

Water Properties Group

Rosette Log

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

Cruise ID: 2011-10 Station: S1 Event #: 1 Ship: Vector UTC Date (dd|mmm|yyyy): 9 | Sep | 2011

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	T			
1	1	2068	1.042	100	☒ 100			x			9.2			MAY BE ON BLANKS FILE
2	2	1144	0.893	75	☒ 75						9.7			
3	3	631	2.788	56	☒ 50						10.5			
4	4	460	2.946	46	☒ 40		x				10.5			
5	5	745	3.099	30	☒ 30						11.0			
6	6	1475	3.437	20	☒ 20	x			xx	xx	12.3			dop 1300 3443
7	7	1395	5.235	16	☒ 10				xx	xx	13.6			ml/l
8	8	1321	6.330	5	☒ 5						14.5			
9	9	1406	7.373	Surf.	☒ 1.7	↓	↓		xx	xx	16.1			
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): 108

Bottom Depth: 184 m

Transmisso Cleaned: Y / N

	UTC	Local
Time		
Start	2158	1458
Bottom	2203	1503
End	2212	1512

Positional Information

Start Lat: 48 ° 39.32 N
Lon: 123 ° 30.26 W

Start

Bottom Lat: 48 ° 39.32 N
Lon: 123 ° 30.26 W

Bottom

End Lat: 48 ° 39.39 N
Lon: 123 ° 30.30 W

End

Oxygen Info For This Cast

Blank Value: 0.0037 mL · L⁻¹
Std Value: 0.697 mL · L⁻¹
*Date Run: 9/9/11
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: 2011-10 Station: 59 Event #: 3 Ship: VECTOR UTC Date (dd|mmm|yyyy): 10 | 9 | 11

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken						DIC ALK pH			Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄					
1	10	708	2.815	6-5	☒ 220	☒	☒					X	X	8.9	
2	11	1421	2.762	200	☒			☒						8.7	
3	12	1488	2.786	175	☒									8.8	
4	13	3181	2.908	150	☒	☒						X	X	8.9	1322 Dup 2.897
5	14	1481	3.008	125	☒		☒							9.1	
6	15	3137	3.241	100	☒									9.6	
7	16	3055	3.321	75	☒							X	X	9.6	
8	17	3007	3.953	50	☒									10.7	
9	18	1400	4.193	40	☒									11.0	
10	19	2033	4.431	30	☒		☒					X	X	11.3	
11	20	1311	4.501	20	☒	☒			XX	XX				11.4	1490 Dup 4.507
12	21	2069	4.506	10	☒				XX	XX		XX	XX	11.4	
13	22	690	4.576	5	☒									11.5	
14	23	2065	4.876	sf2	☒	☒	☒		XX	XX		X	X	11.9	
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): H.M.H./E.T.B.

Bottom Depth: 230 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Time Start	0244	1944
Bottom	0249	
End	0307	

Positional Information

Start Lat: 48 ° 37.80 N
Lon: 123 ° 14.62 W

Bottom Lat: 48 ° 37.79 N
Lon: 123 ° 14.60 W

End Lat: 48 ° 37.79 N
Lon: 123 ° 14.60 W

Oxygen Info For This Cast

Blank Value: 0.0037 mL · L⁻¹
Std Value: 0.697 mL · L⁻¹
*Date Run: 9 | 9 | 11
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: 2011-10 Station: 102 Event #: 7 Ship: Vector UTC Date (dd|mmm|yyyy): 10 | SEP | 2011

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	PH/10	T		
1	24	3191	1.919		✓	245						7.1		
2	25	3166	1.825	200	✓	199		x				7.1		
3	26	3160	1.847	175	✓	174						7.3		
4	27	471	2.000	150	✓	149	✓					7.4		
5	28	3040	2.418	125	✓	122		✓				7.6		
6	29	1401	N.S.	100	✓	100						7.7		SPRING TOO TIGHT PULLED LID OFF
7	30	2032	2.586	75	✓	74						7.8		
8	31	2035	3.002	50	✓	49						8.2		
9	32	3098	2.896	40	✓	40						8.3		
10	33	3038	2.977	30	✓	30		✓				8.7		
11	34	1497	3.365	20	✓	20	✓		++	++		9.2		
12	35	1317	3.926	10	✓	10			++	++		9.9		
13	36	3109	4.051	5	✓	5						10.3		
14	37	3171	4.921	SURF(2)	✓	3.2	↓	↓	xx	xx	✓✓✓	11.4		
15														
16														
17	27	2064	2.085	150								7.4		
18	34	3174	3.335	20								9.2		
19														
20														
21														
22														
23														
24														

Watchkeeper(s): R/DM/FL

Bottom Depth: 254 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	1358	658
Bottom	1405	705
End	1420	720

Positional Information

Start Lat: 48 ° 30.00 N
Lon: 124 ° 44.01 W

Bottom Lat: 48 ° 30.05 N
Lon: 124 ° 44.09 W

End Lat: 48 ° 30.03 N
Lon: 124 ° 44.09 W

Oxygen Info For This Cast

Blank Value: 0.0037 mL • L⁻¹
Std Value: 0.697 mL • L⁻¹
*Date Run: 919111
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: 2011-10 Station: 75 Event #: 10 Ship: VECTOR UTC Date (dd|mmm|yyyy): 10 | SEP | 2011

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 ML	T			
1	38	708	2.024	5-5	☒ 215						7.6			
2	39	1421	1.985	200	☒ 200			☒			7.5			
3	40	1488	2.038	175	☒ 175	☒					7.4			3181 dup
4	41	1322	2.106	150	☒ 150		☒				7.5			→ leaked → not air tight
5	42	1481	2.330	125	☒ 125						7.7			
6	43	3137	2.620	100	☒ 100						8.0			
7	44	3055	2.845	75	☒ 75						8.2			
8	45	3007	3.106	50	☒ 50						9.2			
9	46	1400	3.508	40	☒ 40						9.6			
10	47	2023	3.677	30	☒ 30	☒					9.9			removed sensor on 2301
11	48	1490	3.900	20	☒ 20		☒		☒	☒	10.3			1311 dup
12	49	2069	3.975	10	☒ 10				☒	☒	10.3			
13	50	690	4.098	5	☒ 5						10.5			
14	51	2065	4.489	stc	☒ 3.1				☒	☒	10.8			
15														
16														
17														
310	40	301	2.023	175										
1010	47	1311	3.674	30										
20														
21														
22														
23														
24														

Watchkeeper(s): IC/BM/FL

Bottom Depth: 221 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	1723	1023
Bottom	1729	1029
End	1745	1045

Positional Information

Start

Lat: 48 ° 28.19 N

Lon: 124 ° 32.78 W

Bottom

Lat: 48 ° 28.18 N

Lon: 124 ° 32.79 W

End

Lat: 48 ° 28.20 N

Lon: 124 ° 32.75 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.696 mL · L⁻¹

*Date Run: 10.9.11

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: 2011-10 Station: 72 Event #: 13 Ship: VECTOR UTC Date (dd|mmm|yyyy): 10 | SEP | 2011

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 NRFC	DIC	pH	T	
1	52	3191	1.944	5-5	☒ 184						X	X	7.6	
2	53	3166	1.953	175	☒								7.7	
3	54	3160	1.942	150	☒						X	X	7.5	
4	55	471	1.944	125	☒	☒							7.5	
5	56	3046	2.242	100	☒		☒						7.6	N.G. - BUBBLE LEAKS
6	57	3204	2.499	75	☒						X	X	7.8	
7	58	2032	2.964	50	☒								8.9	
8	59	2035	3.219	40	☒								9.3	
9	60	3098	3.410	30	☒						XX	XX	9.7	
10	61	3038	3.598	20	☒		☒		☒	☒			10.0	
11	62	1497	4.593	10	☒	☒			☒	☒	X	X	11.4	
12	63	1317	4.700	5	☒								11.7	
13	64	3109	4.785	sfc	☒ 25				☒	☒	X	X	11.8	
14														
15														
16	55 (dup)	2064	1.957	125										
17	62 (dup)	3174	4.588	10										
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): HM / MH / ET

Bottom Depth: 186 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2221	1521
Bottom	2226	
End	2241	

Positional Information

Start

Lat: 48 ° 18.59 N

Lon: 124 ° 04.01 W

Bottom

Lat: 48 ° 18.61 N

Lon: 124 ° 04.02 W

End

Lat: 48 ° 18.61 N

Lon: 124 ° 04.03 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.696 mL · L⁻¹

*Date Run: 10 | 9 | 11

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: 2011-10 Station: 69 Event #: 16 Ship: VECTOR UTC Date (dd|mmm|yyyy): 11 | 9 | 11

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	T°					
1	65	1298	2.003	168	☒ B-10	☒	☒				7.6					
2	66	528	1.982	150	☒	☒		☒			7.6					
3	67	1408	1.978	125	☒						7.5					
4	68	1307	1.990	100	☒						7.6					
5	69	1392	2.335	75	☒						7.9					
6	70	3206	2.390	50	☒	☒					8.3					
7	71	1464	3.050	40	☒						9.1					
8	72	3126	3.285	30	☒		☒				9.5					
9	73	1378	3.652	20	☒				☒	☒	10.0					
10	74	6417	4.709	10	☒	☒	☒		☒	☒	10.7					
11	75	621	5.075	5	☒						12.0					
12	76	569	5.106	SURF	☒	☒	☒		☒	☒	12.0					
13																
14																
15	70	3090	2.374													
16	74	3157	4.708													
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): HM / MH / ET

Bottom Depth: 176 m

Transmisso Cleaned: ☒ Y ☐ N

	UTC	Local
Start	0117	1817
Bottom	0122	
End	0136	

Positional Information
 Lat: 48 ° 15.61 N
 Lon: 123 ° 43.30 W

▼
 Lat: 48 ° 15.61 N
 Lon: 123 ° 43.27 W

▼
 Lat: 48 ° 15.61 N
 Lon: 123 ° 43.29 W

Oxygen Info For This Cast
 Blank Value: 0.0025 mL · L⁻¹
 Std Value: 0.696 mL · L⁻¹
 *Date Run: 10 | 9 | 11
 Analyst: HM

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

Water Properties Group

Rosette Log

Institute of Ocean

es Division, Sidney, BC

Cruise ID: 2011-10

Station: ADCP

Event #: 18

Ship: VE

Id|mmm|yyyy): 11 | 9 | 11

Should be
Event #19

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken							
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	+		
1	77	3191	2.129	108	☒ B-10	☒	☒				8.0		
2	78	3166	2.380	75	☒			☒			8.3		
3	79	3160	2.890	50	☒						9.0		
4	80	471	2.972	40	☒	☒					9.1		
5	81	3040	3.169	30	☒						9.4		
6	82	3209	3.432	20	☒				☒	☒	9.8		
7	83	2032	3.483	10	☒		☒		☒	☒	9.9		
8	84	3035	4.147	5	☒						10.6		
9	85	3098	4.175	SURF	☒				☒	☒	10.6		
10													
11													
12	80	2064	2.959										
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													

Watchkeeper(s): H.M./M.H./E.S.

Bottom Depth: 118 m

Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	0458	2158
Bottom	0501	
End	0511	

Positional Information

Start

Lat: 48 ° 13.99 N

Lon: 123 ° 17.99 W

Bottom

Lat: 48 ° 14.01 N

Lon: 123 ° 18.02 W

End

Lat: 48 ° 14.00 N

Lon: 123 ° 18.00 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.696 mL · L⁻¹

*Date Run: 10 | 9 | 11

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: 2011-10 Station: 65 Event #: 23 Ship: VECTOR UTC Date (dd|mmm|yyyy): 11 | SEP | 2011

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 NO ₃	Toc			
1	86	1298	2.269	5-5	☒ 122	☒	☒				7.9			
2	87	528	3.346	100	☒ 100			☒			8.1			BUBBLE on Lens CP = 84%
3	88	1408	2.579	75	☒ 75	☒					8.5			
4	89	1392	2.923	50	☒ 50						9.0			
5	90	3206	3.230	40	☒ 40						9.5			
6	91	3090	3.708	30	☒ 30						10.1			
7	92	1404	3.902	20	☒ 20		☒		☒	☒	10.4			
8	93	3126	4.146	10	☒ 10				☒	☒	10.7			
9	94	1378	4.396	5	☒ 5						10.9			
10	95	3157	4.476	SURF (2)	☒ 2.1	☒	☒		☒	☒	11.0			
11														
12														
13	88	1307	2.591								8.5			
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): RE/BM/FL

Bottom Depth: 128 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0752	0052
Bottom	0756	0056
End	0807	0107

Positional Information

Start

Lat: 48 ° 15.88 N

Lon: 123 ° 9.81 W

Bottom

Lat: 48 ° 15.87 N

Lon: 123 ° 9.81 W

End

Lat: 48 ° 15.78 N

Lon: 123 ° 9.82 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.696 mL · L⁻¹

*Date Run: 10 | 9 | 11

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: 2011-10 Station: 62 Event #: 26 Ship: VECTOR UTC Date (dd|mmm|yyyy): 11 | SEP | 2011

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	TPC			
1	96	3191	2.273	6-5	☒ 144	☒	☒				8.1			
2	97	3166	2.302	125	☒ 124			☒			8.1			
3	98	3160	2.516	100	☒ 99						8.5			
4	99	471	2.972	75	☒ 74	☒					9.3			
5	100	3040	3.383	50	☒ 49						9.9			
6	101	3204	3.474	40	☒ 39		☒				10.1			
7	102	2032	3.782	30	☒ 29						10.4			
8	103	2035	3.954	20	☒ 19				☒	☒	10.5			
9	104	3098	3.935	10	☒ 9				☒	☒	10.6			
10	105	3038	3.947	5	☒ 5						10.6			
11	106	1497	3.962	SUR	☒ 2.2	☒	☒		☒	☒	10.6			
12														
13														
14	99	2064	2.965								9.3			
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): PC/RM/FL

Bottom Depth: 147 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1032	0332
Bottom	1037	0337
End	1047	0347

Positional Information

Start

Lat: 48 ° 22.80 N

Lon: 123 ° 2.59 W

Bottom

Lat: 48 ° 22.86 N

Lon: 123 ° 2.55 W

End

Lat: 48 ° 22.84 N

Lon: 123 ° 2.46 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.696 mL · L⁻¹

*Date Run: 10 | 9 | 11

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: 2011-10

Station: 56

Event #: 31

Ship: Vector

UTC Date (dd|mmm|yyyy): 11 | Sep | 2011

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	T · C			
1	107	631	3.032	6-5	✓ 140	✓	✓				9.7			max depth
2	108			200	✓ 125			✓						redundant
3	109			175	✓ 125		✓							redundant
4	110			150	✓ 125									redundant
5	111	745	3.106	125	✓ 125	✓		✓			9.8			
6	112	1300	3.455	100	✓ 100						10.4			
7	113	1395	3.606	75	✓ 76						10.6			
8	114	1321	3.747	50	✓ 49.6						11.1			
9	115	1406	3.928	40	✓ 38.9						11.2			
10	116	1407	3.894	30	✓ 30.4						11.2			
11	117	1476	4.538	20	✓ 19.0				✓✓	✓✓	12.7			
12	118	1123	4.629	10	✓ 11.2				✓✓	✓✓	13.0			
13	119	1330	5.249	5	✓ 4.5						14.6			
14	120	1411	6.066	Sur	✓ 1.8	✓	✓		✓✓	✓✓	16.7			
15														
16														
17	111	1475	3.133								9.8			
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): FL/BSM/PC

Bottom Depth: 150 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1649	0949
Bottom	1703	1003
End	1714	1014

Positional Information

Start
Lat: 48 ° 46.89 N
Lon: 123 ° 0.44 W

Bottom
Lat: 48 ° 46.39 N
Lon: 123 ° 0.10 W

End
Lat: 48 ° 45.91 N
Lon: 123 ° 0.13 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.696 mL · L⁻¹

*Date Run: 10 | 9 | 11

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: 2011-10 Station: 46 Event #: 39 Ship: Vector UTC Date (dd|mmm|yyyy): 11 | 09 | 11

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	121	569	3.030	6-5	☒ 170	☒	☒				9.7			
2	122	621	3.032	150	☒			☒			9.7			
3	123	1146	3.172	125	☒						9.9			
4	124	1393	3.305	100	☒						10.1			
5	125	371	3.352	75	☒						10.3			
6	126	196	3.453	50	☒	☒					10.4			
7	127	3182	3.520	40	☒		☒				10.6			
8	128	1374	3.657	30	☒						10.7			
9	129	1402	4.050	20	☒				☒	☒	11.4			
10	130	3196	5.238	10	☒				☒	☒	15.2			
11	131	2014	6.654	5	☒						18.4			
12	132	3174	7.023	Surf (2)					☒	☒	18.5			
13														
14	126	1261	3.541											
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): HM/MH/ET

Bottom Depth: 178 m

Transmisso Cleaned: ☒ Y / N

Time	UTC	Local
Start	2339	1639
Bottom	2343	
End	2356	

Positional Information
 Start
 Lat: 48 ° 51.39 N
 Lon: 123 ° 10.91 W

Bottom
 Lat: 48 ° 51.40 N
 Lon: 123 ° 10.79 W

End
 Lat: 48 ° 51.39 N
 Lon: 123 ° 10.79 W

Oxygen Info For This Cast
 Blank Value: 0.0025 mL · L⁻¹
 Std Value: 0.696 mL · L⁻¹
 *Date Run: 10 | 9 | 11
 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: 2011-10

Station: 42

Event #: 43

Ship: Vector

UTC Date (dd|mmm|yyyy): 12 | 9 | 11

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	DIC	PH		T		
1	133	631	3.014	350	☒ 310	☒	☒				☒	☒		9.7		
2	134	1144	2.992	300	☒			☒						9.5		
3	135	2068	3.070	250	☒						☒	☒		9.5		
4	136	468	3.133	200	☒		☒				☒	☒		9.4		* SPIGOT DRIPPING
5	137	745	3.224	175	☒	☒					☒			9.5		
6	138	1300	3.278	150	☒						☒	☒		9.5		
7	139	1395	3.314	125	☒									9.9		
8	140	1321	3.249	100	☒									10.2		
9	141	1406	3.441	75	☒						☒	☒		10.1		
10	142	1407	3.634	50	☒						☒	☒		10.2		
11	143	1426	3.665	40	☒						☒	☒		10.4		10.4
12	144	1123	4.039	20	☒	☒			☒	☒	☒	☒		11.1		
13	145	1411	4.889	10	☒		☒		☒	☒	☒	☒		14.5		
14	146	1248	6.085	5	☒						☒	☒		17.2		
15	147	3151	6.233	Surf(2)	☒	☒	☒		☒	☒	☒	☒		17.9		
16																
17																
18	137	1475	3.238													
19	144	1330	4.040													
20																
21																
22																
23																
24																

Watchkeeper(s): H.M./M.H./EY

Bottom Depth: 320 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0328	2028
Bottom	0335	
End	0358	

Positional Information

Start

Lat: 49 ° 01.80 N

Lon: 123 ° 26.20 W

Bottom

Lat: 49 ° 01.76 N

Lon: 123 ° 26.15 W

End

Lat: 49 ° 01.64 N

Lon: 123 ° 25.94 W

Oxygen Info For This Cast

Blank Value: 0.0025 mL · L⁻¹

Std Value: 0.696 mL · L⁻¹

*Date Run: 10/9/11

Analyst: H.M.

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