

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2018-034</u>	Cast/Station Name: <u>Various</u>	Analysis Date (dd mmm yyyy): <u>14 Sep. 2018</u>
Autosal Model: <u>840013</u>	Serial Number: <u>68572</u>	
Initial Standby Value: _____	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: <u>6.49</u>	K ₁₅ VALUE: 0.999 <u>83</u>
	After: <u>6.49</u>	Batch #: <u>P160</u>
	Notes: <u>Cal completed yesterday</u>	Exp Batch Date: <u>19 July 2019</u>
		Bath Temperature: <u>24</u> °C
		Sample Temperature: <u>22.1</u> °C
		Room Temperature: <u>22.1</u> °C
		Analyst: <u>KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
5037	loop 37		1.86095	1.86100	1.86094	- Deleted reading 2
102	LB14	4	1.95408	1.95408		
101	"	3	1.96194	1.96194		
100B	"	2	1.96842	1.96843		
100A	"	2	1.96841	1.96842		- screw cap was loose
59	LB08	10	1.87879	1.87880		
25	LB01	4	1.82479	1.82478		
120	LC11	2	1.97286	1.97287		
121A	"	3	1.96794	1.96793		
121B	"	3	1.96795	1.96793		
122	"	4	1.96194	1.96195		
123	"	5	1.95357	1.95355		
137	"	19	1.85530	1.85528		
166	LC08	11	1.84085	1.84085		
192	LC02	7	1.81763	1.81762		
5062	loop 62		1.82041	1.82042		
5067	loop 67		1.81384	1.81385		
235	LG06	2	1.96255	1.96256		
250	"	17	1.84580	1.84579		
252A	LG09	1	1.97950	1.97954		
252B	"	1	1.97947	1.97946		
253A	"	2	1.97556	1.97557		
253B	"	2	1.97558	1.97559		
DWR			1.98249	1.98243		
						Final Standby Value: _____

Notes: _____

5037 LOOP SAL 37 2018-34	102 Sal LB14 500 m 2018-034 Bot 4	101 Sal LB14 750 m 2018-034 Bot 3	100 Sal LB14 1000 m 2018-034 Bot 2	100 Sal LB14 1000 m 2018-034 Bot 2	59 Sal LB08 5 m 2018-034 Bot 10	25 Sal LB01 5 m 2018-034 Bot 4	120 Sal LC11 1250 m 2018-034 Bot 2	121A Sal LC11 1000 m 2018-034 Bot 3	121B Sal LC11 1000 m 2018-034 Bot 3
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122 Sal LC11 750 m 2018-034 Bot 4	123 Sal LC11 500 m 2018-034 Bot 5	137 Sal LC11 5 m 2018-034 Bot 19	166 Sal LC08 5 m 2018-034 Bot 11	192 Sal LC02 5 m 2018-034 Bot 7	5062 LOOP 62 2018-34 SAL	2018-34 SAL LOOP 5067	235 Sal LG06 750 m 2018-034 Bot 2	250 Sal LG06 5 m 2018-034 Bot 17	252 A Sal LG09 2005 m 2018-034 Bot 1
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252 B Sal LG09 2005 m 2018-034 Bot 1	253 A Sal LG09 1500 m 2018-034 Bot 2	253 B Sal LG09 1500 m 2018-034 Bot 2
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$$K_{15} \times 2 = 1.99974$$

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Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2018-034</u>	Cast/Station Name: <u>Various</u>	Analysis Date (dd mmm yyyy): <u>17 Sept. 2018</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>2476097</u>	Ratio After Standardization: <u>2476099</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: <u>6.49</u> After: <u>6.50</u>	K ₁₅ VALUE: 0.999 <u>87</u> Batch #: <u>P161</u> Exp. Batch Date: <u>3 May 2020</u>
Notes: <u>small adjustment</u>		Bath Temperature: <u>24</u> °C Sample Temperature: <u>23.3</u> °C Room Temperature: <u>23.3</u> °C Analyst: <u>KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
P161	IAPSO std	Calibration	1.99975			- Accepted
P161			1.99976	1.99975		- Ran as sample
DWR			1.98254	1.98255		L) stated = 34.995
DWR			1.98258	1.98257		→ measured = 34.9950
DWR			1.98253	1.98253		
333	CS00	13	1.91987	1.91987		→ DWR 1.98252 1.98253
334	"	14	1.88314	1.88315		
335	"	15	1.87269	1.87268		
336	"	16	1.86733	1.86734		
337	"	17	1.84781	1.84782		
338	"	18	1.84648	1.84652		
339	"	19	1.84656	1.84654		- Screw cap was loose
340	"	20	1.84659	1.84658		- Insert not sealed.
343	CS02	2	1.97445	1.97445		
344	"	3	1.97167	1.97166		
345A	"	4	1.96790	1.96792		
345B	"	4	1.96787	1.96787		
361	"	20	1.84516	1.84516		
379	CS06	7	1.85774	1.85773		
404	JS	10	1.81543	1.81542		
5151	Loop		1.80904	1.80905		
455	GE01	12	1.68290	1.68291		- Insert leaking when inverting sample.
469	42	10	1.61872	1.61873		
DWR			1.98252	1.98251		
254A	LG09	3	1.96899	1.96898		Final Standby Value:
254B	"	3	1.96897	1.96898		

Notes: _____

333
Sal
CS00
125 m
2018-034
Bot 13

334
Sal
CS00
100 m
2018-034
Bot 14

335
Sal
CS00
75 m
2018-034
Bot 15

336
Sal
CS00
50 m
2018-034
Bot 16

337
Sal
CS00
30 m
2018-034
Bot 17

338
Sal
CS00
20 m
2018-034
Bot 18

339
Sal
CS00
10 m
2018-034
Bot 19

340
Sal
CS00
5 m
2018-034
Bot 20

343
Sal
CS02
1500 m
2018-034
Bot 2

344
Sal
CS02
1250 m
2018-034
Bot 3

345 A
Sal
CS02
1000 m
2018-034
Bot 4

345 B
Sal
CS02
1000 m
2018-034
Bot 4

361
Sal
CS02
5 m
2018-034
Bot 20

379
Sal
CS06
5 m
2018-034
Bot 7

404
Sal
JS
~~1000 m~~
2018-034
Bot 10
5 m

SISI
LOOP 151
SAL
2018-034
Event
151

455
Sal
GEO1
5 m
2018-034
Bot 12

469
Sal
42
5 m
2018-034
Bot 10

254 A
Sal
LG09
1000 m
2018-034
Bot 3

254 B
Sal
LG09
1000 m
2018-034
Bot 3

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2018-034</u>	Cast/Station Name: <u>Various</u>	Analysis Date (dd mmm yyyy): <u>17 Sept. 2018</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68872</u>	
Initial Standby Value: <u>24.6099</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: _____ After: _____ Notes: _____	K ₁₅ VALUE: <u>0.999</u> Batch #: _____ Batch Date: _____
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>22.8</u> °C Room Temperature: <u>22.8</u> °C Analyst: <u>KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
5084	Loop		1.86015	1.86015		
5085	Loop		1.86879	1.86880		
269A	LBP7	1	1.97984	1.97983		
269B	"	1	1.97511	1.97512		- looks like a mis-sample
270A	"	2	1.97513	1.97515		
270B	"	2	1.97513	1.97514		
271B	"	3	1.97229	1.97228		
271A	"	3	1.97228	1.97229		
272	"	4	1.96805	1.96804		
273	"	5	1.96270	1.96270		
274	"	6	1.95494	1.95493		
275	"	7	1.95244	1.95244		
276	"	8	1.94881	1.94879		
277	"	9	1.94665	1.94664		- leaky insert when inverting sample
278	"	10	1.94553	1.94552		
279	"	11	1.94458	1.94458		
280	"	12	1.94318	1.94317		
281	"	13	1.93751	1.93751		
282	"	14	1.92397	1.92395		
283	"	15	1.90068	1.90067		
284	"	16	1.87604	1.87605		
285	"	17	1.86762	1.86762		
DWR			1.98251	1.98252		
286	"	18	1.85802	1.85800		
287	"	19	1.84811	1.84811		Final Standby Value:
288	"	20	1.84793	1.84794		

Notes: _____

5084

SAL

2018-34

Loop 84

Loop 5085

SAL

2018-34

Loop

5085

269A

Sal

LBP07

2000 m

2018-034

Bot 1

269B

Sal

LBP07

2000 m

2018-034

Bot 1

270A

Sal

LBP07

1500 m

2018-034

Bot 2

270B

Sal

LBP07

1500 m

2018-034

Bot 2

271B

Sal

LBP07

1250 m

2018-034

Bot 3

271A

Sal

LBP07

1250 m

2018-034

Bot 3

272

Sal

LBP07

1000 m

2018-034

Bot 4

273

Sal

LBP07

750 m

2018-034

Bot 5

274

Sal

LBP07

500 m

2018-034

Bot 6

275

Sal

LBP07

400 m

2018-034

Bot 7

276

Sal

LBP07

300 m

2018-034

Bot 8

277

Sal

LBP07

250 m

2018-034

Bot 9

278

Sal

LBP07

200 m

2018-034

Bot 10

279

Sal

LBP07

175 m

2018-034

Bot 11

280

Sal

LBP07

150 m

2018-034

Bot 12

281

Sal

LBP07

125 m

2018-034

Bot 13

282

Sal

LBP07

100 m

2018-034

Bot 14

283

Sal

LBP07

75 m

2018-034

Bot 15

284

Sal

LBP07

50 m

2018-034

Bot 16

285

Sal

LBP07

30 m

2018-034

Bot 17

286

Sal

LBP07

20 m

2018-034

Bot 18

287

Sal

LBP07

10 m

2018-034

Bot 19

288

Sal

LBP07

5 m

2018-034

Bot 20

