Water Properties Group — Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: 2016-17	Cast/Station Name: SWL.	Analysis Date (dd | mmm | yyyy): 01 | 12 | 2016
Autosal Model: 8400B	Serial Number:	
Initial Standby Value: 24 6092.	Ratio After Standardization: 24 6092	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard →	Before: 6092	K_{15} VALUE: 0.999 70	Bath Temperature: 24 °C
	After: 6092	Batch #: P158	Sample Temperature: 22.5 °C
	Notes: good ! !	Batch Date: March 25/18	Room Temperature: 23.5 °C
			Analyst: MaryStead

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1	NP - 1	1	1.96885	1.96884		forgot to click "NO" for extra
2		2.	1.96333	1.96334		these 2 samples are combined.
* 2		2.	1.96315	1.96315		
3		3	1.95579	1.95579		
4		4	1.94781	1.9478)		
5		5	1.94507	1.94511	1.945 19	
6		6	1.94403	1.94403.		
7		7	1.94450	1.94450		leak-L
8		8	1.94372	1.94373.		
9		9	1.94229	1.94244	1.94244	
* 9		9.	1.94044	1.94044		
10		10	1.93633	1.93633		
11		11	1.92616	1.92621	1.92626.	jumping.
12		12	1.90616.	1.90616		
14		14	1.87870	1.87870		
16.		16	1.86854	1.86859		L.
18		18	1.86005	1.86005		L
20		20	1.83067	1.83066		
22	↓	22	1.83135	1.83134		
25	NP-2	1	1.97000	1.97002		
26		2	1.96264	1.96263		
27		3	1.95550	1.95550		
* 27		3	1.95484	1.95482		L
28	↓	4	1.94854	1.94854		
						Final Standby Value:

Notes: 3 flushes/sample 4 flushes @ new station sample.

Water Properties Group Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

2:30pm

Cruise ID:	Cast/Station Name: SWL 2016-17	Analysis Date (dd | mmm | yyyy): 01 | 12 | 2016.
Autosal Model:	Serial Number: 68572	
Initial Standby Value: 6092.	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.999 same as	Bath Temperature: 24 °C
	After: same as	Batch #: same as	Sample Temperature: 22.5 °C
	Notes:	Batch Date:	Room Temperature: 23.6 °C
			Analyst: MaryStod.

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
29	NP-2	5	1.94496	1.94497		
30		6	1.94335	1.94335		
31		7	1.94091	1.94091		
32		8	1.93764	1.93764		
33.		9	1.93176	1.93177		
*33		9	1.93179	1.93179		L
34		10	1.91199	1.91198		L
35		11	1.89511	1.89510		
36.		12	1.86717	1.86718		
37		13	1.84408	1.84409		
38.		14	1.83369	1.83370		
39		15	1.81955	1.81955		
40.		16	1.81927	1.81928		
41	↓	17	1.81945	1.81944		
42	NP-3	1	1.96691	1.96691.		45.
43		2	1.96039	1.96040		L
44		3	1.95251	1.95252.		
45.		4	1.94357	1.94355		
*45		4	1.94377	1.94378		L
46		5	1.94164	1.94164		
47		6	1.94056.	1.94056.		L
48		7	1.94031.	1.94030		
49		8	1.93706.	1.93706		
*49	↓	8	1.93824.	1.93824		
						Final Standby Value:

Notes: 3 flushes / sample.

Water Properties Group — Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

3:25 pm

Cruise ID: 2016-17.	Cast/Station Name: SWL 2016-17.	Analysis Date (dd | mmm | yyyy): 01 | 12 | 2016.
Autosal Model: 8400B.	Serial Number: 68572.	
Initial Standby Value: 6092	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.999	Bath Temperature: 24 °C
	After:	Batch #:	Sample Temperature: 22.5 °C
	Notes:	Batch Date:	Room Temperature: 23.1 °C
			Analyst: Mary Steel

