

Chlorophyll Data Sheet

Cruise: 2018-034

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Dates of Cruise: la Perouse 01 - 10 Sept

Time and date acetone added: 11 Sept 13:01

Analyst: Hayleigh Rados.

Time and date out of freezer: 12 Sept 11:01

Time analysis started: 12:01

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.012			✓
STD			LOW	2-	10.589			✓
STD			HIGH	4-	58.128			✓
Blank				6-	0.006	8-	0.002	✓
7	59		10	1-	125.004	2-	68.910	1
8	59		20 mL	3-	92.749	4-	50.497	20mL acetone
10B	59		10	5-	207.501	6-	112.826	
9	59		10	7-	195.980	8-	106.424	
11	59		10	1-	203.024	2-	109.166	
23B	LB01		10	3-	83.733	4-	47.053	
22	LB01		10	5-	57.162	6-	32.665	
24	LB01		10	7-	103.036	8-	57.707	
45A	LB06		10	1-	15.054	2-	9.767	
32A	LB03		10	3-	61.791	4-	35.297	
31	LB02		10	5-	66.745	6-	38.218	
30	LB02		10	7-	61.202	8-	35.534	
29	LB02		10	1-	29.288	2-	17.302	
28A	LB02		10	3-	Missed	4-	9.917	Missed Rb-sticky keep.
27	LB02		10	5-	12.302	6-	8.530	
26A	LB01		10	7-	105.265	8-	58.825	
46	LB06		10	1-	56.859	2-	34.991	
44	LB06		10	3-	4.869	4-	4.231	* low RD...
40A	LB05		10	5-	61.830	6-	34.594	
39	LB04		10	7-	77.244	8-	43.641	
38A	LB04		10	1-	50.980	2-	28.843	
37	LB04		10	3-	44.010	4-	25.719	
36	LB04		10	5-	35.995	6-	22.848	
35	LB04		10	7-	7.904	8-	6.254	618 with 4 drops.
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		
								No Dilution

7 CHL 59 30 m 2018-034 Bot 7	8 CHL 59 20 m 2018-034 Bot 3	10 B CHL 59 5 m 2018-034 Bot 10	9 CHL 59 10 m 2018-034 Bot 9	11 CHL 59 0 m 2018-034 Bot 11	23 B CHL LB01 20 m 2018-034 Bot 2	22 CHL LB01 Bot-10 2018-034 Bot 1	24 CHL LB01 10 m 2018-034 Bot 3	45 A CHL LB06 30 m 2018-034 Bot 5	32 A CHL LB03 5 m 2018-034 Bot 1	31 CHL LB02 5 m 2018-034 Bot 5
30 CHL LB02 10 m 2018-034 Bot 4	29 CHL LB02 20 m 2018-034 Bot 3	28 A CHL LB02 30 m 2018-034 Bot 2	27 CHL LB02 Bot-10 2018-034 Bot 1	26 A CHL LB01 5 m 2018-034 Bot 5	46 CHL LB06 20 m 2018-034 Bot 6	44 CHL LB06 50 m 2018-034 Bot 4	40 A CHL LB05 5 m 2018-034 Bot 1	39 CHL LB04 5 m 2018-034 Bot 7	38 A CHL LB04 A 10 m 2018-034 Bot 6	
37 CHL LB04 20 m 2018-034 Bot 5	36 CHL LB04 30 m 2018-034 Bot 4	35 CHL LB04 50 m 2018-034 Bot 3								

NOTES: New Batch of 90% Active from lot 1418176180
tiny bubbles in Active Dispenser can not remain!

Chlorophyll Data Sheet

Cruise: 2018-0341a Perouse

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Dates of Cruise: 01-10 Sept

Time and date acetone added: 11 Sept 15:08

Analyst: Hayleigh Rados

Time and date out of freezer: 12 Sept 13:08

Time analysis started: 14:08

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.012			NO Dilutions
STD			LOW	2-	10.577			Needed
STD			HIGH	4-	57.593			
Blank				6-	0.006	8-	0.005	
47	LB06	304	10	1-	117.112	2-	65.662	
48	LB06		10	3-	100.926	4-	55.712	
49A	LB07		10	5-	108.877	6-	63.979	
56	LB08		10	7-	21.031	8-	13.886	
57	LB08		10	1-	53.683	2-	34.580	
58A	LB08		10	3-	79.838	4-	49.293	
55	LB08		10	5-	5.791	6-	4.500	
60	LB09		10	7-	107.854	8-	63.430	
58B	LB08		10	1-	80.469	2-	49.879	
66A	LB09		10	3-	14.081	4-	10.176	-Floaty bits
65	LB09		10	5-	11.200	6-	8.908	
67	LB09		10	7-	43.938	8-	28.238	
68	LB09		10	1-	303.445	2-	169.713	
69	LB09		20	3-	155.685	4-	88.143	20mL acetone
70A	LB10		20	5-	230.576	6-	128.156	20mL Acetone
78	LB11		10	7-	17.078	8-	10.840	
77	LB11		10	1-	8.803	2-	6.093	
79A	LB11		10	3-	37.501	4-	23.344	Rb drop for long time
80	LB11		20	5-	88.179	6-	50.586	
81	LB11		20	7-	196.540	8-	113.000	
95	LB12		10	1-	30.308	2-	18.927	
93	LB12		10	3-	9.456	4-	6.189	
94A	LB12		10	5-	15.336	6-	9.394	
96	LB12		10	7-	156.059	8-	90.664	
Stand-by				1-	0.012			
Std	Low			2-	10.600			
Std	High			4-	57.504			
Blank	by			6-	0.004	8-	0.004	NO Dilutions

47 CHL LB06 10 m 2018-034 Bot 7	48 CHL LB06 5 m 2018-034 Bot 8	49 A CHL LB07 5 m 2018-034 Bot 1	56 CHL LB08 30 m 2018-034 Bot 7	57 CHL LB08 20m 2018-034 Bot 8	58 A CHL LB08 10 m 2018-034 Bot 9	59 CHL LB08 50 m 2018-034 Bot 6	60 CHL LB08 5 m 2018-034 Bot 11	58 B CHL LB08 10 m 2018-034 Bot 9	66 A CHL LB09 30 m 2018-034 Bot 5	70 A CHL LB10 5 m 2018-034 Bot 1 20ml
65 CHL LB09 50 m 2018-034 Bot 5	67 CHL LB09 20 m 2018-034 Bot 7	68 CHL LB09 10 m 2018-034 Bot 8	69 CHL LB09 5 m 2018-034 Bot 9 20ml	78 CHL LB11 30 m 2018-034 Bot 8	77 CHL LB11 50 m 2018-034 Bot 7	79 A CHL LB11 20 m 2018-034 Bot 9	80 CHL LB11 10 m 2018-034 Bot 10 20	95 CHL LB12 20 m 2018-034 Bot 14	93 CHL LB12 50 m 2018-034 Bot 12	94 A CHL LB12 30 m 2018-034 Bot 13
96 CHL LB12 10 m 2018-034 Bot 15										81 CHL LB11 5 m 2018-034 Bot 11 20ml

tiny bubbles in Acetone dispenser.

Chlorophyll Data Sheet

Cruise: 2018-034 La Perouse Page: 3 of 13

Dates of Cruise: 01-11 Sept 2018

Time and date acetone added: 12 SEPT 10:00

Analyst: Hayleigh Rados

Time and date out of freezer: 13 SEPT 8:00

Time analysis started: 9:00

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.014			
STD			LOW	2-	10.702			
STD			HIGH	4-	58.816			
Blank				6-		8-		
117A	LB15		10	1-	12.674	2-	7.457	
112	LB14		10	3-	11.103	4-	7.116	
113	LB14		10	5-	20.025	6-	12.257	
114	LB14		10	7-	25.044	8-	14.535	
115A	LB14		10	1-	37.833	2-	22.529	
116	LB14		10	3-	38.387	4-	23.062	
98A	LB13		10	5-	41.265	6-	30.737	
97	LB12		10	7-	185.771	8-	104.110	
118A	LB16		10	1-	21.805	2-	12.136	
5037A	LC09		10	3-	18.139	4-	11.043	
135	LC11		10	5-	24.325	6-	14.334	
133	LC11		10	7-	7.202	8-	5.030	
134	LC11		10	1-	13.838	2-	8.710	
163	LC08		10	3-	8.785	4-	5.934	
162	LC08		10	5-	4.838	6-	3.436	
154	LC09		20	7-	69.967	8-	39.086	20 ml Acetone
151	LC09		10	1-	MISSED	2-	12.176	MISSED Rb - sticky keys
152	LC09		10	3-	75.767	4-	42.611	
149	LC09		10	5-	6.376	6-	4.319	
150A	LC09		10	7-	10.323	8-	6.549	
136A	LC11		10	1-	147.055	2-	82.614	
169	LC06		10	3-	14.639	4-	11.172	
170A	LC06		10	5-	13.366	6-	8.879	
171	LC06		10	7-	27.278	8-	17.123	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		
								No Dilution

117 CHL A LB15 5 m 2018-034 Bot 1	112 CHL LB14 50 m 2018-034 Bot 14	113 CHL LB14 30 m 2018-034 Bot 15	114 CHL LB14 20 m 2018-034 Bot 16	115 CHL LB14 10 m 2018-034 Bot 17	116 CHL LB14 5 m 2018-034 Bot 18	98 CHL A LB13 5 m 2018-034 Bot 1	97 CHL LB12 5 m 2018-034 Bot 16	118 CHL A LB16 5 m 2018-034 Bot 1	5037A Loop CHL 37 2018-34	135 CHL LC11 20 m 2018-034 Bot 17
133 CHL LC11 50 m 2018-034 Bot 15	134 CHL LC11 30 m 2018-034 Bot 16	163 CHL LC08 30 m 2018-034 Bot 8	162 CHL LC08 50 m 2018-034 Bot 7	154 CHL LC09 5 m 2018-034 Bot 17	151 CHL LC09 20 m 2018-034 Bot 14	152 CHL LC09 10 m 2018-034 Bot 15	149 CHL LC09 50 m 2018-034 Bot 12	150 CHL A LC09 30 m 2018-034 Bot 13	136A CHL LC11 10 m 2018-034 Bot 18	169 CHL LC06 50 m 2018-034 Bot 3
170 CHL A LC06 30 m 2018-034 Bot 4	171 CHL LC06 20 m 2018-034 Bot 5									

No Air Bubbles in Reaction Dispenser

Chlorophyll Data Sheet

Cruise: 2018-034

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Dates of Cruise: 01-11 Sept 1st Perouse

Time and date acetone added: 12 SEPT 11:49

Analyst: Hayleigh Rada

Time and date out of freezer: 13 SEPT 9:49

Time analysis started: 10:49

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.011			
STD			LOW	2-	10.689			
STD			HIGH	4-	57.698			
Blank				6-	0.008	8-	0.007	
172	LC06	304	10	1-	129.104	2-	71.574	
173	LC06		10	3-	120.046	4-	66.744	
166	LC08		10	5-	100.433	6-	55.127	
165A	LC08		10	7-	34.771	8-	19.875	
164	LC08		10	1-	16.021	2-	9.576	
182	LC04		10	3-	134.785	4-	76.786	
184	LC04		10	5-	157.44	6-	89.262	
179	LC04		10	7-	11.402	8-	7.975	
180A	LC04		10	1-	34.452	2-	20.663	
181	LC04		10	3-	95.494	4-	55.894	
188	LC02		10	5-	10.689	6-	7.296	
189	LC02		10	7-	22.584	8-	13.918	
190	LC02		10	1-	67.369	2-	39.044	
191A	LC02		10	3-	163.668	4-	91.053	
193	LC02		20	5-	215.431	6-	113.760	20
196	LC01		10	7-	14.961	8-	11.383	
197A	LC01		10	1-	18.617	2-	12.753	
198	LC01		10	3-	34.460	4-	22.321	
199A	LC01		10	5-	129.100	6-	71.527	
200	LC01		10	7-	215.720	8-	115.942	
5062 A	LOOP		10	1-	192.827	2-	104.434	
201	LD02		10	3-	30.155	4-	22.156	
202A	LD02		10	5-	32.652	6-	22.871	
203	LD02		10	7-	30.623	8-	19.276	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		
								No Dilution

172 CHL LC06 10 m 2018-034 Bot 6	173 CHL LC06 5 m 2018-034 Bot 7	166 CHL LC08 5 m 2018-034 Bot 11	165 A CHL LC08 10 m 2018-034 Bot 10	164 CHL LC08 20 m 2018-034 Bot 9	182 CHL LC04 10 m 2018-034 Bot 9	184 CHL LC04 5 m 2018-034 Bot 11	179 CHL LC04 50 m 2018-034 Bot 6	180 CHL LC04 30 m 2018-034 Bot 7	181 CHL LC04 20 m 2018-034 Bot 8	188 CHL LC02 50 m 2018-034 Bot 3 188
189 CHL LC02 30 m 2018-034 Bot 4 189	190 CHL LC02 20 m 2018-034 Bot 5 190	191 CHL LC02 10 m 2018-034 Bot 6 191 A	193 CHL LC02 5 m 2018-034 Bot 8 20m	196 CHL LC01 50 m 2018-034 Bot 3	198 CHL LC01 20 m 2018-034 Bot 5	199 CHL A LC01 10 m 2018-034 Bot 6	200 CHL LC01 5 m 2018-034 Bot 7	5062 A Loop 62 2018-34 CHL	201 CHL LD02 Bot-10 2018-034 Bot 1	202 A CHL LD02 30 m 2018-034 Bot 2
203 CHL LD02 20 m 2018-034 Bot 3					197 A CHL LC01 30 m 2018-034 Bot 4					

Chlorophyll Data Sheet

Cruise: 2018-0341aProuse

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Dates of Cruise: 01-11 Sept 2018

