

SWL

AUTOSAL ANALYSIS LOGSHEET

9:50

Cruise ID: <u>2014-12</u>		Cast/Station Name: _____		Analysis Date (dd mmm yyyy): <u>06 01 2015</u>	
Autosal Model: <u>8400B</u>		Serial Number: <u>69086</u>			
Initial Standby Value: <u>24+6054</u>		Ratio After Standardization ^{calibrate} : <u>24+6054</u>			
Cell Standardization (Daily)	Standardization Values:	Standard Info.		Bath Temperature: <u>24</u> °C	
Conductivity must be ± 0.00001 compared to Standard	Before: <u>24+6054</u> Rs: 5.54	K ₁₅ VALUE: <u>0.99984</u>		Sample Temperature: <u>21.5</u> °C	
	Notes: _____	Batch #: <u>P156</u>		Room Temperature: <u>21.7</u> °C	
		Batch Date: <u>July 23/16</u>		Analyst: <u>MS</u>	

Sample	Station Name	Depth /Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1	Slip-1	1	1.83302	1.83309	1.83308	45.
4		4	1.83297	1.83297		
* 4		4	1.83291	1.83290		
5		5	1.82669	1.82669		
6		6	1.81953	1.81953		leaking
7		7	1.81237	1.81237		
8		8	1.81093	1.81093		
9	Slip-2	1	1.83401	1.83402		48 leaking
10		2	1.83401	1.83400		
11		3	1.83376	1.83375		
* 11		3	1.83386	1.83389		
12		4	1.82413	1.82410		
13		5	1.81529	1.81530		
14		6	1.81325	1.81329		
15		7	1.81236	1.81236		
16	Slip-3	1	1.83983	1.83984		48
17		2	1.83850	1.83846	1.83848	
18		3	1.82894	1.82893		
19		4	1.82344	1.82345		
20		5	1.81258	1.81260		
21		6	1.81240	1.81240		
22	Slip-5	1	1.85208	1.85206		45
23		2	1.83953	1.83955		
23		2	1.83950	1.83951		
						Final Standby Value: <u>6053</u>

Notes: 24 22.8 °C @ 10:36 am

(2)

Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

SWL

AUTOSAL ANALYSIS LOGSHEET

10:50 am

Cruise ID: <u>2014-12</u>		Cast/Station Name: _____		Analysis Date (dd mmm yyyy): <u>06 01 2015</u>	
Autosal Model: _____		Serial Number: <u>69086</u>			
Initial Standby Value: <u>6053</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: _____ After: <u>Same</u> Notes: _____	K ₁₅ VALUE: <u>0.999</u> Batch #: <u>Same</u> Batch Date: _____		Sample Temperature: <u>21.2</u> °C Room Temperature: <u>22.8</u> °C Analyst: <u>M.S.</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
24	Slip-5	3	1.83139	1.83139		
25		4	1.82756	1.82756		
26		5	1.81793	1.81791		
27		6	1.81442	1.81446		
28	Slip-4	1	1.87001	1.87001		45
31		4	1.86736	1.86736		
34		7	1.85055	1.85055		
37		10	1.83793	1.83792		
40		13	1.82696	1.82696		
43		16	1.82677	1.82677		
46	BCI-6a	1	1.87098	1.87098		45
47		2	1.86855	1.86856		
* 47		2	1.86855	1.86852		
48		3	1.84146	1.84149		
49		4	1.83419	1.83419		
50		5	1.79491	1.79490		
51	UTBS-5	1	1.88000	1.88004		45
52		2	1.87959	1.87959		
53		3	1.88007	1.88007		
54		4	1.88205	1.88206		
55		5	1.87943	1.87946		
56	UTBS-2	1	1.88228	1.88230		45
57		2	1.88207	1.88206		
* 57		2	1.88276	1.88276	?	
Final Standby Value:						<u>6052</u>

Notes: (24)

AUTOSAL ANALYSIS LOGSHEET

11:50 am

Cruise ID: _____	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): 06 01 2015
Autosal Model: _____	Serial Number: _____	
Initial Standby Value: 6052	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: _____ After: _____ Notes: _____	K ₁₅ VALUE: 0.999 Batch #: _____ Batch Date: _____
		Bath Temperature: 24 °C Sample Temperature: 21.8 °C Room Temperature: 23.1 °C Analyst: MS

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
90	UTN-2	1	1.87502	1.87500		45
91		2	1.87527	1.87526		
91		2	1.87523	1.87523		leaking
92		3	1.87345	1.87346		
93		4	1.87214	1.87215		
94		5	1.87175	1.87174		
95	UTN-3	1	1.87430	1.87427		45
96		2	1.87403	1.87401		
97		3	1.86841	1.86841		leaking
98		4	1.86121	1.86121		
99		5	1.85770	1.85779	1.85777	leaking
100	UTN-4	1	1.86999	1.86998		45
103		4	1.86885	1.86882		leak
103		4	1.86882	1.86884	1.86883	
106		7	1.86196	1.86200	1.86199	
109		10	1.85168	1.85174		leaking
112		13	1.84699	1.84695		leaks
115	UTN-6	1	1.86802	1.86803		45
116		2	1.86626	1.86630	1.86633	
117		3	1.86348	1.86349		
118		4	1.86154	1.86156		
119		5	1.84347	1.84351		
120	SEC-8	1	1.79152	1.79151		45
121		2	1.79080	1.79079		
						Final Standby Value: 6052

Notes: 24	12:45 pm
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SWL

AUTOSAL ANALYSIS LOGSHEET

12:50 pm

Cruise ID: <u>2014-12</u>		Cast/Station Name: _____		Analysis Date (dd mmm yyyy): <u>06 01 2015</u>			
Autosal Model: <u>8400B</u>		Serial Number: <u>69086</u>					
Initial Standby Value: <u>6052</u>		Ratio After Standardization: _____					
Cell Standardization (Daily) Conductivity must be ± 0.00001 compared to Standard		Standardization Values: Before: _____ After: _____ Notes: _____		Standard Info. K ₁₅ VALUE: <u>0.999</u> Batch #: _____ Batch Date: _____		Bath Temperature: <u>24</u> °C Sample Temperature: <u>21.9</u> °C Room Temperature: <u>23.4</u> °C Analyst: <u>MS</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
58	UTBS-2.	3	1.88229	1.88228		48 leaks
59	↓	4	1.87941	1.87941		leaks
60	↓	5	1.81894	1.81894		
61	UTBS-4.	1	1.88115	1.88116		48
62	↓	2	1.88076	1.88078		
63	↓	3	1.88055	1.88063	1.88056	
64	↓	4	1.87937	1.87937		
65	↓	5	1.87934	1.87929		
66	UTBS-1.	1	1.88435	1.88430	1.88432	48 jumpy
69	↓	2	1.88452	1.88453		
69	↓	2	1.88456	1.88456		
72	↓	7	1.88391	1.88390		jumpy
75	↓	10	1.87523	1.87522		
78	↓	13	1.84873	1.84873	1.84870	leaks
81	BRS-3.	1	1.86060	1.86060		48
82	↓	2	1.85774	1.85775		
83	↓	3	1.85423	1.85423		
84	↓	4	1.85338	1.85339		
85	↓	5	1.82896	1.82894		leaking
86	UTN-1.	1	1.84725	1.84724		48
87	↓	2	1.84722	1.84723		leaking
88	↓	3	1.84704	1.84702		
89	↓	4	1.84489	1.84490		
						Final Standby Value:
						6052.

Notes:

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1:45 pm

Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

SWL

AUTOSAL ANALYSIS LOGSHEET

1:45 pm

Cruise ID: <u>2014-12</u>		Cast/Station Name: _____		Analysis Date (dd mmm yyyy): <u>06 01 2015</u>	
Autosal Model: <u>8400B</u>		Serial Number: <u>69086</u>			
Initial Standby Value: <u>6052</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: _____ After: _____ Notes: _____	K ₁₅ VALUE: <u>0.999</u> Batch #: _____ Batch Date: _____		Sample Temperature: <u>22.4</u> °C Room Temperature: <u>23.7</u> °C Analyst: <u>MS</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
122	SEC-8	3	1.77839	1.77833	1.77832	4f
123	↓	5	1.77507	1.77500	1.77502	8
125	SEC-7	1	1.80650	1.80650		48
126	↓	2	1.80717	1.80732	1.80731	
126	↓	2	1.80653	1.80664	1.80660	
127	↓	3	1.80724	1.80723		closer to #126
128	↓	4	1.80354	1.80353		
129	↓	5	1.79411	1.79412		leaks
130	SEC-6	1	1.82195	1.82195		45
131	↓	2	1.82157	1.82158		Jumpy
131	↓	2	1.82145	1.82148		
132	↓	3	1.82074	1.82075		leaks
133	↓	4	1.81224	1.81225		
134	↓	5	1.81205	1.81204		
135	SEC-5	1	1.82980	1.82980		45 leaks
138	↓	4	1.82500	1.82494		
141	↓	7	1.82342	1.82343		
144	↓	10	1.81977	1.81979		
147	↓	13	1.81932	1.81933		
150	SEC-4	1	1.85270	1.85274		45
151	↓	2	1.85253	1.85254		
151	↓	2	1.85251	1.85251		
152	↓	3	1.84908	1.84909		leaks
153	↓	4	1.83320	1.83320		
						Final Standby Value: <u>6052</u>

Notes: (24) 3:05 pm

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Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

SWL

AUTOSAL ANALYSIS LOGSHEET

3:10 pm

Cruise ID: <u>2014-12</u>		Cast/Station Name: _____		Analysis Date (dd mmm yyyy):	
Autosal Model: _____		Serial Number: <u>69086</u>		<u>06 01 2014</u>	
Initial Standby Value: <u>6052</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>	
		After: _____		Batch #: _____	
		Notes: _____		Batch Date: _____	
				Bath Temperature: <u>24</u> °C	
				Sample Temperature: <u>21.9</u> °C	
				Room Temperature: <u>23.8</u> °C	
				Analyst: <u>MS</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
154	SEC-4	5	1.83031	1.83029		
155	SEC-3	1	1.86993	1.86993		48
156	↓	2	1.86763	1.86761		
157	↓	3	1.86146	1.86147		leaks
158	↓	4	1.84561	1.84560		
159	↓	5	1.84521	1.84519		
160	SEC-2	1	1.87527	1.87529		48
161	↓	2	1.87279	1.87282		leaks
* 161	↓	2	1.87314	1.87314		leaks
162	↓	3	1.87163	1.87165		leaks
163	↓	4	1.86493	1.86493		leaks
164	↓	5	1.86454	1.86454		
165	SEC-1	1	1.88154	1.88154		48
168	↓	4	1.88288	1.88298	1.88291	
169	↓	5	1.87615	1.87615		
170	↓	6	1.87234	1.87234		
171	↓	7	1.87053	1.87053		leaks
172	UNT-7	1	1.87694	1.87698		48
173	↓	2	1.87866	1.87874	1.87872	
174	↓	3	1.87544	1.87544		
175	↓	4	1.87270	1.87267		
176	↓	5	1.85469	1.85474	1.85470	
177	↓	6	1.85108	1.85107		
178	DBO-4.1	1	1.84990	1.84990		48
						Final Standby Value:
						<u>6052</u>

Notes: (24) 4:10 pm Lab: 23.8°C
all ran very smooth!

AUTOSAL ANALYSIS LOGSHEET

9:45 am

Cruise ID: 2014-12 Cast/Station Name: _____ Analysis Date (dd|mmm|yyyy): 07|01|2015

Autosal Model: 8400B Serial Number: 69086

Initial Standby Value: 6054 Ratio After Standardization: 6054 no adjustments

Cell Standardization (Daily)	Standardization Values:	Standard Info.	Bath Temperature:
Conductivity must be ± 0.00001 compared to Standard	Before: <u>6054</u> After: <u>RS 5.54</u> Notes: _____	K ₁₅ VALUE: <u>0.999 84</u> Batch #: <u>P156</u> Batch Date: <u>July 23, 2015</u>	<u>24</u> °C
			Sample Temperature: <u>21.9</u> °C
			Room Temperature: <u>22.0</u> °C
			Analyst: <u>MS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
179	DBO-4.1	2	1.85314	1.85315		48
* 179		2	1.85313	1.85311		
180		3	1.85270	1.85272		
181		4	1.82560	1.82559		
182		5	1.62731	1.62732		leaking
183	DBO-4.2	1	1.86294	1.86294		45
184		2	1.86390	1.86391		
185		3	1.85509	1.85510		
186		4	1.81582	1.81574	1.81580	
187		5	1.71857	1.71859		leaks
188	DBO-4.3	1	1.86910	1.86910		45
191		4	1.87463	1.87464		leaking
* 191		4	1.87462	1.87462		leaking
194		7	1.87462	1.87464		leaking
197		10	1.83763	1.83764		
200		13	1.74847	1.74848		
203	DBO-4.4	1	1.88043	1.88045		45
204		2	1.87989	1.87990		
205		3	1.86847	1.86847		leaks
206		4	1.85640	1.85640		
207		5	1.75382	1.75381		leaks
208	DBO-4.5	1	1.88074	1.88078	1.88078	45
209		2	1.88103	1.88105		
* 209		2	1.88083	1.88082		
						Final Standby Value: <u>6052</u>

Notes: (24) 10:30 pm Lab 22.8 °C

AUTOSAL ANALYSIS LOGSHEET

18:50am

Cruise ID: 2014-12 Cast/Station Name: _____ Analysis Date (dd | mmm | yyyy): 07 | 01 | 2015

Autosal Model: 8400B Serial Number: 169086

Initial Standby Value: 6053 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: _____ After: <u>Spec</u> Notes: _____	K ₁₅ VALUE: <u>0.999</u> Batch #: <u>Spec</u> Batch Date: _____	Sample Temperature: <u>21.5</u> °C Room Temperature: <u>22.6</u> °C Analyst: <u>MS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
210	DBO-4.5	3	1.86806	1.86805		18
211		4	1.85420	1.85420		
212		5	1.75409	1.75409		leaks
213	DBO-4.6	1	1.87647	1.87649		45
214		2	1.87658	1.87652	1.87657	leaks
215		3	1.86508	1.86511	1.86510	
216		4	1.85241	1.85247	1.85245	
217		5	1.75251	1.75250		
218	BarC-3	1	1.83003	1.83005		45
219		2	1.82722	1.82722		leaks
* 219		2	1.82746	1.82745		
220		3	1.82254	1.82254		
221		4	1.81524	1.81524		
222		5	1.79015	1.79015		
223		6	1.80331	1.80330		
224		7	1.68013	1.68015		
225	BarC-4	1	1.84537	1.84539		45 leaks
226		2	1.84587	1.84587		
227		3	1.84473	1.84469		
* 227		3	1.84500	1.84500		
228		4	1.83970	1.83972		
229		5	1.83868	1.83868		
230		6	1.83938	1.83941		
231		7	1.82665	1.82665		
						Final Standby Value: <u>6052</u>

Notes: (24) 11:40am Lab 23.1

Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

11:45 on

Cruise ID: <u>2014-12</u>		Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>07 01 2015</u>
Autosal Model: <u>8400B</u>		Serial Number: <u>69086.</u>	
Initial Standby Value: <u>6052</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>21.6</u> °C
	After: _____	Batch #: _____	Room Temperature: <u>23.0</u> °C
	Notes: _____	Batch Date: _____	Analyst: <u>MS</u>

[illegible]

Notes: (22) ~~#7~~ 12:30 pm Lab 23.5