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
50	NP-3.	9	1.93360	1.93359		
51		10	1.91996	1.91997		
52		11	1.88545	1.88546		
53		12	1.87351	1.87353		
54		13	1.86939	1.86938		
55		14	1.86453	1.86453		
56		15	1.85673	1.85673		
57		16	1.85679	1.85679		
58	↓	17.	1.85672	1.85673		
59	NP-4	1	1.96665	1.96665		4 f
*59		1	1.96727	1.96727		
60		2	1.96025	1.96023		
61		3	1.94533	1.94934		L
62		4	1.94241	1.94242		
63		5	1.94113	1.94112		
*63		5	1.94079	1.94080		
64		6	1.94080	1.94081		
65		7	1.93937	1.93936		
66		8	1.93698	1.93698		
67		9	1.92608	1.92619	1.92620	jumpy
68		10	1.89732	1.89732		
69		11	1.87783	1.87782		L
70		12	1.86974	1.86975		
71	↓	13	1.86507	1.86506		
						Final Standby Value: 6092

Notes: Zero: 0.00003

Water Properties Group — Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

10:15am

Cruise ID: 2016-17.	Cast/Station Name: SWL.	Analysis Date (dd | mmm | yyyy): 02 | 12 | 2016.
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 6092	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard →	Before: 1.99949	K_{15} VALUE: 0.999 70	Bath Temperature: 24. °C
	After:	Batch #: P158	Sample Temperature: 22.7 °C
	Notes:	Batch Date: March25,2018	Room Temperature: 23.1 °C
			Analyst: Mary Steel.

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
72	NP-4	14	1.86182	1.86183		
73		15	1.85866	1.85867		
74		16	1.85689	1.85690.		
75.	↓	17	1.85691	1.85690		
76	NP-5	1	1.96713	1.96715		4f.
77	"	2	1.96149	1.96151		
*77		2	1.96144	1.96144		
78		3	1.95280	1.95280.		
79		4	1.94516	1.94516.		
80.		5	1.94335	1.94333		L.
81		6	1.94039	1.94039		
82		7	1.93980	1.93978		L.
83		8	1.93940	1.93940		L
84		9	1.93770.	1.93771		
85		10	1.92673.	1.92673.		
*85		10	1.92591	1.92590		
86		11	1.89722	1.89721.		
87		12	1.87658	1.87658.		
89		14	1.86754	1.86756.		
90		15	1.86933	1.86934		
92		17	1.86771	1.86773		
94		19	1.85834	1.85834		
97	↓	22	1.85712	1.85712		
100	NP-6	1	1.96753	1.96753		4f.
						Final Standby Value:

Notes: 3 flushes / sample. # 4 flushes at new Station sample - 2 readings

Water Properties Group — Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

11:10 am

Cruise ID: 2016-17	~~Cast/Station~~ Name: SWL	Analysis Date (dd | mmm | yyyy): 02 | 12 | 2016
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 6092	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.999 70	Bath Temperature: 24 °C
	After:	Batch #: P158	Sample Temperature: 22.6 °C
	Notes:	Batch Date: March 25, 2018	Room Temperature: 23.9 °C
			Analyst: Mary Stead

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
101	NP-6	2	1.96224	1.96224		
102		3	1.95398	1.95399		
*102		3	1.95399	1.95399		
103		4	1.94621	1.94622		
104		5	1.94159	1.94159		
105		6	1.94053	1.94053		
106		7	1.93856	1.93856		
107		8	1.93876	1.93876		
*107		8	1.93874	1.93874		
108		9	1.93692	1.93693		
109		10	1.92450	1.92450		
110		11	1.89037	1.89038		
111		12	1.88094	1.88092		
112		13	1.88042	1.88042		
113		14	1.87810	1.87812		
114		15	1.86845	1.86845		
115		16	1.86764	1.86764		
116	↓	17	1.86756	1.86758		
117	NP-7	1	1.97810	1.97810		4f
118		2	1.97714	1.97714		
*118		2	1.97712	1.97713		
119		3	1.97483	1.97483		
120		4	1.97230	1.97230		
121	↓	5	1.96866	1.96867		
						Final Standby Value:

Notes:

Water Properties Group — Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

12:08 pm

Cruise ID: 2016-17	~~Cast/Station~~ Name: SWL	Analysis Date (dd | mmm | yyyy): 02 | 12 | 2016
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 60 92	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.999 70	Bath Temperature: 24 °C
	After:	Batch #: P158	Sample Temperature: 22.6 °C
	Notes:	Batch Date: March 25/2018	Room Temperature: 23.9 °C
			Analyst: Mary Steel

