

SWL

Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

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AUTOSAL ANALYSIS LOGSHEET

Arctic Autosal

9:30 am

Cruise ID: <u>2018-63</u>	Cast/Station Name: <u>SWL CRUISE</u>	Analysis Date (dd mmm yyyy):
Autosal Model: <u>8400B</u>	Serial Number: <u>69086</u>	<u>21 01 2019</u>
Initial Standby Value: <u>24+6056</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>1.99971</u> After: <u>1.99974</u> Notes: <u>0.000000</u>	K ₁₅ VALUE: 0.999 <u>87</u> Batch #: <u>P161</u> Batch Date: <u>May 3, 2020</u>
<u>5.26</u>		Bath Temperature: <u>24</u> °C Sample Temperature: <u>21.8</u> °C Room Temperature: <u>22.0</u> °C Analyst: <u>Mary Steel</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
25	CSJ-1	1	1.95128	1.95129		4 flushes
25		1	1.95128	1.95128		
26		2	1.94694	1.94695		
27		3	1.94267	1.94267		
28		4	1.87312	1.87312		
30		6	1.85576	1.85576		
41		17	1.85219	1.85220		
43		19	1.85130	1.85131		
45		21	1.85049	1.85049		
47		23	1.85021	1.85021		
50	SLIP-1	2	1.86279	1.86281		4 f.
53		5	1.85857	1.85858		
54		6	1.85801	1.85800		
54		6	1.85792	1.85793		
56		8	1.85387	1.85388		
58		10	1.84625	1.84626		
60		12	1.84520	1.84520		
65	SLIP-2	2	1.86632	1.86634		4 f.
67		4	1.86624	1.86624		
69		6	1.85944	1.85943		
71		8	1.85794	1.85794		
71		8	1.85807	1.85811	1.85811	
73		10	1.85279	1.85279		
75		12	1.85523	1.85524		
						Final Standby Value: _____

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

10:15

Cruise ID: <u>2018-63</u>	Cast/Station Name: <u>SWL CRUISE</u>	Analysis Date (dd mmm yyyy):
Autosal Model: <u>8400B</u>	Serial Number: <u>69086 - Arctic Autosal</u>	<u>21 01 2019</u>
Initial Standby Value: <u>24+6056</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: 0.999 Batch #: <u>Same</u> Batch Date: _____
		Bath Temperature: <u>24</u> °C Sample Temperature: _____ °C Room Temperature: <u>22.0</u> °C Analyst: <u>Mary Steep</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
77	SLIP-2	14	1.84556	1.84556		
82	SLIP-3	2	1.84354	1.84355		4f.
84		4	1.84350	1.84351		
86		6	1.84096	1.84098	1.84099	
88		8	1.83711	1.83712		
88		8	1.83712	1.83711		
90		10	1.83644	1.83645		
92		12	1.83650	1.83649		
97	SLIP-5	2	1.83678	1.83678		4f.
99		4	1.83686	1.83687		
101		6	1.83269	1.83269		
103		8	1.82626	1.82625		
105		10	1.82598	1.82598		
107		12	1.82607	1.82607		
107		12	1.82602	1.82603		
111	SLIP-4	2	1.83392	1.83392		4f.
113		4	1.83403	1.83402		
113		4	1.83402	1.83405	1.83404	
115		6	1.82983	1.82984		
117		8	1.82566	1.82566		
119		10	1.82494	1.82493		
121		12	1.82691	1.82692		
132	BCL-6a	1	1.88328	1.88328		4f.
134	1	3	1.88242	1.88241		
						Final Standby Value: 6056

Notes:	<u>DWR 928 - 1.99778 1.99778</u>	<u>5x flush</u>
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AUTOSAL ANALYSIS LOGSHEET

11:08

Cruise ID: <u>2018-63</u>	Cast/Station Name: <u>SWL CRUISE</u>	Analysis Date (dd mmm yyyy): <u>21 01 2019</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>69086 Arctic Autosal</u>	
Initial Standby Value: _____	Ratio After Standardization: _____	
Cell Standardization (Daily) Conductivity must be ± 0.00001 compared to Standard 	Standardization Values: Before: _____ After: <u>Same</u> Notes: _____	Standard Info. K ₁₅ VALUE: 0.999 <u>2</u> Batch #: _____ Batch Date: _____
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>21.6</u> °C Room Temperature: <u>21.7</u> °C Analyst: <u>May Steel</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
136	BCL-6a		1.88114	1.88115		4 flushes
138			1.87938	1.87942	1.87940	
140			1.87145	1.87145		
140			1.87152	1.87152		
144	BCL-6c		1.89143	1.89142		4 f
144			1.89145	1.89144		
146			1.89140	1.89140		
148			1.89122	1.89121		
150			1.89098	1.89099		
152			1.89117	1.89119		
155	UTBS-5	1	1.89311	1.89311		4 f
157		3	1.89307	1.89308		
159		5	1.89300	1.89301		
161		7	1.89261	1.89262		
163		9	1.89256	1.89256		
166	UTBS-2	1	1.88163	1.88164		4 f
168		3	1.88168	1.881670		
170		5	1.88140	1.88142		
172		7	1.88071	1.88072		
174		9	1.88077	1.88079		
177	UTBS-2a	1	1.84830	1.84829		4 f
179		3	1.84599	1.84599		
181		5	1.82103	1.82104		
183		7	1.80171	1.80170		
						Final Standby Value: _____

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

1655

Cruise ID: <u>2018-63</u>	Cast/Station Name: <u>SWL CRUISE</u>	Analysis Date (dd mmm yyyy): <u>21 01 2019</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>69086 Arctic Autosol</u>	
Initial Standby Value: <u>6056</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>21.6</u> °C Room Temperature: <u>21.7</u> °C Analyst: _____

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
186	DB02.7	1	1.85853	1.85852		4 flush
188		3	1.85839	1.85841		
190		5	1.85780	1.85788	1.85788	
192		7	1.82283	1.82284		
194		9	1.81999	1.82000		
194		9	1.81988	1.81988		
* 186	UTBS-1	1	1.88450	1.88455	1.88454	sample # repeated
* 188		3	1.88426	1.88433	1.88431	added a
* 188		3	1.88435	1.88438	1.88438	# one - 1
* 190		5	1.88425	1.88424		
* 192		7	1.88491	1.88490		
* 194		9	1.88517	1.88515		
217	UTBS-4	1	1.89284	1.89286		4 f
219		3	1.89254	1.89255		
221		5	1.89218	1.89217		
223		7	1.89163	1.89168	1.89169	
225		9	1.89176	1.89175		
228	BRS-2	1	1.80589	1.80591		4 f
230		3	1.77907	1.77907		
232		5	1.76549	1.76549		
234		7	1.75969	1.75968		
236		9	1.72938	1.72947	1.72945	
239	BRS-3	1	1.81780	1.81782		
241		3	1.82100	1.82102		
						Final Standby Value:
						6056

Notes: <u>DWR928</u>	<u>1.99778</u>	<u>1.99780</u>	<u>6 flushes</u>
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AUTOSAL ANALYSIS LOGSHEET

