

AUTOSAL ANALYSIS LOGSHEET

10am

Cruise ID: <u>SWL 2013-05</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>12 12 2013</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+5959</u>	Ratio After Standardization: <u>no change</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>24+5959</u> After: <u>24+5959</u> Notes: <u>Rs = 5.20</u>	K ₁₅ VALUE: <u>0.99979</u> Batch #: <u>P153</u> Batch Date: <u>Mar. 8/14</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>22.5</u> °C Room Temperature: <u>21.3</u> °C Analyst: <u>MS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1	Slip -1		183899	183899		48
5			183901	183900		
* 5			183906	183905		
6			183894	183894		
7			183227	183227		
8			182583	182582		
9			180831	180831		leaks
10			178891	178890		
11	Slip -2		183832	183833		48
12			183835	183836		
* 12			183828	183827		
13			183817	183817		
14			183164	183164		
15			182358	182360		
16			180122	180122		
17			179026	179026		
18	Slip -3		184522	184522		48
19			184418	184418		
* 19			184438	184438		S-R
20			183756	183757		
21			183445	183450	183455	leak
22			182276	182277		
23			179918	179919		
24	Slip -5		185609	185909		48
						Final Standby Value:
						<u>5960</u> <u>10:50am</u>

Notes: _____

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Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

10:55am

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>SWL-201305</u>	Cast/Station Name: <u>50/0</u>	Analysis Date (dd mmm yyyy): <u>12 12 2013</u>
Autosal Model: _____	Serial Number: _____	
Initial Standby Value: <u>5960</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>50/0</u>	K ₁₅ VALUE: <u>0.999</u>
	After: _____	Batch #: _____
	Notes: _____	Batch Date: _____
		Bath Temperature: <u>24</u> °C
		Sample Temperature: <u>22.0</u> °C
		Room Temperature: <u>21.5</u> °C
		Analyst: <u>MS.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
25	Slip-5		1.85508	1.85510		
26			1.84929	1.84930		
* 26			1.84909	1.84909		
27			1.84035	1.84034		
28			1.81168	1.81168		
29			1.79423	1.79423		
30	Slip-4		1.86969	1.86971		
33			1.86375	1.86376		
36			1.85489	1.85489		
* 36			1.85495	1.85497		
39			1.84796	1.84797		
42			1.80714	1.80715		
45			1.80506	1.80507		
49	Bcl-6a		1.85914	1.85915		
50			1.85788	1.85784	1.85786	
* 50			1.85788	1.85788		
51			1.84469	1.84468		
52			1.83035	1.83035		
53			1.82956	1.82956		
54			1.87027	1.87029		
55			1.87039	1.87041		
* 55			1.87038	1.87039		
56			1.87027	1.87027		
57			1.87005	1.87005		leak
58			1.87005	1.87003		
						Final Standby Value: <u>5960</u>

Notes: _____

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Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

11:55 am

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>SWL-2013-05</u>		Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>12 12 2013</u>
Autosal Model: _____		Serial Number: <u>68572</u>	
Initial Standby Value: <u>5960</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>	Sample Temperature: <u>22.1</u> °C
	After: _____	Batch #: _____	Room Temperature: <u>21.5</u> °C
	Notes: _____	Batch Date: _____	Analyst: <u>MS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
59	U+bs-4		1.87165	1.87166		48
60			1.87162	1.87164		
61			1.87167	1.87167		
* 61			1.87169	1.87168		
62			1.87188	1.87188		
63			1.87189	1.87190		
64	U+bs-1		1.86803	1.86804		48
67			1.86784	1.86782		
70			1.86096	1.86098		
* 70			1.86091	1.86092		
73			1.85987	1.85985		
76			1.85979	1.85983	1.85983	
80	U+bs-2		1.86017	1.86016		48
81			1.86014	1.86016		
* 81			1.86011	1.86010		
82			1.86020	1.86021		
83			1.86033	1.86035		
84			1.86027	1.86028		
85	Brs-3		1.84820	1.84816	1.84817	48
86			1.84820	1.84821		
* 86			1.84800	1.84800		
87			1.84807	1.84807		
88			1.84802	1.84803		
89			1.84781	1.84782		
						Final Standby Value: <u>5960</u>

Notes: _____

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Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

12:50 pm

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>SWL 2013-05</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>12 12 2013</u>
Autosal Model: _____	Serial Number: _____	
Initial Standby Value: <u>5960</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: _____ After: <u>Same</u> Notes: _____	K ₁₅ VALUE: <u>0.999</u> Batch #: _____ Batch Date: _____
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>21.5</u> °C Room Temperature: <u>22.1</u> °C Analyst: <u>MS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
94	Brs-5		1.85481	1.85480		4 5
95			1.85499	1.85499		
* 95			1.85501	1.85499		
96			1.85481	1.85481		
97			1.85455	1.85456		
98			1.85418	1.85419		
99	Utn-1		1.84360	1.84361		4 5
100			1.84368	1.84368		
* 100			1.84365	1.84367		
101			1.84265	1.84270	1.84274	
102			1.84096	1.84097		
103	Utn-2		1.85279	1.85282		4 5
104			1.85302	1.85303		
105			1.85354	1.85355		
* 105			1.85289	1.85289		
106			1.85237	1.85238		
1:30 2pm 107			1.85216	1.85215		
108	Utn-3		1.87356	1.87359	1.87359	4 5
109			1.87346	1.87346		
* 109			1.87379	1.87382	1.87380	
110			1.87345	1.87346		
111			1.87345	1.87346		
112			1.87396	1.87397		
113	Utn-4		1.87046	1.87049	1.87045	4 5
						Final Standby Value: <u>5960</u>

Notes: _____

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Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

2:10 pm

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>SWL-2013-05</u>		Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>12 12 2013</u>
Autosal Model: _____		Serial Number: _____	
Initial Standby Value: <u>5960</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: <u>Same</u>	K ₁₅ VALUE: <u>0.999</u>	Sample Temperature: <u>22.0</u> °C
	After: _____	Batch #: _____	Room Temperature: <u>22.1</u> °C
	Notes: _____	Batch Date: _____	Analyst: <u>MS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
116	11n-4		1.87042	1.87044		
119			1.86937	1.86937		
* 119			1.86953	1.86954		
122			1.86853	1.86853		
125			1.86381	1.86382		
129	Sec-1		1.86454	1.86455		45
130			1.86463	1.86465		
131			1.86281	1.86281		
132			1.86164	1.86165		
133			1.86073	1.86074		
134	11n-6		1.86157	1.86157		45
135			1.86161	1.86162		
* 135			1.86160	1.86159		
230. 136			1.86318	1.86320		
3:05 pm 137			1.86464	1.86464		
138			1.86392	1.86394		
139	Sec-2		1.86638	1.86639		45
140			1.86594	1.86595		leak
* 140			1.86509	1.86512	1.86510	
141			1.86424	1.86427		
142			1.86403	1.86404		
143			1.86355	1.86357		
144	Sec-8		1.80131	1.80131		45
145			1.80159	1.80161		
						Final Standby Value:

Notes: _____

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Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

3:25 pm

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>SWL 2013-05</u>		Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>12 12 2013</u>
Autosal Model: _____		Serial Number: _____	
Initial Standby Value: <u>5960</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: <u>same</u>	K ₁₅ VALUE: <u>0.999</u>	Sample Temperature: <u>21.5</u> °C
	After: _____	Batch #: _____	Room Temperature: <u>21.9</u> °C
	Notes: _____	Batch Date: _____	Analyst: <u>MS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
146	Sec-8		1.79791	1.79793		
147	↓		1.74916	1.74917		
148	Sec-7		1.82202	1.82203		4 f
149	↓		1.82166	1.82166		
150	↓		1.82147	1.82146		
* 150	↓		1.82145	1.82146		
151	↓		1.82352	1.82354		
152	↓		1.82382	1.82384		leak.
153	Sec-6		1.83851	1.83853		4 f
154	↓		1.83883	1.83884		
* 154	↓		1.83896	1.83897		
155	↓		1.83285	1.83285		
156	↓		1.83689	1.83690		
157	↓		1.83612	1.83613		
158	Sec-5		1.84129	1.84129		4 f
159	↓		1.84095	1.84097		
* 159	↓		1.84084	1.84086		
160	↓		1.84138	1.84139		
161	↓		1.84594	1.84596		
162	↓		1.84296	1.84297		
163	Sec-4		1.85624	1.85626		4 f
164	↓		1.85761	1.85766	1.85767	
165	↓		1.85623	1.85624		
166	↓		1.84194	1.84196		
167	↓		1.84037	1.84038		Final Standby Value: <u>5960</u>

Notes: _____

4:15 pm

Cruise ID: <u>SWL 2013-05</u>		Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>12</u> <u>12</u> <u>2013</u>	
Autosal Model: <u>8400B</u>		Serial Number: _____		
Initial Standby Value: <u>5960</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: <u>same</u>	K ₁₅ VALUE: <u>0.999</u>	Sample Temperature: <u>21.5</u> °C	
	After: _____	Batch #: _____	Room Temperature: <u>21.7</u> °C	
	Notes: _____	Batch Date: _____	Analyst: <u>MS</u>	

[illegible]

Notes: 5 ppm

AUTOSAL ANALYSIS LOGSHEET

10:45 am

Cruise ID: <u>SWL-2013-05</u>		Cast/Station Name: _____		Analysis Date (dd mmm yyyy): <u>13</u> <u>12</u> <u>2013</u>	
Autosal Model: <u>8400B</u>		Serial Number: <u>68572</u>			
Initial Standby Value: <u>24+5960</u>		Ratio After Standardization: <u>Calibrate</u>		<u>24+5960</u>	
Cell Standardization (Daily)		Standardization Values:		Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before: <u>5960</u>	K ₁₅ VALUE: <u>0.99979</u>		Bath Temperature: <u>24</u> °C	
	After: <u>5960</u>	Batch #: <u>P153</u>		Sample Temperature: <u>22.4</u> °C	
	Notes: <u>Rs = 5.20</u>	Batch Date: <u>Mar 8/14</u>		Room Temperature: <u>22.0</u> °C	
				Analyst: <u>MS</u>	

[illegible]

Notes: _____

(9)

Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

11:25 am

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>SWL-2013-05</u>		Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>13 12 2014</u>
Autosal Model: _____		Serial Number: _____	
Initial Standby Value: <u>5960</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: <u>5960</u>	K ₁₅ VALUE: <u>0.999</u>	Sample Temperature: <u>22.7</u> °C
	After: _____	Batch #: _____	Room Temperature: <u>22.1</u> °C
	Notes: _____	Batch Date: _____	Analyst: <u>MS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
248	Barc-5		1.88727	1.88728		4 S
249			1.88615	1.88613		
250			1.88524	1.88524		S-R
251			1.88120	1.88121		
252			1.85835	1.85835		
255		8	1.82155	1.82155		
258		11	1.76929	1.76929		
261		14	1.70891	1.70890		
265	Barc-4	1	1.87674	1.87673		4 S
266		2	1.87686	1.87686		
267		3	1.87643	1.87641		
* 267		3	1.87670	1.87670		
268		4	1.86746	1.86747		
269		5	1.84981	1.84980		
270		6	1.83861	1.83863		
271		7	1.82839	1.82839		
272		8	1.70048	1.70049		S-R
273	Barc-3	1	1.86226	1.86228		4 S
274		2	1.86296	1.86295		S-R
275		3	1.86220	1.86221		
276			1.86143	1.86144		
277			1.86169	1.86169		
278			1.86134	1.86135		
279			1.85380	1.85381		
280			1.65041	1.65040	S-R	Final Standby Value: 5960

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>SWL-2013-05</u>		Cast/Station Name: _____		Analysis Date (dd mmm yyyy): <u>13</u> <u>12</u> <u>2013</u>	
Autosal Model: _____		Serial Number: _____			
Initial Standby Value: <u>5960</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)		Standardization Values:		Standard Info.	
Conductivity must be ± 0.00001 compared to Standard 	Before: _____		K ₁₅ VALUE: <u>0.999</u>		Bath Temperature: <u>24</u> °C
	After: _____		Batch #: _____		Sample Temperature: <u>22.5</u> °C
	Notes: _____		Batch Date: _____		Room Temperature: <u>22.3</u> °C
				Analyst: <u>MS</u>	

[illegible]

Notes: 12:30 pm