

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2019-01</u>		Cast/Station Name: _____		Analysis Date (dd mmm yyyy): <u>12</u> <u>3</u> <u>19</u>	
Autosal Model: <u>8400 B</u>		Serial Number: <u>68572</u>			
Initial Standby Value: <u>24+6032</u>		Ratio After Standardization: <u>24+6037</u>			
Cell Standardization (Daily)		Standardization Values:		Standard Info.	
Conductivity must be ± 0.00001 compared to Standard 	Before: _____		K ₁₅ VALUE: 0.999 <u>87</u>		Bath Temperature: <u>29</u> °C
	After: _____		Batch #: <u>P 161</u>		Sample Temperature: <u>22</u> °C
	Notes: _____		Batch Date: <u>MAY 3/20</u>		Room Temperature: <u>22</u> °C
				Analyst: <u>H. J.</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments	
5002	JF1		1.77448	1.77449		 Values Samples require correction	
5003	JF2		1.80723	1.80723			
5004	JF3		1.80998	1.80998			
5005	JF4		1.81265	1.81266			
3	P1		1.87175	1.87176			
26	P2		1.87265	1.87266			
28	P3		1.86718	1.86718			
46	P4		1.97235	1.97233			
47A	P4		1.97240	1.97241			
47B	P4		1.97234	1.97235			
48B	P4		1.96790	1.96789			
48A	P4		1.96773	1.96775			
49	P4		1.96321	1.96322			
63	P4		1.86785	1.86784			
80	P5		1.86571	1.86573			
5021	P5		1.86572	1.86572			
81	P6		1.86846	1.86846			
5023	P7		1.86788	1.86789			
82	P7		1.86798	1.86799			
87	P8		1.96365	1.96365			
105	P8		1.86870	1.86871			
86A	P8		1.96772	1.96774			
86B	P8		1.96782	1.96780			
85	P8		1.97265	1.97266			
							Final Standby Value:

Notes: _____

5002 SAL JF1 LOOP 2019-001 Bot 1	5003 SAL JF2 LOOP 2019-001 Bot 1	5004 SAL JF3 LOOP 2019-001 Bot 1	5005 SAL JF4 LOOP 2019-001 Bot 1	3 SAL P1 5 m 2019-001 Bot 3	26 SAL P2 5 m 2019-001 Bot 8	28 SAL P3 5 m 2019-001 Bot 1	46 Sal P4 1250 m 2019-001 Bot 2
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47A Sal P4 1250 m 2019-001 Bot 3	47B Sal P4 1250 m 2019-001 Bot 3	48B Sal P4 1000 m 2019-001 Bot 4	48A Sal P4 1000 m 2019-001 Bot 4	49 Sal P4 800 m 2019-001 Bot 5	63 Sal P4 5 m 2019-001 Bot 19	80 SAL P5 5 m 2019-001 Bot 1	5021 SAL P5 LOOP 2019-001 Bot 1
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81 SAL P6 5 m 2019-001 Bot 1	5023 5024 SAL P7 LOOP 2019-001 Bot 1	82 SAL P7 5 m 2019-001 Bot 1	87 SAL P8 800 m 2019-001 Bot 5	105 SAL P8 5 m 2019-001 Bot 23	86A SAL P8 1000 m 2019-001 Bot 4	86B SAL P8 1000 m 2019-001 Bot 4	85 SAL P8 1250 m 2019-001 Bot 3
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Cruise ID: <u>2019-01</u>		Cast/Station Name: _____		Analysis Date (dd mmm yyyy): <u>12</u> <u>3</u> <u>19</u>	
Autosal Model: <u>8400 B</u>		Serial Number: <u>68572</u>			
Initial Standby Value: <u>24 + 6037</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)		Standardization Values:		Standard Info.	
Conductivity must be ± 0.00001 compared to Standard 	Before: _____		K ₁₅ VALUE: 0.999 <u>87</u>		Bath Temperature: <u>24</u> °C
	After: _____		Batch #: <u>P 161</u>		Sample Temperature: <u>22</u> °C
	Notes: _____		Batch Date: <u>MAY 3/20</u>		Room Temperature: <u>22</u> °C
				Analyst: <u>H.O.</u>	

[illegible]

Notes: _____

84 SAL P8 1500 m 2019-001 Bot 2	83 A SAL P8 2000 m 2019-001 Bot 1	83 B SAL P8 2000 m 2019-001 Bot 1	107 SAL P9 5 m 2019-001 Bot 1	5031 SAL P10 LOOP 2019-001 Bot 1	108 SAL P10 5 m 2019-001 Bot 1	109 SAL P11 5 m 2019-001 Bot 1	127 A SAL P12 3000 m 2019-001 Bot 2
127 B SAL P12 3000 m 2019-001 Bot 2	128 SAL P12 3000 m 2019-001 Bot 3	129 SAL P12 2500 m 2019-001 Bot 4	130 SAL P12 2000 m 2019-001 Bot 5	131 A SAL P12 1500 m 2019-001 Bot 6	131 B SAL P12 1500 m 2019-001 Bot 6	132 SAL P12 1250 m 2019-001 Bot 7	133 A SAL P12 1000 m 2019-001 Bot 8
133 B SAL P12 1000 m 2019-001 Bot 8	148 SAL P12 5 m 2019-001 Bot 23	5037 SAL P17 2019-001 Loop	167 SAL P17 5 m 2019-001 Bot 1	5040 SAL P17-P18 LOOP 2019-001 Bot 1	189 Sal P18 10 m 2019-001 Bot 23	190 Sal P18 5 m 2019-001 Bot 24	188 Sal P18 25 m 2019-001 Bot 22

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2019-01</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>12</u> <u>3</u> <u>19</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572/69086</u>	
Initial Standby Value: <u>24+6037</u>	Ratio After Standardization: <u>24+6045</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____ After: _____ Notes: _____	K ₁₅ VALUE: 0.999 <u>87</u> Batch #: <u>P 161</u> Batch Date: <u>MAY 3/20</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>22</u> °C Room Temperature: <u>22</u> °C Analyst: <u>H.M.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
184	P18		1.93630	1.93630		} Values require correction
185	P18		1.88704	1.88706		
186	P18		1.86247	1.86245		
187	P18		1.86230	1.86228		69086 SALINOMETER
181	P18		1.94103	1.94103		
182	P18		1.93993	1.94994		
178	P18		1.95760	1.95761		
179	P18		1.94806	1.94809		
180	P18		1.94515	1.94514		
183	P18		1.94029	1.94029		
176	P18		1.96769	1.96768		
177	P18		1.96337	1.96340		
174	P18		1.97462	1.97460		
175	P18		1.97126	1.97127		
172	P18		1.97917	1.97920		
173	P18		1.97694	1.97693		
5042	P19	Loop	1.86212	1.86214		
191	P19		1.86208	1.86211		
193A	P20		1.98298	1.98295		
193B	P20		1.98298	1.98301		
194	P20		1.98229	1.98231		
195	P20		1.98100	1.98103		
196A	P20		1.97887	1.97886		
196B	P20		1.97867	1.97867		
	LINDSAY		1.94773	1.94774	NO LINGER	Final Standby Value: _____

Notes: _____

184
Sal
P18
150 m
2019-001
Bot 17

185
Sal
P18
100 m
2019-001
Bot 18

186
Sal
P18
75 m
2019-001
Bot 19

187
Sal
P18
50 m
2019-001
Bot 20

181
Sal
P18
250 m
2019-001
Bot 14

182
Sal
P18
200 m
2019-001
Bot 15

178
Sal
P18
600 m
2019-001
Bot 11

179
Sal
P18
400 m
2019-001
Bot 12

180
Sal
P18
300 m
2019-001
Bot 13

183
Sal
P18
175 m
2019-001
Bot 16

176
Sal
P18
1000 m
2019-001
Bot 9

177
Sal
P18
800 m
2019-001
Bot 10

174
Sal
P18
1500 m
2019-001
Bot 7

175
Sal
P18
1250 m
2019-001
Bot 8

172
Sal
P18
2000 m
2019-001
Bot 5

173
Sal
P18
1750 m
2019-001
Bot 6

5042
SAL
P19
LOOP
2019-001
Bot 1

191
SAL
P19
5 m
2019-001
Bot 1

193 A
Sal
P20
3500 m
2019-001
Bot 2

193 B
Sal
P20
3500 m
2019-001
Bot 2

194
Sal
P20
3000 m
2019-001
Bot 3

195
Sal
P20
2500 m
2019-001
Bot 4

196 A
Sal
P20
2000 m
2019-001
Bot 5

196 B
Sal
P20
2000 m
2019-001
Bot 5

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2019-01</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>22 03 19</u>
Autosal Model: <u>8400 B</u>	Serial Number: <u>69086</u>	
Initial Standby Value: <u>24+6046</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: 0.999 <u>87</u>
	After: _____	Batch #: <u>P161</u>
	Notes: _____	Batch Date: <u>MAY 3/20</u>
		Bath Temperature: <u>24</u> °C
		Sample Temperature: <u>22</u> °C
		Room Temperature: <u>22</u> °C
		Analyst: <u>H. M.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
210A	P22		1.98241	1.98242		
217	P22		1.98324	1.98333	1.98343	1.98332
5049	P22	Loop	1.86117	1.86119		
215	P21		1.86288	1.86287		
214	P20		1.86269	1.86280	1.86278	
199	P20		1.96752	1.96764	1.96768	
198	P20		1.97151	1.97154		
197	P20		1.97421	1.97424		
256	P26		1.98371	1.98373		
5050	P22/23	Loop	1.86098	1.86101		
238	P22		1.86118	1.86118		
222	P22		1.97418	1.97420		
221	P22		1.97647	1.97647		
220	P22		1.97845	1.97848		
219	P22		1.98085	1.98093	1.98094	
218B	P22		1.98224	1.98226		
263A	P26		1.96822	1.96824		
262	P26		1.97203	1.97199		
261	P26		1.97507	1.97512	1.97512	
260	P26		1.97862	1.97863		
259	P26		1.98098	1.98100		
258	P26		1.98241	1.98247	1.98248	
257A	P26		1.98335	1.98335		
257B	P26		1.98331	1.98335		
						Final Standby Value: _____

Notes: _____

218A
Sal
P22
3000 m
2019-001
Bot 3

217
Sal
P22
3500 m
2019-001
Bot 2

5049
SAL
P22
LOOP
2019-001
Bot 1

215
SAL
P21
5 m
2019-001
Bot 1

214
Sal
P20
5 m
2019-001
Bot 24

199
Sal
P20
1000 m
2019-001
Bot 8

198
Sal
P20
1250 m
2019-001
Bot 7

197
Sal
P20
1500 m
2019-001
Bot 6

256
Sal
P26
4000 m
2019-001
Bot 2

5050
Sal
P22
Loop
2019-001

238
Sal
P22
5 m
2019-001
Bot 24

222
Sal
P22
1500 m
2019-001
Bot 7

221
Sal
P22
1750 m
2019-001
Bot 6

220
Sal
P22
2000 m
2019-001
Bot 5

219
Sal
P22
2500 m
2019-001
Bot 4

218B
Sal
P22
3000 m
2019-001
Bot 3

263A
Sal
P26
1000 m
2019-001
Bot 9

262
Sal
P26
1250 m
2019-001
Bot 8

261
Sal
P26
1500 m
2019-001
Bot 7

260
Sal
P26
2000 m
2019-001
Bot 6

259
Sal
P26
2500 m
2019-001
Bot 5

258
Sal
P26
3000 m
2019-001
Bot 4

257A
Sal
P26
3500 m
2019-001
Bot 3

257B
Sal
P26
3500 m
2019-001
Bot 3

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2019-01</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>22 3 19</u>
Autosal Model: <u>8400 B</u>	Serial Number: <u>69086</u>	
Initial Standby Value: <u>24 + 6046</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: 0.999 <u>87</u>
	After: _____	Batch #: <u>P 161</u>
	Notes: _____	Batch Date: <u>MAY 3/20</u>
		Bath Temperature: <u>24</u> °C
		Sample Temperature: <u>22</u> °C
		Room Temperature: <u>22</u> °C
		Analyst: <u>H.O.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
316A	P24		1.97848	1.97847		
317	P24		1.97649	1.97650		
316B	P24		1.97843	1.97847		
318	P24		1.97397	1.97396		
311	P25		1.86224	1.86224		
5059	P25	Loop	1.86226	1.86224		
263B	P26		1.96823	1.96825		
277	P26		1.86683	1.86685		
366	DIX5		1.86157	1.86155		
367	DIX5		1.86146	1.86147		
5066	Loop		1.86823	1.86823		
5065	Loop		1.86702	1.86702		
5064	Loop		1.86465	1.86468		
5063	Loop		1.86411	1.86414		
5062	Loop		1.86327	1.86324	1.86328	
349	P24		1.86147	1.86147		
414	HECS 8		1.83892	1.83893		
413	HECS 8		1.83878	1.83879		
404	HECS 7		1.84502	1.84505		
405	HECS 7		1.84512	1.84515		
396	HECS 6		1.84582	1.84584		
395	HECS 6		1.84588	1.84588		
388	HECS 5		1.83792	1.83793		
387	HECS 5		1.83772	1.83782	1.83783	
						Final Standby Value: _____

Notes: _____

316 Sal P24 2000 m 2019-001 Bot 5	317 Sal P24 1750 m 2019-001 Bot 6	316 Sal P24 2000 m 2019-001 Bot 5	318 Sal P24 1500 m 2019-001 Bot 7	311 Sal P25 5 m 2019-001 Bot 13	5059 SAL P25 LOOP 2019-001 Bot 1	263 Sal P26 1000 m 2019-001 Bot 9	277 Sal P26 5 m 2019-001 Bot 24
366 Sal DIX5 5 m 2019-001 Bot 16	367 Sal DIX5 0 m 2019-001 Bot 17	5066 SAL Loop LOOP 2019-00 Bot 1	5065 CHL LOOP LOOP 2019-001 Bot 1	5064 SAL LOOP LOOP 2019-001 Bot 1	5063 SAL LOOP LOOP 2019-001 Bot 1	5062 SAL LOOP LOOP 2019-001 Bot 1	349 Sal P24 5 m 2019-001 Bot 22
414 Sal HECS8 0 m 2019-001 Bot 9	413 Sal HECS8 5 m 2019-001 Bot 8	404 Sal HECS7 5 m 2019-001 Bot 8	405 Sal HECS7 0 m 2019-001 Bot 9	396 Sal HECS6 0 m 2019-001 Bot 8	395 Sal HECS6 5 m 2019-001 Bot 7	388 Sal HECS5 0 m 2019-001 Bot 8	387 Sal HECS5 5 m 2019-001 Bot 7

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2019-01</u>		Cast/Station Name: _____		Analysis Date (dd mmm yyyy): <u>22</u> <u>3</u> <u>19</u>	
Autosal Model: <u>8400 B</u>		Serial Number: <u>69086</u>			
Initial Standby Value: <u>24 + 6046</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)		Standardization Values:		Standard Info.	
Conductivity must be ± 0.00001 compared to Standard 		Before: _____		K ₁₅ VALUE: 0.999 <u>87</u>	
		After: _____		Batch #: <u>P 161</u>	
		Notes: _____		Batch Date: <u>MAY 3 / 20</u>	
				Bath Temperature: <u>24</u> °C	
				Sample Temperature: <u>22</u> °C	
				Room Temperature: <u>22</u> °C	
				Analyst: <u>H.M.</u>	

[illegible]

Notes: _____

462
Sal
CH2
5 m
2019-001
Bot 14

474
Sal
AB1
0 m
2019-001
Bot 11

448
Sal
CH3
0 m
2019-001
Bot 19

447
Sal
CH3
5 m
2019-001
Bot 18

432
Sal
CH3
450 m
2019-001
Bot 3

431
Sal
CH3
500 m
2019-001
Bot 2

429
Sal
EDR
0 m
2019-001
Bot 15

428
Sal
EDR
5 m
2019-001
Bot 14

505
Sal
CH6
5 m
2019-001
Bot 12

506
Sal
CH6
0 m
2019-001
Bot 13

476
Sal
CH1
500 m
2019-001
Bot 2

477
Sal
CH1
450 m
2019-001
Bot 3

478
Sal
CH1
400 m
2019-001
Bot 4

492
Sal
CH1
5 m
2019-001
Bot 18

493
Sal
CH1
0 m
2019-001
Bot 19

463
Sal
CH2
0 m
2019-001
Bot 15

549
Sal
CH13
0 m
2019-001
Bot 10

539
Sal
CH10
0 m
2019-001
Bot 7

531
Sal
CH11
5 m
2019-001
Bot 8

532
Sal
CH11
0 m
2019-001
Bot 9

523
Sal
CH4
0 m
2019-001
Bot 7

522
Sal
CH4
5 m
2019-001
Bot 6

516
Sal
CH5
0 m
2019-001
Bot 10

515
Sal
CH5
5 m
2019-001
Bot 9

AUTOSAL ANALYSIS LOGSHEET

AUTOSAL ANALYSIS LOGSHEET							
Cruise ID: <u>2019-01</u>		Cast/Station Name: _____		Analysis Date (dd mmm yyyy): <u>25 3 19</u>			
Autosal Model: <u>B400B</u>		Serial Number: <u>69086</u>					
Initial Standby Value: <u>2446045</u>		Ratio After Standardization: _____					
Cell Standardization (Daily)		Standardization Values:		Standard Info.		Bath Temperature: <u>24</u> °C	
Conductivity must be ± 0.00001 compared to Standard 		Before: _____		K ₁₅ VALUE: <u>0.999</u> <u>87</u>		Sample Temperature: <u>22</u> °C	
		After: _____		Batch #: <u>P161</u>		Room Temperature: <u>22</u> °C	
		Notes: _____		Batch Date: <u>MAY 3/20</u>		Analyst: <u>H.T.</u>	
		Sample		Station Name			

[illegible]

Notes:

618 Sal CH21 0 m 2019-001 Bot 9	609 Sal CH20 0 m 2019-001 Bot 10	599 Sal CHAT2A 0 m 2019-001 Bot 12	598 Sal CHAT2A 5 m 2019-001 Bot 11	587 Sal CH14 0 m 2019-001 Bot 9	578 Sal CH15 0 m 2019-001 Bot 12	566 Sal CH17 0 m 2019-001 Bot 7	559 Sal CH12 0 m 2019-001 Bot 10
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661 Sal CH22 0 m 2019-001 Bot 9	652 Sal CHAT1 0 m 2019-001 Bot 9	651 Sal CHAT1 5 m 2019-001 Bot 8	643 Sal CH23 0 m 2019-001 Bot 8	635 Sal PRHR74 0 m 2019-001 Bot 5	634 Sal PRHR74 5 m 2019-001 Bot 4	630 Sal CH18 0 m 2019-001 Bot 5	625 Sal CH19 0 m 2019-001 Bot 7
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707 Sal CH31 0 m 2019-001 Bot 8	706 Sal CH31 5 m 2019-001 Bot 7	699 Sal MP55 0 m 2019-001 Bot 8	691 Sal CH27 0 m 2019-001 Bot 6	684 Sal CH26 5 m 2019-001 Bot 6	685 Sal CH26 0 m 2019-001 Bot 7	678 Sal CH25 0 m 2019-001 Bot 9	669 Sal CH24 0 m 2019-001 Bot 8
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788
Sal
59
5 m
2019-00
Bot 11

776
Sal
42
5 m
2019-001
Bot 10

762
Sal
GEO1
5 m
2019-001
Bot 10

742
Sal
22
5 m
2019-001
Bot 10

5114
SAL
P10
LOOP
2019-001
Bot 1

726
Sal
OGCH46
0 m
2019-001
Bot 10

~~726~~
709
Sal
OGCH50
5 m
2019-001
Bot 11