5

110 pm
12:50 pm

Cruise ID: <u>2018-63</u>	Cast/Station Name: <u>SWL</u>	Analysis Date (dd mmm yyyy): <u>21 01 2019</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>69086 ArcticAutosal</u>	
Initial Standby Value: <u>6056</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
	After: <u>Same</u>	Batch #: <u>Same</u>
	Notes: _____	Batch Date: _____
		Bath Temperature: <u>24</u> °C
		Sample Temperature: <u>22.0</u> °C
		Room Temperature: <u>21.7</u> °C
		Analyst: <u>Mary Steel</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
243	BRS-3	5	1.81885	1.81889	1.81890	4 flushes
245		7	1.78805	1.78804		
247		9	1.77846	1.77847		
250	BRS-4	1	1.84066	1.84066		4 flush
252		3	1.83076	1.83074		
254		5	1.82935	1.82935		
254		5	1.82930	1.82938	1.82933	
256		7	1.79669	1.79670		
258		9	1.77770	1.77770		
262	UTN-1	2	1.81894	1.81892		
264		4	1.81508	1.81508		
266		6	1.81429	1.81430		
268		8	1.79335	1.79348	1.79342	Jumpy
272	UTN-2	2	1.85119	1.85119		48
274		4	1.85235	1.85238		Jumpy
276		6	1.85230	1.85230		
278		8	1.81937	1.81939		
278		8	1.81930	1.81931		
280		10	1.79976	1.79977		
284	UTN-3	2	1.87850	1.87855	1.87856	
286		4	1.87793	1.87795		
288		6	1.87684	1.87684		
290		8	1.86119	1.86119		
292		10	1.80275	1.80277		
						Final Standby Value:

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

2:05 pm

Cruise ID: <u>2018-63</u>	Cast/Station Name: <u>SWL CRUISE</u>	Analysis Date (dd mmm yyyy): <u>21 01 2019</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>69086</u>	
Initial Standby Value: <u>6056</u>	Ratio After Standardization: _____	
Cell Standardization (Daily) Conductivity must be ± 0.00001 compared to Standard	Standardization Values: Before: _____ After: <u>Same</u> Notes: _____	Standard Info. K ₁₅ VALUE: 0.999 Batch #: <u>Same</u> Batch Date: _____
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>21.9</u> °C Room Temperature: <u>21.7</u> °C Analyst: <u>Mary Steel</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
296	UTN-4	2	1.86517	1.86517		4f.
298		4	1.85940	1.85941		
300		6	1.85335	1.85335		
302		8	1.85273	1.85274		
304		10	1.85255	1.85259	1.85270	Jumpy ??
304		10	1.85249	1.85255	1.85259	Jumpy ??
316	SEC-8	1	1.78770	1.78770		4f.
318		3	1.78703	1.78705		
320		5	1.78000	1.78001		
322		7	1.72351	1.72351		
325	SEC-7	1	1.82186	1.82186		4f.
327		3	1.82155	1.82156		
329		5	1.80881	1.80882		
331		7	1.79225	1.79225		
331		7	1.79235	1.79237		
333		9	1.77642	1.77644		
336	SEC-6	1	1.83000	1.83001		4f.
338		3	1.82859	1.82860		
340		5	1.82781	1.82779		
342		7	1.82148	1.82148		
344		9	1.78303	1.78303		
347	SEC-5	1	1.83696	1.83696		4f.
347		1	1.83669	1.83674	1.83672	
349		3	1.83618	1.83619		
						Final Standby Value: _____

Notes: PWR928 1.99778 1.99779 6/1/2019

AUTOSAL ANALYSIS LOGSHEET

3 pm

Cruise ID: <u>2018-63</u>	Cast/Station Name: <u>SWL CRUISE</u>	Analysis Date (dd mmm yyyy): <u>21 01 2019</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>69086</u>	
Initial Standby Value: <u>24+6056</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: _____ °C Room Temperature: <u>21.7</u> °C Analyst: _____

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
351	SEC-5	5	1.83557	1.83559		4 flushes
353		7	1.82164	1.82166		
355		9	1.80687	1.80689		
368	SEC-4	2	1.86956	1.86957		4f
370		4	1.86934	1.86933		
372		6	1.86969	1.86971		
374		8	1.84838	1.84836		
377		11	1.84491	1.84492		
380	SEC-3	2	1.87732	1.87735		4f
382		4	1.87740	1.87742		
382		4	1.87743	1.87744		
384		6	1.87465	1.87466		
386		8	1.87228	1.87228		
388		10	1.85939	1.85939		
392		14	1.84692	1.84692		
394	UTN-6	2	1.87214	1.87214		4f
396		4	1.87299	1.87301		
398		6	1.87137	1.87138		
400		8	1.87023	1.87024		
402		10	1.86739	1.86739		
406	SEC-2	2	1.87189	1.87191		4f
408		4	1.86972	1.86972		
410		6	1.86582	1.86584		
410		6	1.86550	1.86552		
						Final Standby Value: _____

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

3:48 pm

Cruise ID: <u>2018-63</u>	Cast/Station Name: <u>SWL CRUISE</u>	Analysis Date (dd mmm yyyy): <u>21 01 2019</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>69086 Arctic Autosol</u>	
Initial Standby Value: <u>6056</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>22.0</u> °C Analyst: <u>Mary Steel</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
412	SEC-2	8	1.86279	1.86279		
414	1	10	1.86137	1.86138		
418	SEC-1	2	1.86291	1.86290		
420	1	4	1.86108	1.86108		
422	1	6	1.85574	1.85574		
424	1	8	1.85428	1.85428		
426	1	10	1.84198	1.84199		
430	UTN-7	2	1.88254	1.88254		4 f
432	1	4	1.88306	1.88306		
434	1	6	1.87787	1.87789		
436	1	8	1.87549	1.87550		
438	1	10	1.87185	1.87186		
438	1	10	1.87177	1.87179		
440	1	12	1.87175	1.87173		
444	DB04.6n	2	1.87712	1.87712		4 f
444	1	2	1.87733	1.87733		
446	1	4	1.87776	1.87775		
448	1	6	1.87683	1.87683		
450	1	8	1.75347	1.75348		
452	1	10	1.73321	1.73321		
455	DB04.5n	2	1.87790	1.87790		4 f
457	1	4	1.87985	1.87987		
459	1	6	1.86567	1.86567		
461	1	8	1.78329	1.78330		
						Final Standby Value: _____

Notes: <u>DWR 928</u>	<u>1.99780</u>	<u>1.99781</u>	<u>6 flushes</u>
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AUTOSAL ANALYSIS LOGSHEET

4:36 pm

Cruise ID: <u>2018-63</u>	Cast/Station Name: <u>SWL CRUISE</u>	Analysis Date (dd mmm yyyy): <u>21 01 2019</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>69086</u>	
Initial Standby Value: <u>6056</u>	Ratio After Standardization: _____	
Cell Standardization (Daily) Conductivity must be ± 0.00001 compared to Standard	Standardization Values: Before: _____ After: <u>Same</u> Notes: _____	Standard Info. K ₁₅ VALUE: <u>0.999</u> Batch #: <u>Same</u> Batch Date: _____
		Bath Temperature: <u>24</u> °C Sample Temperature: _____ °C Room Temperature: <u>21.8</u> °C Analyst: <u>Mary Steel</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
463	DB04.5n	10	1.71103	1.71101		4 flushes
467	DB04.4n	2	1.88278	1.88278		4 flushes
469		4	1.88199	1.8202		
471		6	1.84783	1.84794	1.84794	
473		8	1.76796	1.76798		
473		8	1.76842	1.76842		
475		10	1.72102	1.72103		
487	DB04.3n	2	1.88628	1.88629		4 f.
487		2	1.88635	1.88637		
490		4	1.88417	1.88418		
492		6	1.88212	1.88211		
494		8	1.83716	1.83717		
496		10	1.74436	1.74436		
500	DB04.2	2	1.88346	1.88346		4 f.
502		4	1.88364	1.88362		
504		6	1.88241	1.88241		
506		8	1.81954	1.81963	1.81964	
508		10	1.75684	1.75686		
Final Standby Value:						_____

Notes: _____