Time and date acetone added: 12 Sept 15:28

Analyst: Hayleigh Rades

Time and date out of freezer: 13 Sept 13:28

Time analysis started: 14:28

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.005			
STD			LOW	2-	10.596			
STD			HIGH	4-	57.858			
Blank				6-	0.002	8-	0.000	
204	LD2	304	10	1-	237.321	2-	126.812	
205	LD2		20	3-	150.519	4-	81.375	20mL
208	LD4		10	5-	36.697	6-	22.065	
207	LD4		10	7-	18.188	8-	12.467	
206	LD4		10	1-	28.519	2-	21.587	
209A	LD4		20	3-	143.582	4-	78.969	20mL
210	LD4		20	5-	212.294	6-	116.771	20mL
5067	LOOF		20	7-	188.898	8-	102.330	20mL
211	LG01		10	1-	21.080	2-	15.614	
213A	LG1		10	3-	47.735	4-	31.853	
214	LG1		10	5-	197.077	6-	113.394	
231	LG4		10	7-	26.598	8-	16.741	
229	LG4		10	1-	5.385	2-	4.171	
233A	LG4		10	3-	228.805	4-	128.033	
223	LG2		20	5-	281.400	6-	151.639	20
219	LG2		10	7-	18.880	8-	13.389	
220A	LG2		10	1-	27.644	2-	18.509	
218	LG2		10	3-	13.652	4-	10.753	
221	LG2		10	5-	53.425	6-	32.488	
215	LG1		20	7-	185.004	8-	103.568	20mL
260	LG9		10	1-	46.541	2-	26.345	
251	LG6		20	3-	105.803	4-	58.869	20
249	LG6		10	5-	196.900	6-	111.389	
248	LG6		10	7-	38.055	8-	22.746	
Stand-by				1-	0.008			
Std	Low			2-	10.155			
Std	High			4-	57.534			
Blank	by			6-	0.009	8-	0.007	
								No Dilutions

204 CHL LD02 10 m 2018-034 Bot 4	205 CHL LD02 5 m 2018-034 Bot 5 20mL	208 CHL LD04 20 m 2018-034 Bot 3	207 CHL LD04 30 m 2018-034 Bot 2	206 CHL LD04 Bot-10 2018-034 Bot 1	209 A CHL LD04 10 m 2018-034 Bot 4 20mL	210 CHL LD04 5 m 2018-034 Bot 5 20	2018-34 CHL loop 5067 20m fu	211 CHL LG01 Bot-10 2018-034 Bot 1	213A CHL LG01 20 m 2018-034 Bot 3
214 CHL LG01 10 m 2018-034 Bot 4	231 CHL LG04 20 m 2018-034 Bot 7	229 CHL LG04 50 m 2018-034 Bot 5	233 A CHL LG04 5 m 2018-034 Bot 9	223 CHL LG02 5 m 2018-034 Bot 8 20mL	219 CHL LG02 30 m 2018-034 Bot 4	220 A CHL LG02 20 m 2018-034 Bot 5	218 CHL LG02 50 m 2018-034 Bot 3	221 CHL LG02 10 m 2018-034 Bot 6	215 CHL LG01 5 m 2018-034 Bot 5 20mL
260 CHL LG09 5 m 2018-034 Bot 9	251 CHL LG06 5 m 2018-034 Bot 18 20mL	249 CHL LG06 10 m 2018-034 Bot 16	248 CHL LG06 20 m 2018-034 Bot 15						

NO bubbles in Accutase bottle top dispenser.

Chlorophyll Data Sheet

Cruise: 2018-034 *laperoux*

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Dates of Cruise: 01-11 Sept

Time and date acetone added: 13 Sept 13:49

Analyst: Hayleigh Rados

Time and date out of freezer: 14 Sept 11:49

Time analysis started: 13:10

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.011			/
STD			LOW	2-	10.820			/
STD			HIGH	4-	58.598			← a little high ?
Blank				6-	0.004	8-	0.005	/
247A	LG06	304	10	1-	20.499	2-	12.191	
246	LG06		10	3-	4.729	4-	3.327	
230	LG04		10	5-	14.147	6-	9.355	
232	LG04		10	7-	123.105	8-	73.037	
289	LBP7		10	1-	27.141	2-	15.278	
287	LBP7		10	3-	29.938	4-	17.075	
286A	LBP7		10	5-	56.535	6-	33.959	Rb Dropping
285	LBP7		10	7-	21.124	8-	13.134	
284	LBP7		10	1-	4.001	2-	2.729	
5085A	LOOP		10	3-	73.018	4-	43.567	
5084A	LOOP		20	5-	27.327	6-	15.771	20 mL
317	LBP3		10	7-	317.575	8-	182.020	
316A	LBP3		10	1-	89.142	2-	59.861	
314	LBP3		10	3-	28.780	4-	23.567	Ra did not drop much...
308	LBP5		20	5-	200.122	6-	113.165	20 mL
307	LBP5		20	7-	189.102	8-	107.805	20 mL
306	LBP5		10	1-	20.733	2-	14.533	
304	LBP5		10	3-	13.167	4-	9.868	
305A	LBP5		10	5-	6.686	6-	4.649	
339	CS00		10	7-	52.118	8-	29.635	
338	CS00		10	1-	51.527	2-	29.846	
337	CS00		10	3-	48.241	4-	28.393	
336A	CS00		10	5-	11.248	6-	7.409	
5106	LOOP		10	7-	72.033	8-	42.777	
Stand-by				1-	0.008			
Std	Low			2-6	10.562			
Std	High			4-8	57.700			
Blank	by			6-2	0.016	8-3	0.015	NO Dilutions

20 mL ACETONE: 5084A, 308, 307
Loop

247A	246	230	232	289	287	286A	285	284	Loop 5085	
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
LG06	LG06	LG04	LG04	LBP07	LBP07	LBP07	LBP07	LBP07		
30 m	50 m	30 m	10 m	5 m	10 m	20 m	30 m	50 m	2018-34	2018-34
2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	Loop 5085	Loop 5085
Bot 14	Bot 13	Bot 6	Bot 8	Bot 21	Bot 19	Bot 18	Bot 17	Bot 16		
317	316A	314	308	307	306	304	305A	339	338	337
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
LBP03	LBP03	LBP03	LBP05	LBP05	LBP05	LBP05	LBP05	CS00	CS00	CS00
10 m	20 m	50 m	5 m	10 m	20 m	50 m	30 m	10 m	20 m	30 m
2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034
Bot 9	Bot 8	Bot 6	Bot 19	Bot 18	Bot 17	Bot 15	Bot 16	Bot 19	Bot 18	Bot 17
			20m	20						
336A	5106A									
CHL	CHL									
CS00	2018-34									
50 m	Loop									
2018-034	106									
Bot 16										

NOTE: Fluorometer was turned on late that is why samples were read 10 min later than usual

Chlorophyll Data Sheet

Cruise: 2018-034 La Perouse

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Dates of Cruise: 01-11 Sept

Time and date acetone added: 17 Sept 10:07

Analyst: Hayluh

Time and date out of freezer: 18 Sept 8:00

Time analysis started: 9:00

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.013			/
STD			LOW	2-	10.655			/
STD			HIGH	4-	58.088			/
Blank				6-	0.014	8-	0.014	/
319	LBP03	304	20	1-	125.885	2-	69.862	20mL Ace, 3xDF
315	LBP03		10	3-	44.603	4-	32.020	Ra high? Rb dropped
366 A	CS04		10	5-	106.263	6-	58.700	
367	CS04		10	7-	131.286	8-	71.254	
361	CS02		10	1-	65.348	2-	37.114	
360 A	CS02		10	3-	66.931	4-	37.61	
358	CS02		10	5-	27.675	6-	16.518	Delete xtra read
359	CS02		10	7-	66.565	8-	36.698	
341	CS00		10	1-	51.120	2-	29.089	
202 B	LD02		10	3-	31.399	4-	21.860	
5062 B	LOOP		10	5-	204.89	6-	110.439	
199 B	LC01		10	7-	133.467	8-	74.096	
197 B	LC01		10	1-	18.470	2-	12.635	
191 B	LC02		10	3-	167.524	4-	92.479	
180 B	LC04		10	5-	35.572	6-	21.087	
165 B	LC08		10	7-	36.156	8-	21.369	
170 B	LC06		10	1-	13.065	2-	8.474	
136 B	LC11		10	3-	146.441	4-	81.878	
150 B	LC09		10	5-	9.951	6-	6.231	
137	LC11		10	7-	165.175	8-	91.940	Rb drop
5037 B	LOOP		10	1-	9.0	2-	10.52	lost Ra
118 B	LB16		10	3-	20.764	4-	11.589	
117 B	LB15		10	5-	12.060	6-	7.356	
115 B	LB14		10	7-	36.921	8-9	21.839	replaced value
Stand-by				1-				One 3x Dilution
Std	Low			2-				to Sample 319.
Std	High			4-				
Blank	by			6-		8-		

319	315	366 A	367	361	360	358	359	341	202 B	Sa - B
CHL	CHL	CHL	CHL	CHL	CHL A	CHL	CHL	CHL	CHL	
LBP03	LBP03	CS04	CS04	CS02	CS02	CS02	CS02	CHL	LD02	
5 m	30 m	30 m	20 m	5 m	10 m	30 m	20 m	CS00	30 m	2018-34
2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	
Bot 11	Bot 7	Bot 4	Bot 5	Bot 20	Bot 19	Bot 17	Bot 18	Bot 21	Bot 2	CHL
20mL										
199 B	197 B	CHL	180 B	165 B	170 B	136 B	150 B	137	5037 B	118 B
CHL	CHL	LC02	CHL	CHL	CHL	CHL	CHL	CHL	LOOP	CHL
LC01	LC01	10 m	LC04	LC08	LC06	LC11	LC09	LC11	CHL	LB16
10 m	30 m	2018-034	30 m	10 m	30 m	10 m	30 m	5 m	37	5 m
2018-034	2018-034	Bot 6	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-34	2018-034
Bot 6	Bot 4	191 B	Bot 7	Bot 10	Bot 4	Bot 18	Bot 13	Bot 19		Bot 1
117	115 B									
CHL B	CHL									
LB15	LB14									
5 m	10 m									
2018-034	2018-034									
Bot 1	Bot 17									

122

Dilution 5mL extract + 10 mL Dacetone
 using pipet bay Auto pipet
 Kb Ray
 0.043 0.078

Chlorophyll Data Sheet

Cruise: 2018-034 1a Perouse

Page: 8 of 13

Dates of Cruise: 01-11 Sept 2018

Time and date acetone added: 17 Sept 12:10

Analyst: Hayleugh

Time and date out of freezer: 18 Sept 10:10

Time analysis started: 11:10

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.009			
STD			LOW	2-	10.567			
STD			HIGH	4-	57.483			
Blank				6-	0.006	8-	0.006	
98B	LB13	304	10	1-	55.268	2-	32.929	
94B	LB12		10	3-	15.635	4-	9.757	
79B	LB11		10	5-	37.654	6-	23.654	manually insert value
70B	LB10		20	7-	239.248	8-	132.501	
66B	LB9		10	1-	15.051	2-	11.027	
49B	LB7		10	3-	108.669	4-	64.010	
45B	LB6		10	5-	14.900	6-	9.536	replace 9-
40B	LB5		10	7-	63.450	8-	35.439	
39B	LB04		10	1-	52.182	2-	29.020	
32B	LB03		10	3-	64.316	4-	36.512	
28B	LB02		10	5-	12.392	6-	8.118	
26B	LB01		10	7-	107.931	8-	59.937	
23A	LB01		10	1-	87.377	2-	48.909	
10A	59		10	3-	217.391	4-	117.207	
374	CS06		10	5-	19.153	6-	14.296	checked Raw/4 dpp Some
372A	SS3		10	7-	54.306	8-	31.119	
371A	SS3		10	1-	52.371	2-	30.014	
370A	SS3		10	3- 9-	49.222	4-	28.299	take 9-
369	CS04		10	5-	98.327	6-	84.541	Re dropping
368	CS04		10	7-	97.600	8-	53.715	
365	CS04		10	1-	31.539	2-	19.158	
375	CS06		10	3-	22.729	4-	15.994	
376A	CS06		10	5-	51.677	6-	31.726	
377	CS06		10	7-	108.681	8-	60.516	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

98 B CHL LB13 5 m 2018-034 Bot 1	94 B CHL LB12 30 m 2018-034 Bot 13	79 B CHL LB11 20 m 2018-034 Bot 9	70 B CHL LB10 5 m 2018-034 Bot 1 20m	66 B CHL LB09 30 m 2018-034 Bot 6	49 B CHL LB07 5 m 2018-034 Bot 1	45 B CHL LB06 30 m 2018-034 Bot 5	40 B CHL LB05 5 m 2018-034 Bot 1	38 B CHL LB04 B 10 m 2018-034 Bot 6	32 B CHL LB03 5 m 2018-034 Bot 1
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28 B CHL LB02 30 m 2018-034 Bot 2	26 B CHL LB01 5 m 2018-034 Bot 5	23 A CHL LB01 20 m 2018-034 Bot 2	10 A CHL 59 5 m 2018-034 Bot 10	374 CHL CS06 20 m 2018-034 Bot 2	372 A CHL SS3 5 m 2018-034 Bot 3	371 M CHL SS3 10 m 2018-034 Bot 2	370 A CHL SS3 20 m 2018-034 Bot 1	369 CHL CS04 5 m 2018-034 Bot 7	368 CHL CS04 10 m 2018-034 Bot 6
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365 CHL CS04 50 m 2018-034 Bot 3	375 CHL CS06 20 m 2018-034 Bot 3	376 A CHL CS06 20 m 2018-034 Bot 4	377 CHL CS06 20 m 2018-034 Bot 5
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[illegible]

Chlorophyll Data Sheet

Cruise: 2018-034 1a Perouse

Page: 9 of 13

Dates of Cruise: 01-11 Sept 2018

Time and date acetone added: 17 Sept 16:02

Analyst: Hayleigh

Time and date out of freezer: 18 Sept 14:00

Time analysis started: 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.010			/
STD			LOW	2-	10.553			/
STD			HIGH	4-	57.490			/
Blank				6-	0.005	8- 0.	0.005	/
379	CS06	10	10	1-	121.021	2-	66.246	
389	CS09	10	10	3-	61.107	4-	MISSED	MISSED Ra
387A	CS09	10	10	5-	37.242	6-	23.731	
388	CS09	10	10	7-	129.596	8-	72.378	
386	CS09	10	10	1-	13.724	2-	9.957	
390	CS09	10	10	3-	43.985	4-	25.447	
394A	S85	10	10	5-	44.109	6-	25.476	
393A	S85	10	10	7-	22	8-	MISSED	MISSED Ra !!
392A	S85	10	10	1-	42.442	2-	25.273	
403	JS	10	10	3-	32.127	4-	19.061	
402A	JS	10	10	5-	31.983	6-	19.288	
408A	14	10	10	7-	136.302	8-	73.785	
407A	14	10	10	1-	142.811	2-	81.061	
406A	14	10	10	3-	113.552	4-	63.181	
5151A	LOOP	10	10	5-	46.450	6-	26.910	
405	JS	10	10	7-	32.129	8-	19.086	
409	JS	10	10	1-	32.899	2-	19.727	
401	JS	10	10	3-	25.307	4-	15.301	
418	11	10	10	5-	41.307	6-	24.572	
415	11	10	10	7-	37.199	8-	22.306	
416A	11	10	10	1-	39.951	2-	23.928	
411	12	10	10	3-	63.449	4-	38.253	
409A	12	10	10	5-	73.219	6-	44.108	
410	12	10	10	7-	69.580	8-	42.3	
Stand-by				1-	0.005			NO 20mL Acet
Std	Low			2-	10.542			NO Dilutions
Std	High			4-	57.077		low !!	Fluor taking
Blank	by			6-	0.004	8-	0.004	looking + time to find Abs.

NOTE: forgot to capture
text, typed this in
Excel. Double checked
values, no errors.

Chlorophyll Data Sheet

Cruise: 2018-034 10/1/2018

Page: 10 of 13

Dates of Cruise: 01-11/2018

Time and date acetone added: 18 Sept 10:30

Analyst: Hayleigh

Time and date out of freezer: 19 Sept 8:30

Time analysis started: 9:30

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.011			
STD			LOW	2-	10.643			
STD			HIGH	4-	57.771			
Blank				6-	0.006	8-	0.006	
435	22	304	10	1-	98.550	2-	60.443	
434A	22		10	3-	40.905	4-	29.219	
424	CPF1		10	5-	25.229	6-	15.621	
423A	CPF1		10	7-	29.618	8-	18.613	
422	CPF1		10	1-	22.138	2-	14.686	
420	CPF2		10	3-	15.351	4-	10.070	
419	CPF2		10	5-	15.276	6-	10.451	
421A	CPF2		10	7-	16.117	8-	10.577	
442	28		10	1-	79.478	2-	48.236	
443A	28		20	3-	48.316	4-	29.927	20mL
443B	28		20	5-	48.919	6-	29.873	20mL
441	28		10	7-	43.795	8-	29.725	
440A	24		10	1-	70.091	2-	42.635	
439	24		10	3-	57.818	4-	36.313	
438	24		10	5-	45.474	6-9	28.775	
437	22		20	7-	80.130	8-	46.455	20mL
458A	38		10	1-	63.316	2-	41.052	
457	38		10	3-	22.766	4-	15.447	
459	38		20	5-	40.815	6-	23.673	20mL
453	GEO1		10	7-	14.751	8-	10.702	
454	GEO1		10	1-	41.865	2-	26.577	
456	GEO1		10	3-	53.302	4-	32.832	
452	GEO1		10	5-	7.613	6-	5.928	
455A	GEO1		10	7-	56.112	8-	35.496	
Stand-by				1-	0.009			No Dilutions.
Std	Low			2-	10.454			
Std	High			4-	57.185			
Blank	by			6-	0.020	8-	0.020	New box of glass

Chlorophyll Data Sheet

Cruise: 2018-034 la Perouse

Page: 11 of 13

Dates of Cruise: 01-15 Sept

Time and date acetone added: 19 Sept 11:04

Analyst: Hayleigh

Time and date out of freezer: 20 Sept 9:10

Time analysis started: 10:30

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.010			
STD			LOW	2-	10.591			
STD			HIGH	4-	57.496			
Blank				6-	0.035	8-	0.034	← higher, new pack of glass tubes.
466	42	304	10	1-	7.256	2-	5.975	
468A	42	304	10	3-	49.392	4-	31.449	
467	42	304	10	5-	11.864	6-	8.700	
470	42		10	7-	75.713	8-	45.412	
469	42		10	1-	71.215	2-	44.173	
472	46		10	3-	39.515	4-	25.111	
473	46		10	5-	41.817	6-	26.001	
471A	46		10	7-	16.962	8-	12.625	
370B	553		10	1-	48.987	2-	28.301	
376B	556		10	3- 9-	52.385	4-	33.296	
372B	553		10	5-	57.929	6-	31.479	
387B	5509		10	7-	39.309	8-	26.274	
393B	555		10	1-	43.140	2-	25.322	
392B	555		10	3-	40.446	4-	24.209	
394B	555		10	5-	44.983	6- 9-	26.006	replace 9- value
402B	55		10	7-	30.941	8-	18.571	
407B	14		10	1-	132.628	2-	73.817	
455B	GE01		10	3-	51.521	4-	31.486	
440B	24		10	5-	72.276	6-	44.305	
434B	22		10	7-	36.374	8-	26.086	
423B	CPF1		10	1-	28.892	2-	18.039	
408B	14		10	3-	138.435	4-	76.458	
409B	12		20	5- 9-	35.747	6-	22.187	20ml Acetone
416B	11		10	7-	40.548	8-	24.412	
Stand-by				1-				good. No dilutions.
Std	Low			2-				ORb taking a
Std	High			4-				long time to
Blank	by			6-		8-		stabilize.

[illegible]

Chlorophyll Data Sheet

Cruise: 2018-0341aPerouse

Page: 12 of 13

Dates of Cruise: 01-11 Sept 2018

Time and date acetone added: 19 Sept 2018 13:22

Analyst: Hayleigh

Time and date out of freezer: 13:10 Sept 20th

Time analysis started: 13:40

* out of freezer late

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.009			
STD			LOW	2-	10.472			
STD			HIGH	4-	57.308			
Blank				6-	0.025	8-	0.025	
458 B	38		10	1-	62.715	2-	38.744	
468 B	42		10	3-	55.115	4-	35.255	
471 B	46		10	5-	17.580	6-	12.710	
371 B	353		10	7-9-	56.988	8-	32.724	
5151 B	LOOP		10	1-	48.792	2-	28.408	
406 B	14		10	3-	119.560	4-	66.889	
421 B	CPF2		10	5-	15.935	6-	10.419	
357	CS02		10	7-	18.540	8-	12.334	
336 B	CS00		10	1-	11.486	2- 9	7.528	
5106 B	LOOP		10	3-9	71.846	4-	42.152	
5103 B	LOOP		20	5-	84.768	6-	48.660	20mL Ace long time
366 B	CS04		10	7-	96.805	8-	53.729	
360 B	CS02		10	1-	65.693	2-	37.301	
				3-		4-		
				5-		6-		
				7-		8-		
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

20mL Acetone: 5103B

458 B	468 B	471 B	371 B	406 B	421 B	357	336 B	510 B	5103 B
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
38	42	46	SS3	14	CPF2	CS02	CS00	2018-34	2018-34
10 m	10 m	20 m	10 m	0 m	50 m	50 m	50 m	Loop	Loop
2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	2018-034	106	103
Bot 2	Bot 9	Bot 1	Bot 2	Bot 1	Bot 3	Bot 16	Bot 16		

368 B	360 B
CHL	CHL
CS04	CS02
30 m	10 m
2018-034	2018-034
Bot 4	Bot 19

Chlorophyll Data Sheet

Cruise: 2018-034 / afaouse

Page: 13 of 13

Dates of Cruise: 01-11 Sept

Time and date acetone added: 19 Sept 14:30

Analyst: Hayleigh

Time and date out of freezer: 13:10 20 Sept

* out of freezer late.

Time analysis started: 14:20

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-				
STD			LOW	2-				
STD			HIGH	4-				
Blank				6-		8-		
305B	LBP05304	10	1-	7.135	2-	4.958		
316B	LBP03	10	3-	93.205	4-	62.007		
209B	L004	10	5-	272.528	6-	149.450		
5067B	LOOP	20	7-	191.022	8-	102.878	20mL Ace	
212	L001	10	1-	21.130	2-	15.316		
213B	L001	10	3-9	54.550	4-	38.560	replace w/ 9-	
220B	L002	10	5-	26.691	6-	18.216		
247B	L006	10	7-	19.840	8-	11.909		
233B	L004	10	1-	185.650	2-	106.724		
286B	LBP7	10	3-	56.773	4-	34.100		
5085B	LOOP	20	5-9-	37.296	6-	22.191	replace w/ 9-	
5084B	LOOP	10	7-	51.903	8-	29.619		
			1-		2-			
			3-		4-			
			5-		6-			
			7-		8-			
			1-		2-			
			3-		4-			
			5-		6-			
			7-		8-			
			1-		2-			
			3-		4-			
			5-		6-			
			7-		8-			No Dilutions.
Stand-by			1-	0.009				
Std	Low		2-	10.584				
Std	High		4-	57.627				
Blank	by		6-	0.028	8-	0.029		

305 B CHL LBP05 30 m 2018-034 Bot 16	316 B CHL LBP03 20 m 2018-034 Bot 2	209 B CHL LD04 10 m 2018-034 Bot 4	212 CHL LG01 30 m 2018-034 Bot 2	213 B CHL LG01 20 m 2018-034 Bot 3	220 B CHL LG02 20 m 2018-034 Bot 5	247 B CHL LG06 30 m 2018-034 Bot 14	233 B CHL LG04 5 m 2018-034 Bot 9	286 B CHL LBP07 20 m 2018-034 Bot 18	Loop 5085 CHL 2018-36 Loop 5085
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2084 B
CHL
2018-34
Loop 84

