

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: LG09 Event #: 82 Ship: Tully UTC Date (dd mmm yyyy): 05 SEP 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	Sal	UVic	UVicFA	HPLC	CHL	NOT						
1	1	252	2005	✓ 2005	x x											
2	2	253	1500	✓ 1500	x x											
3	3	254	1000	✓ 1000	x x											
4	4	255	250	✓ 250		x										
5	5	256	150	✓ 150		x										
6	6	257	50	✓ 50		x										
7	7	258	20	✓ 20		x										
8	8	259	10	✓ 15		x	x		x	x						
9	10	260	5	✓ 5		x		xx	x	x					-2.1	
10	8	261	C Max 10	✓ 10		x	x									
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth: 2044 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2250	1550
Bottom	2325	
End	0006	

Positional Information

Start	Lat: 48° 51.34	N
	Lon: 127° 19.39	W

Bottom

	Lat: 48° 51.39	N
	Lon: 127° 19.31	W

End

	Lat: 48° 51.41	N
	Lon: 127° 19.40	W

Extra comments:
OUT OF ORDER!

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: LBP8 Event #: 90 Ship: Tully UTC Date (dd mmm yyyy): 6 9 18

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4		UVic	phyto	DA	FA	
1	1	262	250	✓ 250									x				
2	2	263	150	✓									x				
3	3	264	50	✓									x				
4	5	265	20	✓									x				
5	6	266	10	✓									x				
6	7	267	5	✓									x				
7	4	268	C MAX	✓ 25												x	FL = 2.063
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): H.M.T

Bottom Depth: 2065 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1440	0740
Bottom	1514	
End		

Positional Information

Lat:	49 ° 48 59	N
Lon:	128 ° 16 78	W

▼

Lat:	49 ° 48 59	N
Lon:	128 ° 16 79	W

▼

Lat:	49 ° 48	N
Lon:	129 ° 16	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034

Station: LBP7

Event #:

91

Ship: Tully

UTC Date (dd mmm yyyy): 6 9 18

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	HAB	UVic	phyto	DA			
1		269	2000	✓ 2000	x	xx	x	x										
2		270	1500	✓	xx	xx	x	x										
3		271	1250	✓	x	xx	x	x										
4		272	1000	✓	x	x	xx	xx										
5		273	750	✓	x	x	x	x										
6		274	500	✓	x	x	x	x										
7		275	400	✓	x	x	x	x										
8		276	300	✓	x	x	x											
9		277	250	✓	x	x	x											
10		278	200	✓	xx	x	x											
11		279	175	✓	x	x	x											
12		280	150	✓	x	x	x											
13		281	125	✓	x	x	x											
14		282	100	✓	x	x	x											
15		283	75	✓	x	x	xx											
16		284	50	✓	x	x	x		x									
17		285	30	✓	x	x	x		x		xx							
18		286	20	✓	xx	x	x		xx		xx							
19		287	10	✓	x	x	x		x		xx							
20		288	5	✓	x	x	x											
21		289	5	✓			x		x	xx	xx	x		xxx	x			spigot dripping
22																		
23																		
24																		

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): Hnt

Bottom Depth: 2179 m

Transmisso Cleaned: Y N

Time UTC Local

Start 1638 1038

Bottom 1713

End 1804

Positional Information

Start Lat: 49° 52' 37" N

Lon: 128° 11' 20" W

Bottom Lat: 48° 52' 39" N

Lon: 128° 11' 21" W

End Lat: 49° 52' 38" N

Lon: 128° 11' 22" W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: LBP5 Event #: 94 Ship: ~~Ranger~~ TULLY UTC Date (dd mmm yyyy): 06 SEP 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4						
					MP/MP	MP	ND	ND	ND	TV	ND						
1		290	Bot-10	✓ 1278	x		x	x									
2		291	1250	✓ 1250	x	x	x	x									
3		292	1000	✓ 1000	x	x	xx	xx									
4		293	750	✓ 750	x		x	x									
5		294	500	✓ 500	x		x	x									
6		295	400	✓ 400	xx		x	x									
7		296	300	✓ 300	x		x										
8		297	250	✓ 250	x		x										
9		298	200	✓ 200	x		x										
10		299	175	✓ 175	x		x										
11		300	150	✓ 151	x		x										
12		301	125	✓ 125	x		x										
13		302	100	✓ 100	x		x										
14		303	75	✓ 75	x		x										
15		304	50	✓ 50	x		xx		x								
16		305	30	✓ 30	xx		x		xx		xx						
17		306	20	✓ 20	x		x		x		xx						
18		307	10	✓ 10	x		x		x		xx						
19		308	5	✓ 5	x	x	x		x	xx	xx						FLUO: 7.8
20																	
21																	
22																	
23																	
24																	

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth:	1274 m
Transmisso Cleaned:	☒ Y ☐ N

Time	UTC	Local
Start	2025	1325
Bottom	2048	
End	2128	

Positional Information		
Start	Lat: 49° 59.91	N
	Lon: 127° 59.93	W

Bottom	Lat: 49° 59.96	N
	Lon: 127° 59.90	W

End	Lat: 49° 59.96	N
	Lon: 127° 59.92	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2018-034

Station:

LBP3

Event #:

97

Ship:

Tully

UTC Date (dd:mmm:yyyy): 06 SEP 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	CHL	HPLC	NH4	phyto	DA	UVic	UVicFA	HAB		
					MR	JD	JD	JD/NL	MR	JD	MR	MR	TV	TV	MR		
1	1	309	bot-10	✓ 179	x		x										
2	2	310	150	✓ 150	x		xx						x				
3	3	311	125	✓ 125	x		x										
4	4	312	100	✓ 100	x		x						x				
5	5	313	75	✓ 75	x		x										
6	6	314	50	✓ 50	x		x	x					x				
7	7	315	30	✓ 30	x		x	x		xx							
8	8	316	20	✓ 20	x		x	xx		xx			x				
9	9	317	10	✓ 10	x		x	x		xx			x				
10	10	318	5	✓ 5	xx	x	x						x				
11	11	319	5	✓ 5			x	x	xx	xx	xxx	x			x		FLUO: ~12.
12	12	320	C MAX	✓ 5										x			
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

MR

Bottom Depth: 170 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2310	1610
Bottom	2317	
End	2328	

Positional Information

Lat:	50° 03.09	N
Lon:	127° 55.25	W

Lat:	50° 03.00	N
Lon:	127° 55.15	W

Lat:	50° 03.10	N
Lon:	127° 55.07	W

Extra comments:

Out-of-order!

Check for Chl max → 5

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034

Station: CS00

Event #: 113

Ship: Tully

UTC Date (dd mmm yyyy): 7 9 18

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	UVic	HAB	DA		
1		321	2000	✓	Z 000	x	x	x	x								
2		322	1500	✓		x	xx	xx	xx								
3		323	1250	✓		x	xx	x	x								
4		324	1000	✓		x	xx	x	x								
5		325	750	✓		xx	x	x	x								
6		326	500	✓		x	x	x	x								
7		327	400	✓		x	x	x	x								
8		328	300	✓		x	x	x									
9		329	250	✓		x	x	x									
10		330	200	✓		x	x	xx									
11		331	175	✓		x	x	x									
12		332	150	✓		xx	x	x									
13		333	125	✓		x	x	x									
14		334	100	✓		x	x	x									
15		335	75	✓		x	x	x									
16		336	50	✓		x	x	x		xx							
17		337	30	✓		x	x	x		x							
18		338	20	✓		xx	x	x		x		xx					
19		339	10	✓		x	x	x		x		xx					
20		340	5	✓		x	x	x									Fluo: 2.32
21		341	5	✓				x		x	xx	xx	xxx		x	x	spigot pouring out → CHANGE
22																	
23																	
24																	

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): Hm +

Bottom Depth: 2167 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1639	0939
Bottom	1713	
End	1804	

Positional Information

Lat:	50 ° 27.68	N
Lon:	129 ° 55.07	W

Start

Bottom

End

Lat:	50 ° 27.67	N
Lon:	129 ° 55.07	W

Lat:	50 ° 27.69	N
Lon:	129 ° 55.07	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: CS02 Event #: 116 Ship: Tully UTC Date (dd mmm yyyy): 07 Sep 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	UVic	UVicFA			
1	1	342	Bot-10	✓ 1910	x		x	x								
2	2	343	1500	✓ 1499	x	x	xx	xx								
3	3	344	1250	✓ 1250	x	x	x	x								
4	4	345	1000	✓ 1000	x	xx	x	x								
5	5	346	750	✓ 750	xx		x	x								
6	6	347	500	✓ 500	x		x	x								
7	7	348	400	✓ 400	x		x									
8	8	349	300	✓ 300	x		x									
9	9	350	250	✓ 250	x		x					x				
10	10	351	200	✓ 200	x		xx									
11	11	352	175	✓ 175	x		x									
12	12	353	150	✓ 150	xx		x					x				
13	13	354	125	✓ 125	x		x									
14	14	355	100	✓ 100	x		x									
15	15	356	75	✓ 75	x		x									
16	16	357	50	✓ 50	x		x		x			x				
17	17	358	30	✓ 30	x		x		x							
18	18	359	20	✓ 20	xx		x		x		xx	x				
19	19	360	10	✓ 10	x		x		xx		xx	x				
20	21	361	5	✓ 5	x	x	x		x	xx	xx	x				Fluo: 3.2
21		362	C MAX													
22	20	362	C Max	✓ 10												
23																
24																

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): MKBottom Depth: 1894 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2200	1500
Bottom	2234	
End	2324	

Positional Information

Start	Lat: 50° 41.29 N	Lon: 129° 28.01 W
Bottom	Lat: 50° 41.29 N	Lon: 129° 28.00 W
End	Lat: 50° 41.27 N	Lon: 129° 27.96 W

Extra comments:
Out of order!
Check for Chl Max → 10
21 closed to test: none

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: CS04 Event #: 121 Ship: Tully UTC Date (dd:mmm/yyyy): 08 SEP 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4								
			✓	Pressure	MP/ML		JD		MP/ML	MR	JD								
1		363	Bot-10	✓	87	x		x											
2		364	75	✓	75	x		x											
3		365	50	✓	50	x		x		x									
4		366	30	✓	30	x x		x		x x									
5		367	20	✓	20	x		x		x		x x							
6		368	10	✓	10	x		x		x		x x							
7		369	5	✓	5	x		x x		x	x x	x x						Fluo: ~ 31	
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth:	94	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	0213	1913
Bottom	0215	
End	0222	

Start	Positional Information		
	Lat:	50° 49.27	N
	Lon:	129° 13.05	W
Bottom	▼		
	Lat:	50° 49.28	N
	Lon:	129° 13.04	W
End	▼		
	Lat:	50° 49.34	N
	Lon:	129° 12.94	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: SS3 Event #: 127 Ship: Tully UTC Date (dd mmm yyyy): 8 9 18

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4				
			Pressure	✓ Pressure											
1		370	20	✓ 20			x		x x		x x				
2		371	10	✓			x		x x		x x				
3		372	5	✓			x		x x	x x	x x				Fluo: 3.27
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): HM +

Bottom Depth: 209 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0902	0202
Bottom	0907	
End	0915	

Positional Information

Start Lat: 51 ° 15 . 02 N

Start Lon: 129 ° 21 . 23 W

Bottom Lat: 51 ° 15 00 N

Bottom Lon: 129 ° 21 22 W

End Lat: 51 ° 14 . 93 N

End Lon: 129 ° 21 . 16 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: CS06 Event #: 133 Ship: Tully UTC Date (dd mmm yyyy): 8 9 18

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	DA	HAB		
1		373	Bot-10	54	x		xx									
2		374	50	✓	xx		x		x							
3		375	30	✓	x		x		x							
4		376	20	✓	x		x		xx		xx					
5		377	10	✓	x		x		x		xx					
6		378	5		x	x	x									Fluo: 2.93
7		379	5		X				x	xx	xx	xxx	x	x		
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): HM+

Bottom Depth:	62	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	15 29	9 29
Bottom	15 30	
End	15 36	

Positional Information
Start
Lat: 51° 00 07 N
Lon: 128° 51 64 W

Bottom
Lat: 51° 00 08 N
Lon: 128° 51 62 W

End
Lat: 51° 00 10 N
Lon: 129° 51 59 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: CS09 Event #: 139 Ship: Tully UTC Date (dd mmm yyyy): 8 9 18

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	UVic	UVicFA				
					MP/PL		SD/TV		TV	TV	VD	TV	TV				
1		380	Bot-10	✓	186	x		x									
2		381	175	✓		x		x									
3		382	150	✓		x		x				x					
4		383	125	✓		x		x x									
5		384	100	✓		x		x				x					
6		385	75	✓		x		x									
7		386	50	✓		x x		x		x		x					
8		387	30	✓		x		x		x x							
9		388	20	✓		x		x		x		x x	x				
10		389	10	✓		x		x		x		x x	x				
11		390	5			x		x		x	x x	x x	x				Fluo: 1.5
12		391	C MAX		5								x				
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): HM/MR

Bottom Depth: 194 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	18 26	11 26
Bottom	18 30	
End	18 44	

Positional Information

Start Lat: 51 ° 12 52 N

Start Lon: 128 ° 28 07 W

Start

Bottom

End

Lat: 51 ° 12 51 N

Lon: 128 ° 28 11 W

Lat: 51 ° 12 47 N

Lon: 128 ° 28 09 W

Extra comments:

Out of order! NO

Check for Chl Max → 5

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: SS5 Event #: 144 Ship: Tully UTC Date (dd mmm yyyy): 08 SEP 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	DA	HAB	ph	to		
1		392	20	✓ 20			x		x x		x x						
2		393	10	✓ 10			x		x x		x x						
3		394	5	✓ 5			x		x x	x x	x x	x	x	xxx			Fluo: ~1.7
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): ML

Bottom Depth: 200 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2232	1532
Bottom	2237	
End	2243	

Positional Information
Start
Lat: 51° 28.00 N
Lon: 128° 30.03 W

Bottom
Lat: 51° 27.98 N
Lon: 128° 30.03 W

End
Lat: 51° 27.98 N
Lon: 128° 30.01 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: JS Event #: 150 Ship: Tully UTC Date (dd mmm yyyy): 9 9 18

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC				DIC	
1		395	Bot-50	✓ 391	x		x							x	
2		396	200	✓	x		x							x	
3		397	150	✓	x		x							x x	
4		398	100	✓	x x		x							x	
5		399	75	✓	x		x							x	
6		400	50	✓	x		x							x	
7		401	30	✓	x		x		x					x	
8		402	20	✓	x		x x		x x					x	
9		403	10	✓	x x		x		x					x	
10		404	5	✓	x	x	x		x					x x	
11		405	0	✓	x		x		x	x x				x	
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): H.M +

Bottom Depth: 394 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	11 54	04 54
Bottom	12 00	
End	12 15	

Positional Information
Start
Lat: 50 ° 29.90 N
Lon: 126 ° 28.27 W

Bottom
Lat: 50 ° 29 91 N
Lon: 126 ° 28 29 W

End
Lat: 50 ° 29 97 N
Lon: 126 ° 28 27 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: 14 Event #: 152 Ship: Tully UTC Date (dd mmm yyyy): 09 Sep 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto				
1		406	20	✓ 20			x		x x							
2		407	10	✓ 10			x		x x							
3		408	0	✓ 2.9			x		x x	x x					Fluo 1.8	
4																
5																
6																
7																
8																
9																
10																
11																
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18																
19																
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21																
22																
23																
24																

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth: 310 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2015	1315
Bottom	2022	
End	2030	

Positional Information

Lat:	49° 53.04	N
Lon:	124° 59.52	W

▼

Lat:	49° 53.05	N
Lon:	124° 59.52	W

▼

Lat:	49° 53.05	N
Lon:	124° 59.51	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: 12 Event #: 154 Ship: Tully UTC Date (dd mmm yyyy): 09 SEP 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	HAB	DA	UVic			
1		409	20	✓ 20			x		xx									
2		410	10	✓ 10			x		xx									
3		411	0	✓ 3			x		xx	xx		xxx	x	x				Fluo ~20
4																		
5																		
6																		
7																		
8																		
9																		
10																		
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22																		
23																		
24																		

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): MR

Bottom Depth: 352 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2233	1533
Bottom	2240	
End	2249	

Positional Information

Start Lat: 49° 43.66 N
Lon: 124° 40.88 W

Bottom Lat: 49° 43.71 N
Lon: 124° 40.97 W

End Lat: 49° 43.76 N
Lon: 124° 41.09 W

Extra comments: