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Autosal Salinity Analysis Log Sheet

Standardization Information				Standard Information		Autosal Model 8400B		Cruise Information	
Initial Standby Value		24+6077		K ₁₅	0.99977	Serial Number	691086	Cruise ID	2010-07
Initial Standard Dial Value				Batch #	P151	Bath T (°C)	24	Date	2010-07 18
Standby Value after Standardization		24+6090		Batch Date	20 May 2012	Lab T (°C)	STEF. 22.6°C	Analyst	CS
Standard Dial Value after Standardization		6045		CONDUCTIVITY 22.4°C FLOOR 20.6°C					
Final Standby Value (end of analysis)		24+6090							
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
1	1	AGS	198859	198860					
3	1	AGS	198820	198820					
4	1	AGS	198759	198766					
5	1	AGS	198699	198699					
6	1	AGS	198602	198604					
7	1	AGS	198376	198378					
8	1	AGS	198215	198216					
9	1	AGS	197875	197875		good.			
10	1	AGS	197790	197789					
11	1	AGS	196466	196466					
12	1	AGS	195389	195389					
13	1	AGS	192968	192967					
14	1	AGS	191019	191020					
15	1	AGS	189167	189167					
16	1	AGS	188142	188142					
17	1	AGS	186959	186958					
18	1	AGS	184258	184258					
19	1	AGS	181976	181977					
20	1	AGS	173543	173544					
21	1	AGS	172937	172937					
23	2	CABOS	199437	199441	199440				
24	2	CABOS	199397	199397					
25	2	CABOS	199358	199358					
26	2	CABOS	199319	199319					
27	2	CABOS	199173	199214					
27	2	CABOS	199175	199774					
28	2	CABOS	199217	199216					
29	1	CABOS	199056	199056		good			
30	2	CABOS	198977	198977					
31	2	CABOS	198840	198840					
32	2	CABOS	198516	198599	198598				

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Standardization Information				Standard Information		Autosal Model 8400B		Cruise Information	
Initial Standby Value 24+6099				K ₁₅ 0.99997		Serial Number 69086		Cruise ID 2011-07	
Initial Standard Dial Value				Batch # P151		Bath T (°C) 24		Date 18 SEP 2010	
Standby Value after Standardization 24+6090				Batch Date 12 MAR 2012		Lab T (°C) ~ 23		Analyst QS	
Standard Dial Value after Standardization				* AROUND 1700 HRS. LAB WAS 24.9 °C					
Final Standby Value (end of analysis) 24+6090				Conductivity #1		Conductivity #2		Conductivity #3	
Sample	Cast	Station		Conductivity #1	Conductivity #2	Comments			
33	2	CABOS		1.97229	1.97278				
34	2	CABOS		1.95773	1.95724				
35	2	CABOS		1.93511	1.93571				
36	2	CABOS		1.91671	1.91672				
37	2	CABOS		1.90736	1.90738				
38	2	CABOS		1.89536	1.89540	1.89540.			
39	2	CABOS		1.89540	1.89544				
40	2	CABOS		1.86366	1.86364				
41	2	CABOS		1.87511	1.87512				
42	2	CABOS		1.86936	1.86936				
43	2	CABOS		1.77938	1.77936				
44	2	CABOS		1.72155	1.72156	1.72156			
LOOP 15	2010-03	LOOP		1.46648	1.46656	1.46660			
LOOP 16	2010-08	LOOP		1.49226	1.49226				
LOOP 17	2010-03	LOOP		1.54049	1.54051				
LOOP 18	2010-03	LOOP		1.54807	1.54810				
LOOP 19	2010-03	LOOP		1.61407	1.61407				
LOOP 20	2010-03	LOOP		1.61384	1.61384				
LOOP 21	2010-08	LOOP		1.61202	1.61202				
LOOP 22	2010-08	LOOP		1.56736	1.56734				
LOOP 23	2010-08	LOOP		1.68989	1.68991				
LOOP 24	2010-08	LOOP		1.69785	1.69787				
LOOP 25	2010-08	LOOP		1.73563	1.73566	1.73567			
LOOP 26	2010-03	LOOP		1.69712	1.69713				
LOOP 27	2010-03	LOOP		1.53796	1.53797				
LOOP 28	2010-03	LOOP		1.63008	1.63010				
LOOP 29	2010-08	LOOP		1.67073	1.67073				
LOOP 30	2010-03	LOOP		1.62931	1.62834				
LOOP 31	2010-08	LOOP		1.51364	1.51365				
LOOP 32	2010-08	LOOP		1.52400	1.52401				
LOOP 33	2010-08	LOOP		1.53716	1.53727				

* Running Loop Samples from 2010-08

LINER NOT SEALED - LEAKY

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Standardization Information				Standard Information		Autosal Model 8400B		Cruise Information	
Initial Standby Value 2446090				K ₁₅ 0.99997		Serial Number 69086		Cruise ID 2010-07	
Initial Standard Dial Value 4466045				Batch # P151		Bath T (°C) 24°C		Date Sep. 22, 2010	
Standby Value after Standardization 2446090				Batch Date : none		Lab T (°C) 22.1°C/21.9°C		Analyst KS	
Standard Dial Value after Standardization 4466045				Use by: 05/20/2012					
Final Standby Value (end of analysis)									
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
131	bot 2 ref	8-Bel-8	1.87898	1.87896	1.87898				
283	1 ref	2010-07	1.99379	1.99380					
131	bot 2 ref	8-Bel-8	1.87914	1.87919	1.87921				
131	bot 2 ref	8-Bel-8	1.87916	1.87922	1.87913				
131	bot 2 ref	8-Bel-8	1.87906	1.87910	1.87916				
283	(ref)	2010-07	1.99394	1.99394					
283	ref	2010-07	1.99378	1.99377	1.99379				
283	ref	2010-07	1.99379	1.99380					
45	3	CB-31b	1.99157	1.99156					
46			1.99614	1.99616					
47			1.99499	1.99501	1.99503				
48			1.99423	1.99422					
49			1.99329	1.99330					
50			1.99268	1.99268					
51			1.99200	1.99198					
52			1.79718	1.79726	1.79726	bad bottle 8			
53			1.99085	1.99085		conductivity #1 may be off - adjusted suppression? missing?			
54			1.98904	1.98907	1.98909				
55			1.98567	1.98566					
56			1.96893	1.96895					
57			1.95177	1.95182	1.95187				
58			1.93483	1.93484					
59			1.90927	1.90928					
60			1.89520	1.89519					
61			1.88426	1.88425					
62			1.85979	1.85980					
63			1.83530	1.83532					
64			1.80283	1.80283					
65			1.76025	1.76029	1.76033				
66	✓	✓	1.75126	1.75128					
67	3	CB-31b	1.73417	1.73417					

bad bottle 8

-conductivity #1 may be off - adjusted suppression? missing sample?

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Standardization Information				Standard Information		Autosal Model 8400B		Cruise Information	
Initial Standby Value				2416090		Serial Number 69026		Cruise ID 1010-07	
Initial Standard Dial Value						Batch #		Date Sept. 17, 2010	
Standby Value after Standardization see page 1						Batch Date		Analyst KS/CS	
Standard Dial Value after Standardization									
Final Standby Value (end of analysis)									
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
68	3	CB-216	1.66457	1.66450	1.66451				
69	4	CB-60	1.99454	1.99462	1.99467				
70	4	CB-60	1.99408	1.99409					
283	ref	2010-07	1.99377	1.99381	1.99387				
71	4	CB-60	1.99354	1.99357	1.99361				
72			1.99317	1.99320	1.99318				
73			1.99247	1.99248					
74			1.99174	1.99177	1.99185				
75			1.99137	1.99139					
76			1.99382	1.99383					
77			1.99058	1.99063	1.99064				
78			1.98907	1.98909		good			
79			1.98795	1.98800	1.98798				
80			1.98487	1.98490	1.98496	- 3rd conductivity bad			
81			1.98015	1.98014					
82			1.97168	1.97169					
83			1.95437	1.95439					
84			1.93431	1.93432					
85			1.90378	1.90379					
86			1.86498	1.86499					
87			1.83015	1.83017					
88			1.76932	1.76931					
89			1.75625	1.75625					
90			1.72818	1.72819					
91	4	CB-60	1.70660	1.70662					
92	5	CB-61	1.99333	1.99344	1.99339				
93	5	CB-61	1.99281	1.99282					
283	ref	2010-07	1.99382	1.99381					
111	7	CB-63	1.98729	1.98739	1.98742				
118	7	CB-63	1.65596	1.65581	1.65582				
119	8	CB-64	1.85774	1.85775					

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Standardization Information			Standard Information		Autosal Model 8400B		Cruise Information	
Initial Standby Value			K ₁₅	Batch #	Serial Number	Cruise ID	Date	
2446090					69096	2010-07	22 SEP 2010	
Initial Standard Dial Value			Batch Date	Bath T (°C)	Lab T (°C)	Analyst		
see pg. 1				24.0	23.6°C @ 12:38	CS		
Standard Dial Value after Standardization								
Final Standby Value (end of analysis)								
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments		
120	B	CB-64	1.70800	1.70799				
121	9	CB-65	1.86496	1.86496				
122	9	CB-65	1.67891	1.67891				
147	11	MK-3	1.99326	1.99331	1.99334			
148	11	MK-3	1.99174	1.99273				
149	11	MK-3	1.99212	1.99212				
150	11	MK-3	1.99164	1.99166				
151	11	MK-3	1.99097	1.99096				
152	11	MK-3	1.99089	1.99088				
153	11	MK-3	1.99031	1.99032				
154	11	MK-3	1.89705	1.89702		Bad bottle 8		
155	11	MK-3	1.98691	1.98691				
156	11	MK-3	1.98428	1.98429				
157	11	MK-3	1.97993	1.97994				
158	11	MK-3	1.97269	1.97264				
159	11	MK-3	1.96074	1.96083	1.96081			
160	11	MK-3	1.94254	1.94255				
161	11	MK-3	1.90820	1.90821				
162	11	MK-3	1.89719	1.89719				
163	11	MK-3	1.88712	1.88712				
164	11	MK-3	1.88068	1.88069				
165	11	MK-3	1.86463	1.86405	1.86407			
166	11	MK-3	1.84335	1.84335				
167	11	MK-3	1.81383	1.81381				
168	11	MK-3	1.77710	1.77717				
169	11	MK-3	1.55563	1.55563				
283	ref	2010-07	1.99381	1.99385				
170	12	MK-2	1.99230	1.99231				
171	12	MK-2	1.99189	1.99189				
172	12	MK-2	1.99150	1.99151				
173	12	MK-2	1.99105	1.99105				

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Standardization Information				Standard Information		Autosal Model 8400B		Cruise Information	
Initial Standby Value 2416090				K ₁₅		Serial Number 69036		Cruise ID 200-07	
Initial Standard Dial Value See 801				Batch #		Bath T (°C) 24.1		Date 2007 22 2007	
Standby Value after Standardization				Batch Date		Lab T (°C) 22.4°C 2007		Analyst CS	
Standard Dial Value after Standardization									
Final Standby Value (end of analysis)									
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
174	12	HW-2	199012	199013					
175	1		198909	198910					
176			198813	198814					
178			198062	198062					
179			197409	197409					
180			197211	197211					
181			195562	195562					
182			193313	193313					
183			191335	191336					
184			189690	189693					
185			188252	188247	188248				
94	5	CB-61	199207	199210					
95			199156	199157					
96			199108	199109					
97			199080	199078					
98			199043	199045					
99			198907	198909					
100			198786	198795	198795				
101			198570	198572		good bottle 8			
102			198057	198058					
283	ref	2010-07	199384	199388	199386				
103	5	CB-61	191135	197134					
104			196045	196045					
105			193711	193710					
106			191058	191058					
107			189840	189842					
108			188360	188361					
109			187020	187019					
110			182686	183686		good bottle 8			
111			180755	180755					
112			177161	177161					

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0.9999
0.9999
199994

Standardization Information

Initial Standby Value 2446089
Initial Standard Dial Value 607
Standby Value after Standardization 6089
Standard Dial Value after Standardization 6089
Final Standby Value (end of analysis) 607

Standard Information

K₁₅ 0.99997
Batch # P151
Batch Date
Autosal Model 8400B
Serial Number 67086
Bath T (°C) 24
Lab T (°C) 22.5
Cruise ID 2010-07
Date 2010-07-24
Analyst MD

Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments
slush						
P151			1.99992			acc 1.99992
186	12	MK-2	1.87060	1.87069	1.87072	
187			1.85922	1.85920	1.85922	
188			1.79887	1.79887	1.79891	
189			1.77721	1.77721		
190			1.76125	1.76125		
191			1.68111	1.68411		
192	13	MK-1	1.78335	1.78336	1.78339	1.78340
193			1.97827	1.97826		
194			1.76788	1.76785	1.76786	
195			1.93238	1.93232	1.93240	
196			1.90248	1.90248		
197			1.89185	1.89186		
198			1.87973	1.87972		
199			1.84144	1.84142	1.84142	
200			1.81134	1.81133		good bottle 8
201			1.79871	1.79872		
202			1.75255	1.75254		
203			1.69146	1.69145		
204	14	CB28cc	1.84979	1.84981	1.84984	
205			1.84539	1.84539		
206			1.81335	1.81334		
207			1.77551	1.77551		
208			1.77593	1.77593		
209	100	2010-07	1.95367	1.95370	1.95371	Deep Ref Standard. 2010-07
131P	111	2010-08	1.87910	1.87914	1.87917	Acc Ref Standard 2010-06 8.5e18
						1.87915

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Standardization Information				Standard Information		Autosal Model 8400B		Cruise Information	
Initial Standby Value				K ₁₅		Serial Number		Cruise ID	
Initial Standard Dial Value				Batch #		Bath T (°C)		Date	
Standby Value after Standardization				Batch Date		Lab T (°C)		Analyst	
Standard Dial Value after Standardization									
Final Standby Value (end of analysis)									
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
209	14	C52800	1.77067	1.77080	1.77076	1.77075			
210	15	Mk3a	1.99538	1.99540					
211			1.99419	1.99421					
212			1.99349	1.99351					
213			1.99301	1.99300	1.99303				
214			1.99264	1.99263					
215			1.99219	1.99220					
216			1.99158	1.99161		problem testing bottle flushed +			
217			1.99038	1.99037	1.99162	good bottle 8			
218			1.99020	1.99019					
219			1.98825	1.98824					
220			1.98338	1.98347	1.98350				
221			1.97864	1.97866		deleted due to high SD.			
222			1.97288	1.97289					
224			1.94223	1.94387	1.94221	problems clearing left side of			
223			1.95963	1.95966	1.95976	1.95983			
225			1.91362	1.91360					
226			1.90405	1.90408	1.90406				
227			1.88659	1.88662	1.88661				
228			1.87695	1.87694					
229			1.86437	1.86437					
230			1.81155	1.81155					
231	15	Mk3a	1.79951	1.79950					
233	ref	2010-07	1.99370	1.99373	1.99376	2010-07 Deep Water Standard			
232	15	Mk-3a	1.74924	1.74922					
233			1.58590	1.58588					
235	16	Mk-4	1.99544	1.99552	1.99558				
236			1.99480	1.99481					
237			1.99403	1.99412	1.99411				
238			1.99333	1.99334					
239			1.99292	1.99296	1.99297				

flushed with DMQ

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Standardization Information

Initial Standby Value 24 + 6089

Initial Standard Dial Value

Standby Value after Standardization

Standard Dial Value after Standardization

Final Standby Value (end of analysis) 2446088

Standard Information

K₁₅

Batch # A151

Batch Date

Serial Number

Bath T (°C) 24

Lab T (°C) 22

Autosal Model 8400B

Cruise ID 2010-07

Date 2010-09-24

Analyst MD + CS

Comments

Conductivity #3

Conductivity #2

Conductivity #1

Station

Cast

Sample

240	16	AK-4	1.99265	1.99266		
241			1.99192	1.99195	1.99207	
242			1.85120	1.85122		
243			1.99041	1.99047	1.99066	
244			?	?	?	
245	16	AK-4	1.98843	1.98848	1.98890	
246			1.98473	1.98476	1.98476	
247			1.98013	1.98012		
248			1.97252	1.97251		
249			1.95554	1.95554		
250			1.93744	1.93744		
251			1.90986	1.90984		
252			1.89890	1.89890		
253			1.87960	1.87957		
254			1.86678	1.86680		
255			1.84423	1.84423		
6			1.81609	1.81611		
11		AG-5	1.93604	1.93605		
16		AG-5	1.96470	1.96470		
31		AG-5	1.88139	1.88139		
34	2	CABOS	1.98834	1.98840		
45	2	CABOS	1.98940	1.88939		
49	3	CB-31b	1.99744	1.99749	1.99751	
52	3	CB-31b	1.99331	1.99333		
56	3	CB-31b	1.79716	1.79714		
60	3	CB-31b	1.96886	1.96891	1.96892	
64	3	CB-31b	1.80522	1.80520		
73	3	CB-31b	1.80283	1.80282		
80	4	CB-60	1.99232	1.99240	1.99242	
86	4	CB-60	1.98489	1.98491	1.98496	
86	4	CB-60	1.86509	1.86509		

Dups!!

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Standardization Information				Standard Information		Autosal Model 8400B		Cruise Information	
Initial Standby Value 246083				K ₁₅ = 0.99997		Serial Number 69086		Cruise ID 2010-07	
Initial Standard Dial Value				Batch # 2151		Bath T (°C) 24		Date 24-sep-2010	
Standby Value after Standardization SEE PG 1				Batch Date 2012-NA-12		Lab T (°C) 23.8°C		Analyst CS	
Standard Dial Value after Standardization				S.L. 34999		Bench: 23.1°C		Floor: 22.9°C	
Final Standby Value (end of analysis) 246089									
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
97	5	CB-61	199068	199077	199077				
103	5	CB-61	197133	197135					
109	5	CB-61	187032	187030					
151	11	MK-3	199087	199099	199101				
163	11	MK-3	188715	188714					
169	11	MK-3	155716	15570	15565				
175	12	MK-2	198898	198907	198907				
182	12	MK-2	193336	193336					
189	12	MK-2	185927	185975					
198	13	MK-1	181917	181917					
283	ref	2010-07	199375	199376					
251	16	MK-4	179291	179292		DEP the STD			
257	↓	↓	175674	175673					
258	↓	↓	146584	146582					
259	17	MK-6	199755	199757					
260	↓	↓	199725	199732	199732				
261	↓	↓	199572	199573					
262	↓	↓	199144	199146					
263	↓	↓	199406	199403					
264	↓	↓	199344	199341					
265	↓	↓	199248	199248					
266	↓	↓	177542	177542					
267	↓	↓	199107	199108	199108	Misfire? Random low salinity. Bad bottle B			
269	↓	↓	199089	199087					
269	↓	↓	198937	198940					
270	↓	↓	198596	198597					
271	↓	↓	191671	191670					
272	↓	↓	195326	195323					
273	↓	↓	193923	193923					
274	↓	↓	190928	190928					
275	↓	↓	189711	189758	189759				

DUPS!
CONTD.

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Standardization Information				Standard Information		Autosal Model 8400B		Cruise Information	
Initial Standby Value 2416089				K ₁₅	0.99997	Serial Number 69086		Cruise ID 2010-07	
Initial Standard Dial Value 6.045				Batch #	P151	Bath T (°C) 24		Date Sept. 25, 2010	
Standby Value after Standardization 2416090				Batch Date	20 Nov 2012	Lab T (°C) 22.5		Analyst KS	
Standard Dial Value after Standardization 6.052				Salinity: 34.999 psu					
Final Standby Value (end of analysis)				Conductivity #1	Conductivity #2	Conductivity #3	Comments		
283	dwc	2010-07	1.99375	1.99377	1.99380	✓	deleted read 3		
283	dwc	2010-07	1.99371	1.99370			calibration display 1.99992		
321	19	CB-28b	1.86359	1.86256	1.86255		2.99992		
322			1.83177	1.83176			3.99992		
323			1.76398	1.76162	1.76163		4.99999		
324			1.79223	1.79223			declined		
325	19		1.61808	1.61807			commented on 20 instrument time out		
326	19	CB-28b	1.52639	1.52637			sample sat on platform for 4 to 5		
327	20	CB-29	1.99773	1.99774			modules longer before having a reading. Had		
328			1.99785	1.99783			to select program to be able to reinsert.		
329			1.99118	1.99719			insert leaking → sealed properly but leaking		
330			1.99612	1.99610	1.99608		when inserting bottle.		
331			1.99423	1.99424			leaky insert → same as above - lots of salt		
332			1.99363	1.99364			crystals on threads.		
333			1.99258	1.99274	1.99275		small bubbles on two lower cell arms		
334			1.99137	1.99138	1.99138				
335			1.99080	1.99079					
336			1.98957	1.98962	1.98962		insert not sealed properly - leaking - cap was loose		
337			1.98715	1.98778	1.98783		insert "		
338			1.98329	1.98329			1.97460		
339			1.97441	1.97459	1.97466		→ GARDENGE - could not get stable reading.		
340			1.96026	1.96025					
341			1.93934	1.93983					
342			1.91954	1.91954					
343	20	CB-29	1.91651	1.91654	1.91654				
283	dwc	2010-07	1.99374	1.99375	1.99378				
344	20	CB-29	1.89179	1.89180					
345			1.86674	1.86674					
346			1.83998	1.83998					
347			1.80106	1.80105					
348	20	CB-29	1.72404	1.72407					

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Autosal Salinity Analysis Log Sheet

Standardization Information				Standard Information		Autosal Model 8400B		Cruise Information	
Initial Standby Value				K ₁₅	Serial Number	Cruise ID		Cruise Information	
Initial Standard Dial Value				Batch #	Bath T (°C)	Date		Date	
Standby Value after Standardization				Batch Date	Lab T (°C)	Analyst		Analyst	
Standard Dial Value after Standardization									
Final Standby Value (end of analysis)									
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
349	20	CB-29	1.61638	1.61635	1.61635				
350	20	CB-29	1.46448	1.46450					
351	21	MK-7	1.99784	1.99792	1.99790	-deleted reading 1			
352			1.99757	1.99762	1.99755				
353			1.99718	1.99718	1.99717				
354			1.99595	1.99600	1.99600	-deleted reading 1			
355			1.99411	1.99412	1.99404	-deleted reading 3 - bubble in cell arm			
356			1.99339	1.99338		- lots of salt crystals on threads.			
357			1.99211	1.99239					
358			1.99175	1.99161	1.99176	-deleted reading 2 - bubble in cell arm			
359			1.99145	1.99148	1.99148				
360			1.98999	1.98998					
361			1.98503	1.98504					
362			1.97947	1.97945					
363			1.97025	1.97013	1.97024	- cap very loose - insert not sealed and leaking			
364			1.95844	1.95841					
365	↓		1.93531	1.93532					
366	21	MK-7	1.90544	1.90544					
283	dwc	2010-07	1.99376	1.99375					
367	21	MK-7	1.89245	1.89246					
368			1.87826	1.87825		- cap loose			
369			1.86262	1.86260					
370			1.85020	1.85020		- cap loose but insert sealed			
371			1.79882	1.79879	1.79880				
372			1.71695	1.71695					
373	↓		1.58404	1.58405					
374	21	MK-7	1.47034	1.47035					
375	72	CB-27	1.99774	1.99779	1.99782				
376			1.99757	1.99757					
377	↓		1.99705	1.99706					
378	72	CB-27	1.99585	1.99585					

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Autosal Salinity Analysis Log Sheet

Standardization Information				Standard Information		Autosal Model 8400B		Cruise Information	
Initial Standby Value				K ₁₅		Serial Number 69086		Cruise ID 2010-07	
Initial Standard Dial Value				Batch #		Bath T (°C) 24		Date Sept. 25, 2010	
Standby Value after Standardization see pg. 1				Batch Date		Lab T (°C)		Analyst KS	
Standard Dial Value after Standardization						bench: 22.6		@ 08:57 PST	
Final Standby Value (end of analysis)						Floor: 22.0			
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
379	22	CB-27	1.91396	1.91397					
380			1.91336	1.91334	1.91335				
381			1.91237	1.91236		= loose cap but insert seated properly			
383			1.91137	1.91135		No belg			
384			1.91044	1.91043					
385			1.91065	1.91064					
386			1.91293	1.91294		= cap self cups into on threads.			
387			1.91183	1.91183					
388			1.91389	1.91387					
389	↓		1.91446	1.91445					
390	22	CB-27	1.91519	1.91521	1.91519				
393	dwc	2010-07	1.91374	1.91376	1.91375				
391	22	CB-27	1.91175	1.91175					
392			1.91120	1.91181					
393			1.91047	1.91044	1.91047				
394			1.91119	1.91120					
395			1.91289	1.91289		= cap very loose - insert not seated and leaking.			
396			1.91320	1.91321					
397	↓		1.91556	1.91554					
398	22	CB-27	1.91180	1.91177	1.91176				
399	23	CB-22	1.91763	1.91777	1.91780	deleted reading			
400			1.91771	1.91768	1.91770				
401			1.91717	1.91717					
402			1.91586	1.91587					
403			1.91423	1.91422					
404			1.91343	1.91345					
405			1.91264	1.91264					
406			1.91232	1.91231					
407			1.9	1.9					
408	↓		1.9	1.9					
409	23	CB-22	1.9	1.9					

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Autosal Salinity Analysis Log Sheet

Standardization Information				Standard Information		Autosal Model 8400B		Cruise Information	
Initial Standby Value	24 + 6090			K ₁₅	0.99997	Serial Number	69086	Cruise ID	2010-07
Initial Standard Dial Value	6.072			Batch #	9151	Bath T (°C)	24°C	Date	Sept 26, 2010
Standby Value after Standardization	24 + 6084			Batch Date	20 May 2010	Lab T (°C)	23.1	Analyst	KS
Standard Dial Value after Standardization	5.99			Salinity: 34.999					
Final Standby Value (end of analysis)				Density: 1.020 Floor: 71.2					
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
283	dwc	2010-07	1.99375	1.99376	1.99376	Just a test after autosal calibration maintenance, Yes it's cal'd			
283	dwc	2010-07	1.99377	1.99376	1.99376	Calibration #5			
414	23	CB-22	1.90714	1.90712	1.90714	display: #1.9996 K ₁₅ : 0.999973 acc.			
415			1.89471	1.89472		#2.19994 K ₁₅ : 0.999973 acc.			
416			1.87863	1.87859	1.87861	#3.19994 K ₁₅ : 0.999975 not needed			
417			1.86279	1.86278					
418			1.84685	1.84686		cap loose - insert sealed			
419			1.79861	1.79864	1.79862				
420			1.75256	1.75255					
421	✓	→	1.58245	1.58245					
422	23	CB-22	1.46281	1.46282					
423	24	CB-23a	1.99765	1.99772	1.99774				
424			1.99722	1.99725	1.99723				
425			1.99585	1.99590	1.99591				
426			1.99484	1.99482					
427			1.99416	1.99421	1.99417				
428			1.99357	1.99358					
429			1.99308	1.99303	1.99307				
430			1.99203	1.99204		good bottle 8			
431			1.99141	1.99141					
432			1.98973	1.98976	1.98974	leaky insert - sealed properly			
433			1.98659	1.98659					
434			1.98169	1.98170					
435	✓	→	1.97151	1.97151					
436	24	CB-23a	1.95644	1.95643					
283	dwc	2010-07	1.99378	1.99377	1.99378				
437	24	CB-23a	1.93831	1.93829					
438			1.91445	1.91450					
439			1.90704	1.90704					
440	✓	→	1.89303	1.89302					
441	24	CB-23a	1.86474	1.86475					

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Autosal Salinity Analysis Log Sheet

Standardization Information				Standard Information		Autosal Model 8400B		Cruise Information	
Initial Standby Value				K ₁₅		Serial Number		Cruise ID 2010-07	
Initial Standard Dial Value				Batch # 0151		Bath T (°C)		Date 2010-07-26	
Standby Value after Standardization				Batch Date		Lab T (°C)		Analyst MB	
Standard Dial Value after Standardization									
Final Standby Value (end of analysis)				6034					
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
442	24	CB-23a	1.84054	1.84052					
443	↓	↓	1.77680	1.77680					
444	↓	↓	1.75905	1.75904					
445	24	CB-23a	1.68405	1.68405					
446	↓	↓	1.55905	1.55911	1.55915	1.55908			
471	26	CB-50	1.99763	1.99770	1.99774	1.99774 — done before 437 *			
470	↓	CB-50	1.99767	1.99778	1.99785	1.99783 — deleted ice!			
472	↓	↓	1.99778	1.99778					
473	↓	↓	1.99777	1.99792					
474	↓	↓	1.99726	1.99725	1.99725	— deleted — Fishing ice?			
475	↓	↓	1.99733	1.99734					
476	↓	↓	1.99775	1.99775					
477	↓	↓	1.99707	1.99706					
478	↓	↓	1.99737	1.99736		? same depth?			
479	↓	↓	1.99736	1.99736					
480	↓	↓	1.98877	1.98878					
481	↓	↓	1.98344	1.98344					
482	↓	↓	1.98029	1.98031	1.98032				
283	↓	CB-28a	1.99373	1.99374	1.99374	2010-07 Deep water check.			
483	↓	CB-50	1.97252	1.97252					
484	↓	↓	1.96415	1.96415					
485	↓	↓	1.92199	1.92206	1.92207				
486	↓	↓	1.90692	1.90691					
487	↓	↓	1.89791	1.89790					
488	↓	↓	1.87164	1.87167	1.87168				
489	↓	↓	1.85048	1.85049					
490	↓	↓	1.81188	1.81188		bottle pulled off by accident between 489			
491	↓	↓	1.76250	1.76250					
492	↓	↓	1.67480	1.67480	1.67479				
493	↓	↓	1.60775	1.60777					
494	27	CB-51	1.75752	1.75753		Fishing			

25/1/2010
Flicker
ice

same depth?

2010-07 Deep water check.

Bole pulled off by accident between 182

Flicker