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
122	NP-7	6	1.96418	1.96419		
123		7	1.95549	1.95548		
124		8	1.94894	1.94893		
*124		8	1.94893	1.94893		
125		9	1.94220	1.94221		
126		10	1.94029	1.94029		
127		11	1.93873	1.93874		
128		12	1.93681	1.93682		
129		13	1.93550	1.93551		
130		14	1.93112	1.93110		
131		15	1.92011	1.92010		
132		16	1.88704	1.88704		
133		17	1.88168	1.88169		
134		18	1.88090	1.88091		
135		19	1.87782	1.87783		
136		20	1.87728	1.87730		
137	↓	21	1.87629	1.87630		
138	NP-8	1	1.96922	1.96923		4f
139		2	1.96451	1.96452		
139		2	1.96450	1.96452		
140		3	1.95743	1.95741		
141		4	1.95067	1.95069		
142		5	1.94455	1.94454		
143	↓	6	1.94286	1.94285		
						Final Standby Value:

Notes:

Water Properties Group Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

1205pm

Cruise ID: 2016-17	~~Cast/Station~~ Name: SWL 2016-17	Analysis Date (dd | mmm | yyyy): 02 | 12 | 2016
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 6092	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard →	Before:	K_{15} VALUE: 0.999 70	Bath Temperature: 24 °C
	After:	Batch #: P158	Sample Temperature: 22.9 °C
	Notes:	Batch Date: March 25, 2016	Room Temperature: 24.01 °C
			Analyst: Mary Steel

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
144	NP-8	7	1.94116	1.94117		
145		8	1.93910	1.93911		
146		9	1.93490	1.93490		
147		10	1.92320	1.92320		
148		11	1.90289	1.90291		
149		12	1.88422	1.88424		
150		13	1.88205	1.88204		
*150		13	1.88205	1.88207		
151		14	1.88061	1.88060		
152		15	1.87894	1.87896		
153		16	1.87818	1.87819		
154	↓	17	1.87801	1.87801		
155	NP-9	1	1.97105	1.97104		4 f
*155		1	1.9103	1.97104		
156		2	1.96728	1.96729		
157		3	1.96127	1.96129		
158		4	1.95589	1.95588		
159		5	1.95098	1.95099		
160		6	1.94920	1.94919		
161		7	1.94770	1.94769		
162		8	1.94607	1.94606		
163		9	1.94418	1.94419		
164		10	1.94111	1.94112		
*164	↓	10	1.94140	1.94139		- ??
						Final Standby Value:

Notes:

(5)

Water Properties Group — Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

2:00pm Lunch

Cruise ID: 2016-17	~~Cast/Station~~ Name: SWL	Analysis Date (dd | mmm | yyyy): 02 | 12 | 2016
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 6093	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.99970	Bath Temperature: 24 °C
	After:	Batch #: P158	Sample Temperature: 23.46 °C
	Notes:	Batch Date: same	Room Temperature: 23.60 °C
			Analyst: MaryStead

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
165	NP-9	1	1.93360	1.93360		
167		13	1.90456	1.90457		
169		15	1.88368	1.88368		
170		16	1.88236	1.88237		
171		17	1.88126	1.88128		
173		19	1.87967	1.87968		
175		21	1.87939	1.87939		
179	NP-10	1	1.97019	1.97020		4f
180		2	1.96696	1.96699		
181		3	1.96653	1.96652		?? / not
*181		3	1.96025	1.96028		?? / dups
182		4	1.95497	1.95496		
183		5	1.94981	1.94982		
184		6	1.94847	1.94848		
185		7	1.94696	1.94696		
186		8				no sample water
187		9	1.94299	1.94298		
188		10	1.94079	1.94081		
*188		10	1.93996	1.93996		
189		11	1.93240	1.93241		
190		12	1.90504	1.90504		
191		13	1.88399	1.88398		
192		14	1.88241	1.88242		
193		15	1.87823	1.87825		
						Final Standby Value: 6093

Notes: Zero: 0.00003

Water Properties Group Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: 2016-17	Cast/Station Name: SWL	Analysis Date (dd | mmm | yyyy): 06 | 12 | 2016
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 6092	Ratio After Standardization:	1:55pm

