

ROSETTE LOG

MISSION ID: 2004-04 STATION: 5103 CAST NUMBER: 02 UTC DATE (dd/mm/yyyy): 02 MAR /04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	CDO ^M	NH ₄	SE ^M	HL	HL ^C	
1	1			100	✓ 100	X		X										
2	2			75	✓ 75	X												
3	3			50	✓ 49													
4	4			35	✓ 34							X						
5	5			25	✓ 25													
6	6			15	✓ 15													
7	7			5	✓ 5													
8	8			0	✓ 1.58													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: J.P. TULLY
ENTERED BY: S.T.
CHECKED BY:

Bottom Depth:

Cast # down: EVENT 2
Cast # up:

Time LOC UTC
Begin:
Bottom:
End:

START POSITION (GPS)
LAT: 48 35.6
LONG: 123 29.96

BOTTOM POSITION (GPS)
LAT: 48 35.5
LONG: 123 29.95

END POSITION (GPS)
LAT: 48 35
LONG: 123 29

Comments:

ROSETTE LOG

MISSION ID: 2004-04 STATION: BFO1 CAST NUMBER: 05 UTC DATE (dd/mm/yyyy): 02/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken														HPLC
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13	(2)							
							OXY					ALK		CHL	DM	NP4	SE	PJS		
1	9			400	✓	✓		✓												
2	10			300	✓	✓		✓												
3	11			250	✓ 252	✓		✓												
4	12			200	✓	✓		✓												
5	13			175	✓			✓												
6	14			150	✓			✓							✓					
7	15			125	✓ 124			✓												
8	16			100	✓			✓							✓					
9	17			75	✓			✓							✓					
10	18			50	✓			✓						✓	✓					
11	19			30	✓			✓					✓	✓	✓					
12	20			25	✓			✓					✓	✓	✓					
13	21			20	✓			✓					✓	✓	✓					
14	22			15	✓			✓					✓	✓	✓	✓	✓	✓	✓	
15	23			15	✓			✓												
16	24			10	✓			✓					✓	✓	✓					
17	25			5	✓			✓					✓	✓					✓	
18	26			5	✓			✓												
19	27			0	✓			✓					✓	✓	✓					
20																				
21							18	GIP 18					7x2	4x2	10	2x2	2x2	2x2		
22						(4)		(36)					(14)	(16)	12	40		(4)		
23															(22)	(4)				
24																				

Comments: Bot 19 ① BF ① MATRIX

SHIP: John P. Tully

ENTERED BY:

CHECKED BY:

Bottom Depth: 498 m

Cast # down: 5

Cast # up:

Time LOC UTC

Begin: 14:40 2240

Bottom: 2305

End:

START POSITION (GPS)

LAT: 48°31.89

LONG: 126°12.45

BOTTOM POSITION (GPS)

LAT: 48°31.83

LONG: 126°12.52

END POSITION (GPS)

LAT: 48°31

LONG: 126°12

ROSETTE LOG

MISSION ID: 2004-04 STATION: LC08 CAST NUMBER: 07 UTC DATE (dd/mm/yyyy): 03/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CDOM	NH4			
1	28		bot-10:1	193	✓ 193.59	✓		✓										
2	29		175		✓ 174.73	✓		✓										
3	30		150		✓ 149.93	✓		✓							✓			
4	31		125		✓ 123.39	✓		✓										
5	32		100		✓ 100.6			✓							✓			
6	33		75		✓			✓							✓			
7	34		50		✓			✓						✓	✓			
8	35		30		✓			✓					✓	✓	✓			
9	36		25		✓ 25.16			✓					✓	✓	✓			
10	37		20		✓ 19.53			✓					✓	✓	✓			
11	38		15		✓ 14.7x			✓					✓	✓	✓			
12	39		10		✓ 10.01			✓					✓	✓	✓			
13	40		5		✓ 5.02			✓					✓	✓	✓			
14	41		0		✓ 1.94			✓					✓	✓	✓			
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: file called 2004-04-0006.dat

SHIP: John P. Tully

ENTERED BY: TP

CHECKED BY:

Bottom Depth: 198m

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		01:01
Bottom:		01:04
End:		

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2004-04 STATION: LC07 CAST NUMBER: 08 UTC DATE (dd/mm/yyyy): 03/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken											
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CDOM			
							OXY			ALK		CHL					
1	42		129.3	Bot-10	✓ 120.10			✓									
2	43			100	✓												
3	44			75	✓ 77.79												
4	45			50	✓ 51.49									✓			
5	46			30	✓ 32.48							✓	✓				
6	47			25	✓ 25.19							✓	✓	✓			
7	48			20	✓ 19.68							✓	✓	✓			
8	49			15	✓ 14.71							✓	✓	✓			
9	50			10	✓ 9.65							✓	✓	✓			
10	51			5	✓ 5.04							✓	✓	✓			
11	52			0	✓ 2.22			✓				✓	✓	✓			
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

SHIP: John P. Tully
ENTERED BY: TP
CHECKED BY:

Bottom Depth: 129

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		02:29
Bottom:		02:40
End:		02:58

START POSITION (GPS)
LAT: 48°32.98
LONG: 126°0.47

BOTTOM POSITION (GPS)
LAT: 48°33.01
LONG: 126°0.41

END POSITION (GPS)
LAT: 48°33.11
LONG: 126°0.31

ROSETTE LOG

MISSION ID: 2004-04 STATION: LC06 CAST NUMBER: 010 UTC DATE (dd/mm/yyyy): 03/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL	CDOM				
1	053✓			Bot - 10	81.2			✓✓										
2	054✓			75				✓✓										
3	055✓			50				✓✓						✓				
4	056✓			30				✓✓					✓✓	✓				
5	057✓			25				✓✓					✓✓	✓				
6	058✓			20				✓✓					✓✓	✓				
7	059✓			15				✓✓					✓✓	✓				Decided not to sample CDOM at some depths
8	060✓			10				✓✓					✓✓	✓				
9	061✓			5				✓✓					✓✓	✓				
10	062✓			0				✓✓					✓✓	✓				
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ROSETTE LOG

MISSION ID: 2004-04 STATION: LC05 CAST NUMBER: 012 UTC DATE (dd/mm/yyyy): 03/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	063 ✓			Bot-10	✓			182										
2	64 ✓			50	✓													
3	65 ✓			30	✓								✓✓					
4	66			25	✓ 25.07								✓✓	✓				
5	67			20	✓ 20.04								✓✓	✓				
6	68			15	✓ 14.97								✓✓	✓				
7	69			10	✓ 9.74								✓✓	✓				
8	70			5	✓ 5.35								✓✓	✓				
9	71			0	✓ 2.11			✓					✓✓	✓				
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: JPTULLY

ENTERED BY: MG/TP

CHECKED BY:

Bottom Depth: 65

Cast # down:

Cast # up:

Time

LOC

UTC

Begin: 0637

Bottom: 0639 →

End: 0655

START POSITION (GPS)

LAT: 48 39.998

LONG: 125 47.310

BOTTOM POSITION (GPS)

LAT: 48 40.062

LONG: 125 47.278

END POSITION (GPS)

LAT: 48 40.26

LONG: 125 47.16

ROSETTE LOG

MISSION ID: 2004-04 STATION: LC04 CAST NUMBER: 013 UTC DATE (dd/mm/yyyy): 03/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CDOM		
							OXY			ALK		CHL				
1	072			BOT-10	✓ 163			✓✓								
2	73			150	✓			✓✓								
3	74			125	✓			✓✓								
4	75			100	✓ 10✓			✓✓								
5	76			75	✓ 74			✓✓								
6	77			50	✓			✓✓								
7	78			30	✓ 31			✓✓				✓✓				
8	79			25	✓			✓✓				✓✓				
9	80			20	✓			✓✓				✓✓	✓			
10	81			15	✓			✓✓				✓✓	✓			
11	82			10	✓			✓✓				✓✓	✓			
12	83			5	✓			✓✓				✓✓	✓			
13	84			0				✓✓				✓✓	✓			
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Comments:

SHIP: JOHN P TULLY

ENTERED BY: ST

CHECKED BY:

Bottom Depth: 168'

Cast # down:

Cast # up:

TimeLOCUTC

Begin:0805

Bottom:0809

End:

START POSITION (GPS)

LAT: 48° 43.43

LONG: 125° 40.78

BOTTOM POSITION (GPS)

LAT: 48° 43.43

LONG: 125° 40.78

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2004-04 STATION: LCB3 CAST NUMBER: 014 UTC DATE (dd/mm/yyyy): 03/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CHL					
1	85			6-10	✓ 123			xx											
2	86			100	✓														
3	87			75	✓														
4	88			50	✓ 51														
5	89			30	✓								xx						
6	90			25	✓														
7	91			20	✓									x					
8	92			15	✓														
9	93			10	✓														
10	94			5	✓														
11	95			0										↓	↓				
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

SHIP: JP TULLY

ENTERED BY: ST

CHECKED BY:

Bottom Depth: 131

Cast # down: 14

Cast # up:

TimeLOCUTC

Begin:0953

Bottom:0957

End:

START POSITION (GPS)

LAT: 48° 34.46

LONG: 125° 29.99

BOTTOM POSITION (GPS)

LAT: 48° 34.45

LONG: 125° 29.99

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2004-04 STATION: LCB4 CAST NUMBER: 17 UTC DATE (dd/mm/yyyy): 03/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	96			6-10	✓ 75			XX										
2	97			50	✓ 51													
3	98			30	✓								XX					
4	99			25	✓													
5	100			20	✓													
6	101			15	✓													
7	102			10	✓													
8	103			5	✓													
9	104			0	✓													
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully

ENTERED BY: ST

CHECKED BY:

Bottom Depth: 80

Cast # down: 17

Cast # up:

Time	LOC	UTC
Begin:		1131
Bottom:		1134
End:		1142

START POSITION (GPS)

LAT: 48°31.99

LONG: 125°35.51

BOTTOM POSITION (GPS)

LAT: 48°31.99

LONG: 125°35.51

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2004-04 STATION: B101 CAST NUMBER: 018 UTC DATE (dd/mm/yyyy): 03/03/2004

[illegible]

SHIP:	Tully
ENTERED BY:	K.B.
CHECKED BY:	

Bottom Depth: 533 m

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		15:05
Bottom:		15:12
End:		

START POSITION (GPS)	
LAT:	48° 31' 802
LONG:	126° 12' 412

BOTTOM POSITION (GPS)	
LAT:	48° 31.806
LONG:	126° 12.408

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 2004-04 STATION: LC9 CAST NUMBER: 023 UTC DATE (dd/mm/yyyy): 03/03/04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	128			200-10	✓	596			x2									
2	129			500	✓	498												
3	130			400	✓													
4	131			300	✓													
5	132			250	✓													
6	133			200	✓													
7	134			175	✓													
8	135			150	✓								✓	✓				
9	136			125	✓													
10	137			100	✓								✓	✓				
11	138			75	✓								✓	✓				
12	139			50	✓								✓	✓				
13	140			36	✓								x2	✓	✓			
14	141			25	✓									✓	✓			
15	142			26	✓									✓	✓			
16	143			15	✓									✓	✓			
17	144			10	✓									✓	✓			
18	145			5	✓													
19	146			0	✓									✓	✓			
20																		
21																		
22																		
23																		
24																		

SHIP: Tu/14
ENTERED BY: ST.
CHECKED BY:

Bottom Depth: 601

Cast # down: 23
Cast # up:

Time	LOC	UTC
Begin:		2049
Bottom:		2100
End:		21

START POSITION (GPS)
LAT: 48°25.92
LONG: 126°13.7262

BOTTOM POSITION (GPS)
LAT: 48°25.99
LONG: 126°13.58

END POSITION (GPS)
LAT: 48°2
LONG: 126°13

ROSETTE LOG

MISSION ID: 2004-04 STATION: LB12 CAST NUMBER: 26 UTC DATE (dd/mm/yyyy): 03/03/04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CDOM				
							OXY			ALK		CHL						
1	147		~465	B-10	✓ 500.63			✓										
2	148			400	✓ 400.09			✓										
3	149			300	✓ 298.48			✓										
4	150			250	✓ 253.80			✓										
5	151			200	✓ 196.93			✓										
6	152			175	✓ 177.29			✓										
7	153			150	✓ 148.53			✓										
8	154			125	✓ 123.34			✓										
9	155			100	✓ 100.10			✓										
10	156			75	✓ 74.78			✓										
11	157			50	✓ 50.77			✓										
12	158			30	✓ 28.86			✓				✓✓						
13	159			25	✓ 25.01			✓				✓✓						
14	160			20	✓ 18.74			✓				✓✓	✓					
15	161			15	✓ 14.75			✓				✓✓	✓					
16	162			10	✓ 9.43			✓				✓✓	✓					
17	163			5	✓ 4.51			✓				✓✓	✓					
18	164			0	✓ 2.25			✓				✓✓	✓					
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: JP Tully

ENTERED BY: TP

CHECKED BY:

Bottom Depth: 506

Cast # down:

Cast # up:

TimeLOCUTC

Begin:0100

Bottom:0112

End:0149

START POSITION (GPS)

LAT: 48°12.860

LONG: 125°51'78

BOTTOM POSITION (GPS)

LAT: 48°12.887

LONG: 125°51'506

END POSITION (GPS)

LAT: 48°13.00

LONG: 125°51.76

ROSETTE LOG

MISSION ID: 2004 STATION: LB11 CAST NUMBER: 027 UTC DATE (dd/mm/yyyy): 03/03/04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		HP		TA		
							OXY			ALK		CHL						
1	165			8-10	✓ 198.17	✓												
2	166			200	✓ 195.28	✓		✓										
3	167			175	✓ 177.57			✓										
4	168			150	✓ 150.75			✓										
5	169			125	✓ 125.22			✓										
6	170			100	✓ 98.91			✓										
7	171			75	✓ 74.85			✓									✓✓	
8	172			50	✓ 48.92			✓									✓✓	
9	173			30	✓ 28.76			✓				✓✓					✓✓	
10	174			25	✓ 24.39			✓				✓✓						
11	175			20	✓ 18.55			✓				✓✓					✓✓	
12	176			15	✓ 15.21			✓				✓✓	✓✓	✓✓	✓✓			
13	177			10	✓ 10.9			✓				✓✓	✓✓	✓✓	✓✓		✓✓	
14	178			5	✓ 4.68			✓				✓✓	✓✓	✓✓	✓✓			
15	179			0	✓ 3.70			✓				✓✓	✓✓	✓✓	✓✓		✓✓	
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ROSETTE LOG

MISSION ID: 2004-04 STATION: LB10 CAST NUMBER: 028 UTC DATE (dd/mm/yyyy): 04/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL	HPLC	S-PH			
1	180			Bot -10	✓	141.1		1x2										MAY HAVE FIRED AT 135
2	181			125	✓	126.3												
3	182			100	✓	99.1												
4	183			75	✓	76.6												
5	184			50	✓	50.5												
6	185			30	✓	29.3							1x2					
7	186			25	✓	26.2												
8	187			20	✓	19.8												
9	188			15	✓	14.7								1x2	1x4			
10	189			10	✓	10.5												
11	190			5	✓	5.5								✓	✓			
12	191			0	✓	1.7		✓					✓					
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: JPTOLLY
ENTERED BY:
CHECKED BY:

Bottom Depth: 150

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0536
Bottom:		0539
End:		0554

START POSITION (GPS)
LAT: 48 18.541
LONG: 125 41.296

BOTTOM POSITION (GPS)
LAT: 48 18.551
LONG: 125 41.321

END POSITION (GPS)
LAT: 48 18.514
LONG: 125 41.429

ROSETTE LOG

MISSION ID: 2004-04 STATION: LB09 CAST NUMBER: 029 UTC DATE (dd/mm/yyyy): 04/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		NH4		SEW		
						OXY				ALK		CHL						
1	192			Bot-10	✓ 142	✓												
2	193			125	✓	✓												
3	194			100	✓			✓✓										
4	195			75	✓			✓✓						✓✓				
5	196			50	✓			✓✓						✓✓				
6	197			30	✓			✓✓					✓✓	✓✓				
7	198			25	✓			✓✓					✓✓					
8	199			20	✓			✓✓					✓✓	✓✓				
9	200			15	✓ 14			✓✓					✓✓		✓✓	✓✓		
10	201			10	✓			✓✓					✓✓	✓✓	✓✓	✓✓		
11	202			5	✓			✓✓					✓✓		✓✓	✓✓		
12	203			0	✓								✓✓	✓✓	✓✓			
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: JOHN P. TULLY
ENTERED BY: JT
CHECKED BY:

Bottom Depth: 152

Cast # down: 29
Cast # up:

Time	LOC	UTC
Begin:		0810
Bottom:		0815
End:		0827

START POSITION (GPS)
LAT: 48° 21.98
LONG: 125° 34.76

BOTTOM POSITION (GPS)
LAT: 48° 22.02
LONG: 125° 34.75

END POSITION (GPS)
LAT: 48° 21.96
LONG: 125° 34.80

ROSETTE LOG

MISSION ID: 2004-04 STATION: LB 8 CAST NUMBER: 30 UTC DATE (dd/mm/yyyy): 04/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	204			Box-10	✓ 129			12										
2	205			125	✓													
3	206			100	✓													
4	207			75	✓													
5	208			50	✓													
6	209			30	✓ 31							1x2						
7	210			25	✓													
8	211			20	✓													
9	212			15	✓ 16													
10	213			10	✓													
11	214			5	✓													
12	215			0														
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: JPTULLY

ENTERED BY: S.T.

CHECKED BY:

Bottom Depth: 141

Cast # down: 30

Cast # up:

Time	LOC	UTC
Begin:		0938
Bottom:		0942
End:		0954

START POSITION (GPS)

LAT: 48°25'29

LONG: 125°28'59

BOTTOM POSITION (GPS)

LAT: 48°25'28

LONG: 125°28'57

END POSITION (GPS)

LAT: 48°25'31

LONG: 125°28'63

ROSETTE LOG

MISSION ID: 2004-04 STATION: LABI CAST NUMBER: 34 UTC DATE (dd/mm/yyyy): 04/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												NH ₄
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		EDOM		HLCL		
						OXY				ALK		CHL		PUSI		ST-chl		
1	216		Bot: 36m	BOT-110	✓	✓												Bottles 1-5 not sampled.
2	217			125	✓	✓												
3	218			100	✓			✓✓										
4	219			75	✓			✓✓										
5	220			50	✓			✓✓										
6	221			30	✓			✓✓				✓✓						
7	222			25	✓ 24.82			✓✓				✓✓						
8	223			20	✓ 20.49			✓✓				✓✓	✓					
9	224			15	✓ 14.34			✓✓				✓✓		✓	✓✓		✓✓	
10	225			15	✓ 15.18								✓			✓✓		
11	226			10	✓ 10.24			✓✓				✓✓	✓	✓	✓✓			
12	227			5	✓ 6.43							✓✓		✓	✓✓		✓✓	Waves caused depth to vary
13	228			5	✓ 5.42			✓✓					✓			✓✓		
14	229			0	✓ 2.08							✓✓	✓					
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Labels on bottles may read LABI
Note - NH₄ did not get sampled.

SHIP: John P Tully
ENTERED BY: TP/MQ
CHECKED BY:

Bottom Depth: 36m

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		19:05
Bottom:		19:06
End:		19:17

START POSITION (GPS)
LAT: 48 40 346
LONG: 124 59.489

BOTTOM POSITION (GPS)
LAT: 48 40 351
LONG: 124 59.483

END POSITION (GPS)
LAT: 48 40 378
LONG: 124 59 501

ROSETTE LOG

MISSION ID: 2004-04 STATION: LB02 CAST NUMBER: 36 UTC DATE (dd/mm/yyyy): 04/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CDOM				
							OXY			ALK		CHL						
1	230			BOT-10	✓ 50			✓✓										
2	231			30	✓			✓✓					✓✓					
3	232			25	✓			✓✓					✓✓					
4	233			20	✓			✓✓					✓✓	✓				
5	234			15	✓			✓✓					✓✓	✓				
6	235			10	✓			✓✓					✓✓	✓				
7	236			5				✓✓					✓✓	✓				
8	237			0				✓✓					✓✓	✓				
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: JOHN P. TULLY

ENTERED BY: ST

CHECKED BY:

Bottom Depth: 61

Cast # down: 36

Cast # up:

TimeLOCUTC

Begin:2032

Bottom:2034

End:

START POSITION (GPS)

LAT: 48°38'9.6

LONG: 125°02'37

BOTTOM POSITION (GPS)

LAT: 48°38'9.5

LONG: 125°02'37

END POSITION (GPS)

LAT: 48°38

LONG: 125°02

ROSETTE LOG

MISSION ID: 2004-04 STATION: LB3 CAST NUMBER: 38- UTC DATE (dd/mm/yyyy): 04/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL		CDMA				
1	238			6-10	✓ 90			xx										
2	239			75	✓													
3	240			50	✓													
4	241			30	✓							xx						
5	242			25	✓													
6	243			20	✓													
7	244			15	✓													
8	245			10	✓													
9	246			5	✓													
10	247			0	✓													
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tully

ENTERED BY: ST

CHECKED BY:

Bottom Depth: ~ 93

Cast # down: 37

Cast # up:

Time	LOC	UTC
Begin:		2156
Bottom:		2200
End:		2

START POSITION (GPS)

LAT: 48°37.30

LONG: 125°05.58

BOTTOM POSITION (GPS)

LAT: 48°37.26

LONG: 125°05.55

END POSITION (GPS)

LAT: 48°37.26

LONG: 125°05.53

ROSETTE LOG

MISSION ID: 2004-04 STATION: LB04 CAST NUMBER: 40 UTC DATE (dd/mm/yyyy): 04/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL		CDP			
1	248			6-10	✓ 10.6			XX										
2	249			75	✓													
3	250			50	✓													
4	251			30	✓								XX					
5	252			25	✓													
6	253			20	✓										X			
7	254			15	✓													
8	255			10	✓													
9	256			5	✓													
10	257			1	✓													
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: TULLY

ENTERED BY: S.T.

CHECKED BY:

Bottom Depth: 111

Cast # down: 40

Cast # up:

TimeLOCUTC

Begin:2322

Bottom:2327

End:

START POSITION (GPS)

LAT: 48°35.67

LONG: 125°08.69

BOTTOM POSITION (GPS)

LAT: 48°35.66

LONG: 125°08.65

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2004-04 STATION: JFC 2 CAST NUMBER: 44 UTC DATE (dd/mm/yyyy): 05/03/2004

[illegible]

SHIP: JPT 0115
ENTERED BY: 11/12
CHECKED BY:

Bottom Depth: 173

Cast # down:	44
Cast # up:	114

Time	LOC	UTC
Begin:	0804	1604
Bottom:	0808	1608
End:	0825	1625

	START POSITION (GPS)
LAT:	48 18 528
LONG:	123 45 049

BOTTOM POSITION (GPS)	
LAT:	48 18 516
LONG:	123 45 031

END POSITION (GPS)	
LAT:	48 18 518
LONG:	123 44 981

Comments:

ROSETTE LOG

MISSION ID: 2004-04 STATION: J FD3 CAST NUMBER: 46 UTC DATE (dd/mm/yyyy): 05/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		NO		C13		EDOM		SPCH		
							OXY		TAT	NH	ALK		CHL		APLC		PVI	
1	271			6-10	154	✓		✓✓										
2	272			150	150			✓✓										
3	273			125	126			✓✓										
4	274			100	100			✓✓										
5	275			75	75			✓✓		✓✓								
6	276			50	51			✓✓		✓✓								
7	277			30	29			✓✓		✓✓			✓✓					
8	278			25	25			✓✓					✓✓					
9	279			20	19			✓✓		✓✓			✓✓	✓				
10	280			15	15				✓✓				✓✓				✓	
11	281			15	15			✓✓							✓✓	✓✓		
12	282			10	10			✓✓		✓✓			✓✓	✓		✓✓		
13	283			5	4				✓✓				✓✓				✓	
14	284			5	4			✓✓							✓✓	✓✓		
15	285			0	/			✓✓		✓✓			✓✓	✓				
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: J. P. Tully

ENTERED BY:

CHECKED BY:

Bottom Depth: 175

Cast # down: 46

Cast # up: 46

TimeLOCUTC

Begin: 10081808

Bottom: 10131813

End: 10331833

START POSITION (GPS)

LAT: 48 19 750

LONG: 124 00 000

BOTTOM POSITION (GPS)

LAT: 48 19 816

LONG: 123 59 966

END POSITION (GPS)

LAT: 48 19 788

LONG: 124 01 108

ROSETTE LOG

MISSION ID: 2004-04 STATION: B102 CAST NUMBER: 51 UTC DATE (dd/mm/yyyy): 06/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT	ph	TCO		C13				S-F		
							OXY			NH4	ALK	CHL	CDOM	HPLC	JA1	PIC1		
1	286			B-10	✓ 262.43	✓		✓										
2	287			200	✓ 200.26	✓		✓										
3	288			175	✓ 175.29			✓										
4	289			150	✓ 150.51			✓										
5	290			125	✓ 125.09			✓										
6	291			100	✓ 100.34			✓										
7	292			75	✓ 75.01			✓		✓								
8	293			50	✓ 50.34			✓		✓								
9	294			30	✓ 29.59			✓		✓		✓						
10	295			25	✓ 25.13			✓				✓						
11	296			20	✓ 20.16			✓		✓		✓						
12	297			15	✓ 14.81			✓				✓	✓		✓			
13	298			15	✓ 14.86				✓					✓	✓	✓		
14	299			10	✓ 10.11			✓		✓		✓	✓					
15	300			5	✓ 5.34			✓				✓	✓		✓			
16	301			5	✓ 5.28				✓					✓	✓	✓		
17	302			0	✓ 195			✓		✓		✓	✓					
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 274

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		1626
Bottom:		1633
End:		1704

START POSITION (GPS)
LAT: 49°04'14"
LONG: 123°23'11"

BOTTOM POSITION (GPS)
LAT: 49°04'19"
LONG: 123°23'14"

END POSITION (GPS)
LAT: 49°04'24"
LONG: 123°23'18"

Comments: #301 no glutaraldehyde sample

ROSETTE LOG

MISSION ID: 2004-04 STATION: 46 CAST NUMBER: 54 UTC DATE (dd/mm/yyyy): 06/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT	TCO		C13		CO2		St	chl		
1	303			175	✓			✓✓										
2	304			150	✓			✓✓										
3	305			125	✓			✓✓										
4	306			100	✓			✓✓										
5	307			75	✓			✓✓										
6	308			50	✓			✓✓										
7	309			30	✓			✓✓				✓✓						
8	310			25	✓			✓✓				✓✓						
9	311			20	✓			✓✓				✓✓						
10	312			15	✓			✓✓				✓✓	✓	✓✓	✓✓			
11	313			10	✓			✓✓				✓✓	✓	✓✓	✓✓			
12	314			5	✓			✓✓				✓✓	✓	✓✓	✓✓			
13	315			0				✓✓				✓✓	✓	✓✓				
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tully
ENTERED BY: ST
CHECKED BY:

Bottom Depth: 179

Cast # down: 54
Cast # up:

Time	LOC	UTC
Begin:		2036
Bottom:		2042
End:		2057

START POSITION (GPS)
LAT: 48°51.39
LONG: 123°10.76

BOTTOM POSITION (GPS)
LAT: 48°51.35
LONG: 123°10.74

END POSITION (GPS)
LAT: 48°51.39
LONG: 123°10.61

ROSETTE LOG

MISSION ID: 2004-04 STATION: 47 CAST NUMBER: 57 UTC DATE (dd/mm/yyyy): 06/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	C13	CHL						
1	316			6-10	✓ 178			✓✓										
2	317			175	✓			✓✓										
3	318			150	✓ 151			✓✓										
4	319			125	✓			✓✓										
5	320			100	✓			✓✓										
6	321			75	✓			✓✓										
7	322			50	✓			✓✓										
8	323			30	✓			✓✓				XX						
9	324			25	✓													
10	325			20	✓			✓✓										
11	326			15	✓			✓✓										
12	327			10	✓			✓✓										
13	328			5	✓													
14	329			1				✓✓										
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully

ENTERED BY: S.F.

CHECKED BY:

Bottom Depth: 183

Cast # down: 57

Cast # up:

Time	LOC	UTC
Begin:		2204
Bottom:		2208
End:		2224

START POSITION (GPS)

LAT: 48°49.24

LONG: 123°06.18

BOTTOM POSITION (GPS)

LAT: 48°49.17

LONG: 123°06.21

END POSITION (GPS)

LAT: 48°49.01

LONG: 123°06.41

ROSETTE LOG

MISSION ID: 2004-04 STATION: 57 CAST NUMBER: 59 UTC DATE (dd/mm/yyyy): 06/03/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL		CDT				
1	330			6-10	✓ 125			X+										
2	331			125	✓													
3	332			100	✓													
4	333			75	✓													
5	334			50	✓													
6	335			30	✓							XX						
7	336			25	✓													
8	337			20	✓													
9	338			15	✓													
10	339			10	✓										X			
11	340			5	✓										X			
12	341			1											X			
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tully

ENTERED BY: ST

CHECKED BY:

Bottom Depth: 131

Cast # down: 59

Cast # up:

Time	LOC	UTC
Begin:		2347
Bottom:		2352
End:		

START POSITION (GPS)

LAT: 48°44.59

LONG: 123°07.43

BOTTOM POSITION (GPS)

LAT: 48°44.54

LONG: 123°07.45

END POSITION (GPS)

LAT: 48°44

LONG: 123°07