3.781	20	✓	20			XX	XX				
8	85	1377	4.091	10	✓	10			XX	XX				END PT CHECK 0.649
9	86	3047	4.252	5	✓	5								END PT CHECK 0.693
10	87	3019	4.336	SPE	✓	SPE			XX	XX				END PT CHECK 0.7165
11														
12														
13														
14														
15	82	2085	3.461	40										0.600
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): PC/HM/JP

Bottom Depth: 119 m

Transmisso Cleaned: Y / N

	UTC	Local
Time		
Start	01 48	18 48
Bottom	01 52	18 52
End	02 04	19 04

Positional Information				
Lat:	48 °	13 97	N	
Lon:	123 °	17.99	W	

Start

Lat:	48 °	13 97	N	
Lon:	123 °	17 95	W	

Bottom

Lat:	48 °	13.96	N	
Lon:	123 °	17.74	W	

End

Oxygen Info For This Cast	
Blank Value:	0.0017 mL · L ⁻¹
Std Value:	0.0313 mL · L ⁻¹
*Date Run:	29 SEPT 2010
Analyst:	H.M.

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: 65 Event #: 26 Ship: Vector UTC Date (dd|mmm|yyyy): 01 | Oct | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ HPLC						
1	88	3209	2.624	6-5	✓	122	x	x								
2	89	3184	2.850	100	✓	100		x								0.466
3	90	1317	2.950	75	✓	75										0.495
4	91	3191	3.326	50	✓	50										0.542
5	92	3166	3.464	40	✓	40										
6	93	471	3.610	30	✓	30										
7	94	1478	3.757	20	✓	20		x	xx	xy						0.591
8	95	2064	3.911	10	✓	10	x		xy	xy						
9	96	1497	4.131	5	✓	5										0.694
10	97	3038	4.209	5ft	✓	1			xy	xy						0.719
11																
12																
13																
14																
15	95	1338	3.905	10												
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): PC/NM/JP

Bottom Depth: 125 m

Transmisso Cleaned: (Y) / N

	UTC	Local
Start	<u>0434</u>	<u>2134</u>
Bottom	<u>0437</u>	<u>2137</u>
End	<u>0449</u>	<u>2149</u>

Positional Information

Start

Lat: 48 ° 15.87 N

Lon: 123 ° 9.87 W

Bottom

Lat: 48 ° 15.80 N

Lon: 123 ° 9.90 W

End

Lat: 48 ° 15.63 N

Lon: 123 ° 10.03 W

Oxygen Info For This Cast

Blank Value: 0.0017 mL · L⁻¹

Std Value: 0.8313 mL · L⁻¹

*Date Run: 29 | SEP | 2010

Analyst: HM

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: 62 Event #: 29 Ship: VECTOR UTC Date (dd|mmm|yyyy): 01 | Oct | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄				
1	98	3190	2.860	6-5	☒ 143	x	x							
2	99	3113	3.036	125	☒ 126			x						
3	100	639	3.153	100	☒ 100									
4	101	1485	3.397	75	☒ 74									
5	102	3067	3.575	50	☒ 50									
6	103	2085	3.646	40	☒ 40	x								
7	104	2049	3.805	30	☒ 30		x							
8	105	1377	3.966	20	☒ 19				xx	xx				- bad curve
9	106	3047	4.112	10	☒ 10				xx	xx				
10	107	3019	4.253	5	☒ 5									
11	108	3121	4.426	SPC	☒ 86				xx	xx				
12														
13														
14														
15														
16	103	3198	3.641	40										
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): (DT)² + N²

Bottom Depth: 148 m

Transmisso Cleaned: ☒ Y / N

Time	UTC	Local
Start	0730	0030
Bottom	0735	0035
End	0749	

Positional Information

Start

Lat: 48 ° 22 83 N

Lon: 123 ° 02 666 W

Bottom

Lat: 48 ° 22 817 N

Lon: 123 ° 02 760 W

End

Lat: 48 ° 22 844 N

Lon: 123 ° 02 992 W

TH10 N = 0.14693

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.0297 mL · L⁻¹

*Date Run: 01 | 10 | 10

Analyst: N²

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: 56 Event #: 35 Ship: Vector UTC Date (dd|mmm|yyyy): 01 | 10 | 10

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HP LC					
1	109	3209	3.267	B-5	✓ 196											
2	110	3184	3.290	200	✓ 196			X								
3	111	1317	3.308	175	✓											
4	112	3191	3.350	150	✓	X										
5	113	471	3.435	125	✓											
6	114	1478	3.495	100	✓											
7	115	2064	3.605	75	✓											
8	116	1338	3.942	50	✓											
9	117	1497	3.971	40	✓		X									
10	118	3038	4.016	30	✓											
11	119	1401	4.192	20	✓				X X		X X					
12	120	3174	4.465	10	✓				X X		X X					
13	121	2032	4.610	5	✓											
14	122	3098	4.767	0	✓				X X		X X					
15																
16																
4#	112	3166	3.356	150												
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): (DT) 2 + N2

Bottom Depth: 210 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1544	
Bottom	1549	
End	1604	

Positional Information
 Lat: 48 ° 46.22 N
 Lon: 123 ° 02.01 W

▼
 Lat: 48 ° 46.41 N
 Lon: 123 ° 01.85 W

▼
 Lat: 48 ° 46.71 N
 Lon: 123 ° 01.50 W

Oxygen Info For This Cast
 Blank Value: 0.8297 mL · L⁻¹ ✓
 Std Value: 0.0025 mL · L⁻¹ ✓
 *Date Run: 01 | 10 | 10
 Analyst: N2

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21

Station: 46

Event #: 44

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 01 | OCT | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ HPLC				
1	123	2056	3.331	150	✓	175								0.571
2	124	3194	3.343	150	✓	150		X						✓
3	125	2075	3.440	125	✓	125		X						0.559
4	126	3178	3.488	100	✓	100								✓
5	127	1201	3.404	75	✓	75								✓
6	128	1414	3.586	50	✓	50								✓
7	129	1327	3.599	40	✓	40	X							0.583
8	130	1326	3.662	30	✓	30								✓
9	131	1335	3.882	20	✓	20			XX	XX				0.632
10	132	570	5.009	10	✓	10			XX	XX				✓
11	133	1460	5.446	5	✓	5								0.968
12	134	2060	6.159	0		1.15	↓	↓	XX	XX				✓
13														
14														
15														
16														
17	129	2000	3.610	40										✓
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): PE/KM/JD

Bottom Depth: 178 m

Transmisso Cleaned: Y / N

	UTC	Local
Time		
Start	2110	1410
Bottom	2115	1415
End	2128	1428

Positional Information

Start

Lat: 48 ° 51.39 N

Lon: 123 ° 10.79 W

Bottom

Lat: 48 ° 51.36 N

Lon: 123 ° 10.76 W

End

Lat: 48 ° 51.28 N

Lon: 123 ° 10.65 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.8297 mL · L⁻¹

*Date Run: 01 | 10 | 10

Analyst: H.M.

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: 42 Event #: 48 Ship: Vector UTC Date (dd|mmm|yyyy): 02 | Oct | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ <u>APLC</u>						
1	135	3209	2.984	6-5	☒	315	✓	✓								0.488
2	136	3184	2.946	300	☒	300		✓	✓							✓
3	137	1317	3.032	250	V	250										0.507
4	138	3191	3.096	200	V	200										0.504
5	139	3166	3.115	175	V	175		✓								0.548
6	140	471	3.162	150	V	150										✓
7	141	1478	3.284	125	V	125										✓
8	142	2064	3.339	100	V	100										✓
9	143	1338	3.458	75	V	75	✓									0.568
10	144	3038	3.551	50	V	50										0.607
11	145	1401	3.621	40	V	40										0.567
12	146	3174	3.657	30	V	30										✓
13	147	2032	4.121	20	V	20	✓		xx	xx						✓
14	148	3052	5.298	10	V	10			xx	xx						✓
15	149	3109	5.994	5	V	5										1.033
16	150	1492	6.487	surface	V	1.04	✓	✓	xx	xx						✓
17																
18																
19	143	1497	3.451	75												✓
20																
21																
22																
23	147	3098	4.127	20												✓
24																

Watchkeeper(s): JP/R/KM

Bottom Depth: 320 m

Transmisso Cleaned: ☒ Y / N

	UTC	Local
Start	0059	1759
Bottom	0107	1807
End	0134	1834

Positional Information

Start

Lat: 49 ° 1.74 N

Lon: 123 ° 26.22 W

Bottom

Lat: 49 ° 1.69 N

Lon: 123 ° 26.23 W

End

Lat: 49 ° 1.47 N

Lon: 123 ° 26.44 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL • L⁻¹

Std Value: 0.8297 mL • L⁻¹

*Date Run: 01 | 10 | 10

Analyst: H.M.

*Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: 39 Event #: 53 Ship: Vector UTC Date (dd|mmm|yyyy): 02 | Oct | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation			Samples Taken										Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒ Pressure		Oxy	Nut	Sal	Chl a	NH ₄ HPLC						
1	151	3190	2.955	6-5	V	371	x	x									
2	152	3113	2.978	350	V	350			x								
3	153	639	3.034	300	V	300											0.489
4	154	1485	3.052	250	V	250											0.490
5	155	3067	3.086	200	V	200		x									
6	156	2085	3.123	175	V	175											0.538
7	157	3198	3.170	150	V	150											0.522
8	158	2049	3.255	125	V	125											0.566
9	159	1377	3.335	100	V	100		x									0.532
10	160	3047	3.410	75	V	75											0.556
11	161	3019	3.512	50	V	50											
12	162	3121	3.599	40	V	40											
13	163	3151	3.802	30	V	30	x										
14	164	2068	4.604	20	V	20				xx	xx						
15	165	2047	5.587	10	V	10				xx	xx						> looks like reps
16	166	3201	5.588	5	V	5	x										
17	167	2017	6.453	surface	V	1.12				xx	xx						
18																	
19	163	3090	3.791	30													
20																	
21	166	3075	6.305	5													- not rep
22																	
23																	
24																	

Watchkeeper(s): PC/NM/JPBottom Depth: 374 mTransmisso Cleaned: ☒ Y / ☐ N

	Time	UTC	Local
Start		0520	1020
Bottom		0528	1028
End		0548	1048

Positional Information
Start
Lat: 49 ° 9.75 N
Lon: 123 ° 32.88 WBottom
Lat: 49 ° 9.72 N
Lon: 123 ° 32.92 WEnd
Lat: 49 ° 9.65 N
Lon: 123 ° 33.14 WOxygen Info For This Cast
Blank Value: 0.0025 mL • L⁻¹
Std Value: 0.8297 mL • L⁻¹
*Date Run: 01 | 10 | 10
Analyst: HM

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: 27 Event #: 56/57 Ship: VECTOR UTC Date (dd|mmm|yyyy): 02 | OCT | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ NPLE						
1	168	2056	3.091	6-5	✓ 342	X	X									
2	169	3194	3.039	300	✓ 300			X								
3	170	2075	3.068	250	✓ 250											
4	171	3178	3.150	175	✓ 172		X									
5	172	1201	3.140	150	✓ 150											
6	173	1414	3.195	125	✓ 125											
7	174	1327	3.264	100	✓ 100	X										
8	175	1326	3.362	75	✓ 75											
9	176	1335	3.369	50	✓ 50											
10	177	570	3.466	40	✓ 40		X									
11	178	1460	3.729	30	✓ 30	X										
12	179	3135	4.716	20	✓ 20				XX	XX						
13	180	1459	5.443	10	✓ 10				XX	XX						
14	181	612	6.126	5	✓ 5.3											
15	182	3116	6.218	sec	✓ 1.5				XX	XX						
16																
17	174	2060	3.261	100												
18																
1110	178	2060	3.729	30												
20																
21																
22																
23																
24																

Watchkeeper(s): DT², N²

Bottom Depth: 347 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	0838	0138
Bottom	0846	0146
End	0912	0212

Positional Information

Start

Lat: 49 ° 19.135 N

Lon: 123 ° 48.049 W

Bottom

Lat: 49 ° 19.141 N

Lon: 123 ° 48.041 W

End

Lat: 49 ° 19.163 N

Lon: 123 ° 48.026 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL • L⁻¹

Std Value: 0.8297 mL • L⁻¹

*Date Run: 01 | 10 | 10

Analyst: N²

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: R05 2 Event #: 61 Ship: Vector UTC Date (dd|mmm|yyyy): 02 | OCT | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HP LC			
1	183	3190	2.942	B-5	✓ 271									
2	184	3113	2.955	B-5	✓ 271			X						
3	185	639	2.928	250	✓									
4	186	1485	2.945	200	✓	X								
5	187	2085	2.937	175	✓ 174									
6	188	3198	3.011	150	✓ 149									
7	189	2049	3.093	125	✓	X	X							
8	190	3047	3.182	100	✓									
9	191	3019	3.300	75	✓ 74									
10	192	3121	3.651	50	✓									
11	193	3151	3.924	40	✓									
12	194	3090	4.458	30	✓				XX		XX			
13	195	2068	4.533	20	✓				XX		XX			
14	196	2047	5.302	10	✓									
15	197	3201	5.977	5	✓				XX		XX			
16	198			0	✓ 1.0									NOT SAMPLED, NO LABELS PRINTED
17														
18														
4	186	3067	2.950	200										
20														
7	189	1377	3.089	125										
22														
23														
24														

Watchkeeper(s): (DT)² + N²

Bottom Depth: 275 m

Transmisso Cleaned: Y / N

	UTC	Local
Time Start	1344	0644
Bottom	1350	0650
End	1406	0706

Positional Information

Start Lat: 49 ° 24.110 N

Lon: 124 ° 09.284 W

Bottom Lat: 49 ° 24.107 N

Lon: 124 ° 09.294 W

End Lat: 49 ° 24.101 N

Lon: 124 ° 09.300 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.8297 mL · L⁻¹

*Date Run: 01 | 10 | 10

Analyst: NL

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: 3 Event #: 64 Ship: VECTOR UTC Date (dd|mmm|yyyy): 02 | OCT | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed √ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ HPLC						
1	199	3209	2.971	B-5	✓ 317	1										
2	200	3184	2.903	300	✓	xx		X								
3	201	3191	2.910	250	✓											
4	202	3166	2.915	200	✓											
5	203	471	2.908	175	✓											
6	204	1478	3.015	150	✓											
7	205	2064	2.998	125	✓											
8	206	3040	3.159	100	✓											
9	207	1497	3.212	75	✓											
10	208	3038	3.404	50	✓		X									
11	209	1401	3.589	40	✓											
12	210	3174	4.200	30	✓											
13	211	2032	5.088	20	✓				XX	XX						
14	212	3098	5.707	10	✓	xx			xx	xx						
15	213	3109	6.000	5	✓	1										
16	214	1492	6.106	0	✓ .865	1			XX	XX						
17																
18																
19																
20	200	1317	2.899	300												
21	212	3052	5.699	10												
22																
23																
24																

Watchkeeper(s): (OT)² + N²

Bottom Depth: 321 m

Transmisso Cleaned: (Y) / N

	UTC	Local
Start	1616	916
Bottom	1624	924
End	1643	0943

Positional Information

Start Lat: 49 ° 26.59 N
Lon: 124 ° 20.224 W

Bottom Lat: 49 ° 26.62 N
Lon: 124 ° 20.36 W

End Lat: 49 ° 26.628 N
Lon: 124 ° 20.653 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.8297 mL · L⁻¹

*Date Run: 01/10/10

Analyst: N²

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21

Station: 6

Event #: 66

Ship: Vector

UTC Date (dd|mmm|yyyy): 02 | Oct | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	-NH ₄				
1	215	3190	2.835	6-5	✓ 188									✓
2	216	3113	2.909	175	✓ 175			X						✓
3	217	639	2.940	150	✓ 150									0.974
4	218	1485	3.020	125	✓ 125									✓
5	219	3067	3.062	100	✓ 100									✓
6	220	2085	3.216	75	✓ 75									✓
7	221	3198	3.794	50	✓ 50	X								0.624
8	222	1377	4.174	40	✓ 40									0.664
9	223	3047	4.500	30	✓ 30									0.734
10	224	3019	4.915	20	✓ 20				xx	xx				0.913
11	225	3121	5.433	10	✓ 10				xx	xx				0.943
12	226	3151	5.859	5	✓ 5.3	X	X							1.009
13	227	2068	6.002	surface	✓ 0.9	✓	✓		xx	xx				1.025
14														
15														
16														
17	221	2049	3.781	50										✓
18														
19	226	3090	5.848	5										0.947
20														
21														Damen sampled
22														
23														
24														

Watchkeeper(s): DT2 J2

Bottom Depth: 192 m

Transmisso Cleaned: (Y) / N

	Time	UTC	Local
Start		18:13	11:13
Bottom		18:19	11:19
End		18:33	11:33

Positional Information

Start

Lat: 49 ° 30.624 N

Lon: 124 ° 27.830 W

Bottom

Lat: 49 ° 30.620 N

Lon: 124 ° 27.703 W

End

Lat: 49 ° 30.576 N

Lon: 124 ° 27.527 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.8297 mL · L⁻¹

*Date Run: 01 | 10 | 10

Analyst: H.M.

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: 9 Event #: 68 Ship: Vector UTC Date (dd|mmm|yyyy): 02 | Oct | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	228	2056	2.762	165	V	165										✓
2	229	1386	2.742	150	V	150										✓
3	230	3061	2.981	125	V	125										✓
4	231	3178	3.121	100	V	100										0.539
5	232	1201	3.238	75	V	75										0.531
6	233	1414	3.617	50	V	50										0.578
7	234	1327	4.165	40	V	40										0.674
8	235	3107	4.434	30	V	30	X									0.756
9	236	1335	4.827	20	V	20			xx	xx						0.785
10	237	570	5.269	10	V	10			xx	xx						✓
11	238	3118	5.739	5	V	5		X								✓
12	239	2060	5.804	surface	V	0.89	V	V	xx	xx						1.005
13																
14																
15																
16																
17																
18	235	1326	4.447	30												✓
19																
20																
21																
22																
23																
24																

Watchkeeper(s): R/NM/JP

Bottom Depth: 165 m

Transmisso Cleaned: ☒ Y / ☐ N

	Time	UTC	Local
Start		2017	13 17
Bottom		2022	13 22
End		2035	13 35

Positional Information

Start

Lat: 49 ° 35.52 N

Lon: 124 ° 38.28 W

Bottom

Lat: 49 ° 35.52 N

Lon: 124 ° 38.34 W

End

Lat: 49 ° 35.57 N

Lon: 124 ° 38.37 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.8297 mL · L⁻¹

*Date Run: 01 | 10 | 10

Analyst: H.M.

*Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: 12 Event #: 71 Ship: Vector UTC Date (dd|mmm|yyyy): 02 | 10 | 10

Niskin #	Sample #	Oxygen Titrations		Rosette Operation			Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure		Oxy	Nut	Sal	Chl a	NH ₄ HPLC						
1	240	3209	2.848	6-5	V	351	X	X									0.465
2	241	3184	2.823	350	V	350	X		X								0.463
3	242	3191	2.879	300	V	300		X									✓
4	243	3166	2.915	250	V	250											0.513
5	244	471	2.988	200	V	200	X										✓
6	245	2064	3.009	175	V	175		X									0.524
7	246	3040	3.052	150	V	150											✓
8	247	1497	3.105	125	V	125											0.523
9	248	3038	3.133	100	V	100											✓
10	249	1401	3.140	75	V	75											✓
11	250	3174	3.910	50	V	50											✓
12	251	2032	4.069	40	V	40											- SAMPLE # wrong 250/251 ✓
13	252	3098	4.519	30	V	30											- BAD END PT. 0.780"D
14	253	3052	5.056	20	V	20				XX	XX						✓
15	254	3109	6.087	10	V	10				XX	XX						1.049
16	255	1492	6.231	5	V	5											1.049
17	256	3057	6.282	surface	V	1.16				XX	XX						✓
18																	
19																	
20	241	1317	2.827	350													0.474
21																	0.472
22	244	1478	2.996	200													
23																	
24																	

Watchkeeper(s): PC HM JP

Bottom Depth: 356 m

Transmisso Cleaned: (Y) / N

	Time	UTC	Local
Start		22:22	15:22
Bottom		22:30	15:30
End		22:50	15:50

Positional Information

Start

Lat: 49 ° 43.56 N

Lon: 124 ° 40.78 W

Bottom

Lat: 49 ° 43.53 N

Lon: 124 ° 40.72 W

End

Lat: 49 ° 43.44 N

Lon: 124 ° 40.50 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.8297 mL · L⁻¹

*Date Run: 01 | 10 | 10

Analyst: H-M

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: 14 Event #: 77 Ship: Vector UTC Date (dd|mmm|yyyy): 03 | OCT | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ HPLC						
1	257	3190	2.879	8-5	✓	309	x	x								✓
2	258	3113	2.863	300	✓	300		x								0.498
3	259	639	2.897	250	✓	250										✓
4	260	1485	2.920	200	✓	200										0.469
5	261	3067	2.974	175	✓	175										0.508
6	262	2085	3.048	150	✓	150										0.528
7	263	3198	3.017	125	✓	125										0.497
8	264	2049	3.099	100	✓	100		x								✓
9	265	1377	3.038	75	✓	72	x									0.486
10	266	3019	3.810	50	✓	50										✓
11	267	3121	4.166	40	✓	40										✓
12	268	3151	4.221	30	✓	30		x								✓
13	269	3090	4.602	20	✓	20	x		xx	xx						✓
14	270	2047	4.870	10	✓	10			xx	xx						0.837
15	271	3201	5.989	5	✓	5										✓
16	272	3075	6.385	surface	✓	1.2			xx	xx						✓
17																
18																
19	265	3047	3.040	75												✓
20																
21	269	2068	4.598	20												✓
22																
23																
24																

Watchkeeper(s): PC/WM/JP

Bottom Depth: 314 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	0506	2206
Bottom	0512	2212
End	0531	2231

Positional Information

Start

Lat: 49 ° 52.92 N

Lon: 124 ° 59.65 W

Bottom

Lat: 49 ° 52.97 N

Lon: 124 ° 59.65 W

End

Lat: 49 ° 52.92 N

Lon: 124 ° 59.61 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL • L⁻¹

Std Value: 0.8297 mL • L⁻¹

*Date Run: 01 | 10 | 10

Analyst: U.M.

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2010-21 Station: 16 Event #: 75 Ship: Vector UTC Date (dd|mmm|yyyy): 03 | 10 | 10

Niskin #	Sample #	Oxygen Titrations		Rosette Operation			Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒	Pressure	Oxy	Nut	Sal	Chl a	NH ₄ NPLC						
1	273	3209	2.947	6-5	☒	150	X	X									SAMPLE # WRONG in FILE ✓
2	274	3184	3.001	125	☒	125			X								✓
3	275	1317	3.044	100	☒	100											0.510
4	276	3191	3.071	75	☒	75											0.500
5	277	3166	3.716	50	☒	50	X										0.653
6	278	1478	3.904	40	☒	40											0.614
7	279	2064	4.322	30	☒	30		X									✓
8	280	3040	4.463	20	☒	20				xx	xx						✓
9	281	1497	4.670	10	☒	10				xx	xx						0.785
10	282	3038	4.787	5	☒	5											✓
11	283	1401	5.654	surface	☒	1.3				xx	xx						0.885
12																	
13																	
14	277	471	3.721	50													✓
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): PC/NM/JP

Bottom Depth: 154 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0232	2032
Bottom	0236	2036
End	0246	2046

Positional Information

Start

Lat: 49 ° 57.66 N

Lon: 125 ° 8.85 W

Start

Bottom

Lat: 49 ° 57.62 N

Lon: 125 ° 8.96 W

Bottom

End

Lat: 49 ° 57.55 N

Lon: 125 ° 9.12 W

End

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.8297 mL · L⁻¹

*Date Run: 01 | 10 | 10

Analyst: HM

* Oxygen blanks and standards should be run daily, if possible