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard →	Before: same After: good Notes:	K_{15} VALUE: 0.999 70 Batch #: P158 Batch Date: March 25, 2018	Bath Temperature: 24 °C Sample Temperature: 22.57 °C Room Temperature: 22.8 °C Analyst: Mary Stel

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
194	NP-10	16	1.87536	1.87536		4 flushes.
195	↓	17	1.87527	1.87526		
196	NP-11	1	1.96904	1.96904		4f very jumpy.
197		2	1.96468	1.96466		
*197		2	1.96453	1.96453		
198		3	1.95764	1.95766		
199		4	1.95175	1.95176		
200		5	1.94614	1.94612		
201		6	1.94486	1.94485		
202		7	1.94341	1.94340		
203		8	1.94120	1.94121		
204		9	1.93486	1.93485		very jumpy.
*204	↓	9	1.93507	1.93512	1.93509	jumpy
205		10	1.92425	1.92423		
206		11	1.90642	1.90642		leaking
208		13	1.88854	1.88856		
210		15	1.88079	1.88080		
211		16	1.87640	1.87641	1.87640	
212		17	1.87567	1.87566		
215		20	1.86164	1.86163		
217	↓	22	1.86007	1.86009		
230	NP-12	11	1.87140	1.87140		4f. very jumpy!!
231		12	1.87096	1.87098		
232	↓	13	1.86240	1.86241		changed noodle to stat once
						Final Standby Value: 6091

Notes:

Water Properties Group Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

2:40 pm

Cruise ID: 2016-17	~~Cast/Station~~ Name: SWL	Analysis Date (dd | mmm | yyyy): 06 | 12 | 2016
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 60992	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard →	Before:	K_{15} VALUE: 0.999 Sw2	Bath Temperature: 24 °C
	After: Sw1	Batch #: Sw2	Sample Temperature: 22.6 °C
	Notes:	Batch Date:	Room Temperature: 22.5 °C
			Analyst: Mary Stal

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
233	NP-12	14	1.85922	1.85920		
234		15	1.84850	1.84848		
235		16	1.82134	1.82134		
236		17	1.82017	1.820122	1.82017	
240	SLIP-1	4	1.84179	1.84178		4 S
*240		4	1.84150	1.84152		
242		6	1.83983	1.83984		
244		8	1.82382	1.82384		
246		10	1.80421	1.80422		
248		12	1.77511	1.77513		
250		14	1.76681	1.76682		
251	SLIP-2	1	1.84475	1.84474		4 S
252		2	1.84178	1.84179		
253		3	1.84020	1.84021		
254		4	1.82883	1.82884		
255		5	1.80954	1.80952		
256		6	1.77592	1.77591		
257		7	1.76588	1.76589		
258	SLIP-3	1	1.84117	1.84116		4 S
*258		P	1.84120	1.84121		
260		3	1.83630	1.83631		
262		5	1.82283	1.82283		
264		7	1.80804	1.80804		
266		9	1.77319	1.77319		
						Final Standby Value:

Notes:

Water Properties Group Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

335 pm

Cruise ID: 2016-17	~~Cast/Station Name~~: SWL	Analysis Date (dd | mmm | yyyy): 06 | 12 | 2016
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 6092	Ratio After Standardization:	3:35 pm

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.999 same	Bath Temperature: 24 °C
	After: same	Batch #: same	Sample Temperature: 22.04 °C
	Notes:	Batch Date:	Room Temperature: 22.55 °C
			Analyst: Mary Steel

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
266	SLIP-3	11	1.77015	1.77016		outside
271	SLIP-5	2	1.84354	1.84354		4f of
273	↓	4	1.84282	1.84283		the
275		6	1.83800	1.83801		leaking. bottles
* 275		6	1.83798	1.83799		cleans
277		8	1.81521	1.81522		
279		10	1.79486	1.79488		
281	↓	12	1.78772	1.78772		
283	SLIP-4	2	1.87006	1.87006		4f
287	↓	6	1.86937	1.86939		
291		10	1.85432	1.85432		
295		14	1.84634	1.84636		
299		18	1.83774	1.83773		
303	↓	22	1.83627	1.83629		
307	BCL-6A	2	1.86477	1.86478		4f
* 307	↓	2	1.86493	1.86493		
309		4	1.86407	1.86407		
311		6	1.86107	1.86107		
313		8	1.80529	1.80530		
315	↓	10	1.77734	1.77736		
316	BCL-6C	1	1.88398	1.88398		4f
317	↓	2	1.88379	1.88379		
318		3	1.88300	1.88301		
319	↓	14	1.88288	1.88287		
						Final Standby Value:

Notes:

Water Properties Group — Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

4:30 pm

Cruise ID: 2016-17	~~Cast/Station~~ Name: SWL	Analysis Date (dd | mmm | yyyy): 06 | 12 | 2016
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 6092	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.999	Bath Temperature: 24 °C
	After:	Batch #:	Sample Temperature: 22.1 °C
	Notes:	Batch Date:	Room Temperature: 22.75 °C
			Analyst: Mary Stal

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
320	BCL-6C	5	1.88330	1.88330		
322	UTBS-5	2	1.87399	1.87399		leaking.
324		4	1.87042	1.87040		leaking.
326		6	1.86853	1.86854		leaking.
*326		6	1.86879	1.86879		
328		8	1.86719	1.86720		
330		10	1.86616	1.86615		
331	UTBS-2	1	1.85751	1.85754		
333		3	1.85848	1.85848		
334		4	1.85838	1.85838		
335		5	1.85817	1.85820		
336		6	1.84900	1.84902		leaking
337	UTBS-2A	1	1.84476	1.84477		leaking
338		2	1.84356	1.84355		
338		2	1.84349	1.84347		
339		3	1.83662	1.83662		
340		4	1.82612	1.82613		
341	DB02.7	1	1.84600	1.84601		leaking
342		2	1.84392	1.84392		
343		3	1.83860	1.83860		
344		4	1.83578	1.83579		
345		5	1.83320	1.83320		
						zero: 0.00002
						Final Standby Value: 5:30pm 6092

Notes:

Water Properties Group — Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: 2016-17	Cast/Station Name:	Analysis Date (dd | mmm | yyyy): 07 | 12 | 2016
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 6092	Ratio After Standardization: adj ratio: -0.000003	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard →	Before: good	K_{15} VALUE: 0.999 70	Bath Temperature: 24 °C
	After: -0.000003	Batch #: P158	Sample Temperature: 22.51 °C
	Notes: adj. ratio	Batch Date: March 25, 2018	Room Temperature: 22.58 °C
			Analyst: MaryStead

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
347	UBS-1	2	1.85740	1.85740		4f
351		6	1.85700	1.85701		
355		10	1.85625	1.85626		
359		14	1.85539	1.85538		
363	↓	18	1.84448	1.84447		
366	UBS-4	1	1.88435	1.88436		4f
367	↓	2	1.88357	1.88358		
367		2	1.88325	1.88326		
368		3	1.88150	1.88150		
369		4	1.88010	1.88009		
370	↓	5	1.87616	1.87618		
371	BRS-2	1	1.83937	1.83938		4f
372	↓	2	1.83922	1.83921		
373		3	1.83933	1.83934		
374		4	1.83884	1.83885		
375	↓	5	1.83605	1.83606		
377	BRS-3	2	1.84896	1.84895		4f
377	↓	2	1.84907	1.84909		
379		4	1.84886	1.84888		
381		6	1.84622	1.84623		
383		8	1.84398	1.84399		
385	↓	10	1.84161	1.84169	1.84169	
386	BRS-4	1	1.84868	1.84869		
387	↓	2	1.84888	1.84889		
						Final Standby Value: 6092

Notes: _____

(2)

Water Properties Group — Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

12:47pm

Cruise ID:	Cast/Station Name:	Analysis Date (dd | mmm | yyyy): 07 | 12 | 2016.
Autosal Model: 8400B	Serial Number: 68572.	
Initial Standby Value: 6092	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard →	Before:	K_{15} VALUE: 0.999	Bath Temperature: 24 °C
	After:	Batch #:	Sample Temperature: 21.29 °C
	Notes:	Batch Date:	Room Temperature: 22.60 °C
			Analyst: MaySteel

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
388	BRS-4	3	1.84847	1.84849		Bottles look
389	↓	4	1.84825	1.84824		like they were
390	↓	5	1.84826	1.84828		wiped clean.
391	UNT-1	1	1.84474	1.84473		4f. Smear
392	↓	2	1.84459	1.84459		marks.
393	↓	3	1.83970	1.83971		
394	↓	4	1.83906	1.83098		
*394	↓	4.	1.83907	1.83906		
396	UNT-2	2	1.85735	1.85735		4f.
398	↓	4	1.85744	1.85746		
400	↓	6	1.85537	1.85538		
402	↓	8	1.85486	1.85487		
404	↓	10	1.85498	1.85498		
405	UNT-3	1	1.86770	1.86771		4f
406	↓	2	1.86760	1.86762		
*406	↓	2	1.86768	1.86769		
407	↓	3	1.86731	1.86732		
408	↓	4	1.86510	1.86511		21.46°C
409	↓	5	1.86200	1.86202		
411	UNT-4	2	1.87501	1.87503		
415	↓	6	1.87586	1.87585		
419	↓	10	1.87707	1.87709		
423	↓	14	1.87427	1.87428		
427	↓	18	1.87180	1.87186	1.87185	
						Final Standby Value: 6091

Notes: _____

Water Properties Group — Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

1:47 pm.

Cruise ID: 2016-17	Cast/Station Name: SWL	Analysis Date (dd | mmm | yyyy): 07 | 12 | 2016
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 6091	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.99970	Bath Temperature: 24. °C
	After:	Batch #:	Sample Temperature: 21.85 °C
	Notes:	Batch Date:	Room Temperature: 22.08 °C
			Analyst: Mary Steel.

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
430	SEC-8	1	1.78955	1.78962	1.78957	4f
431		2	1.79452	1.79455		
432		3	1.76212	1.76213		
433		4	1.72596	1.72595		
435	SEC-7	2	1.82335	1.82336		4f
* 435		2	1.82267	1.82268		
437		4	1.82778	1.82779		
439		6	1.81726	1.81725		
441		8	1.80869	1.80870	70	
443		10	1.80005	1.80003		
444	SEC-6	1	1.83557	1.83559		4f
445		2	1.83598	1.83596		
446		3	1.83216	1.83215		
447		4	1.83232	1.83232		
448		5	1.83641	1.83641		
450	SEC-5	2	1.84100	1.84101		4f
452		4	1.84027	1.84026		
454		6	1.83689	1.83689		
* 454		6	1.83687	1.83689		
456		8	1.84020	1.84022		
458		10	1.83799	1.83801		
459	SEC-4	1	1.84929	1.84929		4f
460		2	1.84983	1.84984		
461		3	1.84923	1.84924		
						Final Standby Value: 6091 - 6092.

Notes:

Water Properties Group — Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

2:58 pm.

Cruise ID: 2016-17	Cast/Station Name: SWL	Analysis Date (dd | mmm | yyyy): 07 | 12 | 2016
Autosal Model:	Serial Number: 68572	
Initial Standby Value: 6091-6092	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.99970	Bath Temperature: 24 °C
	After:	Batch #:	Sample Temperature: 21.60 °C
	Notes:	Batch Date:	Room Temperature: 22.09 °C
			Analyst: MaryStead

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
462	SEC-4	4	1.84769	1.84771		
463	↓	5	1.84517	1.84516		
465	SEC-3	2	1.87801	1.87800		4f.
467	|	4	1.87755	1.87754		
469	|	6	1.87609	1.87610		
471	|	8	1.87601	1.87602		
*471	|	8	1.87590	1.87593	94	
473	↓	10	1.78586	1.78586		
475	ONT-6	2	1.88045	1.88049	48	4f.
477	|	4	1.87927	1.87929		
479	|	6	1.87988	1.87989		
481	|	8	1.87934	1.87935		
483	↓	10	1.81855	1.81855		
485	SEC-2	2	1.87956	1.87955		4f
486	|	3	1.87920	1.87918	20	
487	|	4	1.87951	1.87952		
488	|	5	1.87864	1.87866		
489	|	6	1.79345	1.79346		
*489	↓	6	1.79335	1.79336		
491	SEC-1	2	1.88029	1.88029		4f.
493	|	4	1.88082	1.88082		
495	|	6	1.87898	1.87897		
497	|	8	1.87793	1.87794		
499	↓	10	1.82718	1.82719		
						Final Standby Value: 6092

Notes:

(5)

Water Properties Group — Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

3:52 pm

Cruise ID: 2016-17	~~Cast/Station~~ Name: SWL.	Analysis Date (dd | mmm | yyyy): 07 | 12 | 2016
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 6092	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.999	Bath Temperature: 24 °C
	After:	Batch #:	Sample Temperature: 21.18 °C
	Notes:	Batch Date:	Room Temperature: 22.67 °C
			Analyst: Mary Steel

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
500	UNT-7	1	1.88516	1.88514		4S
501		2	1.88512	1.88513		leaks
502		3	1.88510	1.88511		leaks
* 502		3	1.88489	1.88487		
503		4	1.88516	1.88516		
504		5	1.88441	1.88441		leaks
505		6	1.80413	1.80412		
507	DBO-4.1	2	1.86277	1.86277		4S Lab. (21.624°C)
509		4	1.86519	1.86520		
511		6	1.86505	1.86505		
513		8	1.81080	1.81080		
515		10	1.71275	1.71278		
516	DBO-4.2	1	1.85555	1.85553		4S 16:30 pm 21.64°C
519		4	1.85770	1.85770		
522		7	1.82121	1.82121		
525		10	1.80337	1.80335		
528		13	1.62938	1.62937		
533	DBO-4.3	2	1.85453	1.85459	55	4S
* 533		2	1.85559	1.85566	67	leaking
535		4	1.85925	1.85926		
537		6	1.82967	1.82967		
539		8	1.78818	1.78819		
541		10	1.65218	1.65219		
542	DBO-4.6	1	1.84862	1.84861		4S
						Final Standby Value:

Notes:

Water Properties Group — Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

5:00pm

Cruise ID: 2016-17 / 2016-13	Cast/Station Name: SWL	Analysis Date (dd | mmm | yyyy): 07 | 12 | 2016
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 6092.	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.999	Bath Temperature: 24. °C
	After:	Batch #:	Sample Temperature: 21.5 °C
	Notes:	Batch Date:	Room Temperature: 21.89 °C
			Analyst: MaryStead.

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
543	DBO-4.6	2	1.84554	1.84555		
544		3	1.82093	1.82093		
545		4	1.72564	1.72564		
546		5	1.58567	1.58567		
LOOP	July 3	LOOP 16	1.82184	1.82184	4 Swabs	
	July 5	" 23	1.86462	1.86460		
2016-17	July 6	" 36	1.87779	1.87775		
	July 7	" 43	1.87379	1.87380		
	July 12	" 68	1.76600	1.76601		
	July 14	" 72	1.86985	1.86984		
	July 17	" 81	1.78244	1.78249	47.	
	July 18	" 87	1.47310	1.47308		
	2016-13	Humfrey Melling.				
LOOP	1		1.80908	1.80908	4 Swabs	
"	2		1.81009	1.81009		
"	1-3		1.90411	1.90411		
"	2-3		1.90791	1.90789		
"	3-3		1.90409	1.90408		

Loop 10 SALT 2016-17 3 Jul 2016 SWL

Loop 23 SAL 2016-17 SWL 5 Jul 2016

Loop 36 SAL 2016-17 SWL 6 Jul 2016

Loop 43 SAL 2016-17 7 July 2016 (on station)

Loop 68 SAL 2016-17 SWL 12 Jul 2016

Loop 72 Salt 2016-17 SWL 14 Jul 16

Loop 81 SALT 2016-17 SWL 17 July 2016

Loop 87 SALT 2016-17 SWL 18 Jul 2016

IOS 2016-13 TSG Sample 1 PDT 10 Oct/16 14:46

IOS 2016-13 Sample 2 TSG 13 Oct/16 0932h PDT

2016-13-0036 Bottle 6 160m 1 of 3

2016-13-0036 Bottle 6 160m 2 of 3

2016-13-0036 Bottle 6 160m 3 of 3

Zero: -0.00002

Final Standby Value: 6091 5:35pm

Notes: