

Altimeter Ratio. STD - 13° Numb 5 =

0.99979.

Sept 12/06 - Hugh - 24 + 6305.

99979

Sept 20/06 - - 24 + 6305.

$\boxed{1.999958}$
1.999961
62.

while flushing Ratio $\rightarrow$ 24 + 6308/9.

4pm - Ratio $\rightarrow$ 24 + 6301

Autosal Analysis Sheet

Rm 11 p 1

Page: 1

Date: 20 Sept 06

Analyst: SZimmerman

11:11 am

Standby Val before calibration: 24+6308

after calibration: 24+6305

Salinometer

Vial information
K₁₅ = 0.99979
Batch # P146
Batch Date: 12-May-05

Model # 8400A
Serial # 49463
Zero: 0.00003
Bath temp.: 24°
Sample temp.:
Room temp.: 23.5°

time:

Bubble at top of 3rd cell

			Autosal Conductivity Reading				Salinity ppt Computed	Remarks
Sample #	Station Id	Depth m	#1	#2	#3	Average		
STD			1.99962	1.99962	1.99961			Before STD calibration
STD			1.99959	1.99958				after STD (5.665)
								zero after is 0.00004
959	CB13	23	1.70227	1.70230	1.70230			CAST 60 last cell to kg
960	CB13	24	1.60612	1.60612				longer to fill
961	CB16	1	1.99809	1.99808				4 flushes
961	CB16	1	1.99777	1.99778				DUP
962	CB16	2	1.99779	1.99782	1.99793	1.99794	1.99794	
962	CB16/61	2	1.99792	1.99795	1.99792			DUP
963	CB16/61	3	1.99784	1.99785				
963	CB16	3	1.99772	1.99773	1.99772			DUP quite different
964	CB16	4	1.99733	1.99733				
965	CB16	5	1.99595	1.99594				
966	CB16	6	1.99415	1.99417	1.99420	1.99421	1.99420	Method was incorrect!
			Break	12:30 -				I was not flushing out old sample before loading in new. This explains large range & why the first few are quite different readings
967	CB16	7	1.99357	1.99360	1.99358			
968	"	8	1.99293	1.99294				
969	"	9	1.99217	1.99218				
1010	CB15/63	9	1.99229	1.99229				
1011	"	10	1.99150	1.99152	1.99150			
1012	"	11	1.99142	1.99159	1.99160	1.99159		
1013	"	12	1.99080	1.99084	1.99083			→ changed to 1.99083 sz
1014	"	13	1.98613	1.98614				
1015	"	14	1.97996	1.97997				
1016	"	15	1.97016	1.97018	1.97016			

1205 km

Autosal Analysis Sheet

p 2

Page: 2

Standby Val before calibration: ~~same~~
after calibration: 24 + 62.99

Vial informal K₁₅ =
Batch # ~~same~~
Batch Date:

Salinometer
Model # ~~same~~
Serial # ~~same~~
Zero: 0.0 + 0000

Bath temp.: 24.
Sample temp.: 23.
Room temp.: 23°C

140 pm.

Autosal Conductivity Reading							Salinity ppt	
Sample #	Station Id	Depth m	#1	#2	#3	Average	Computed	Remarks
1017	CB15/163	16	1.95494	1.95495				
1018	"	17	1.94349	1.94349				
1019	"	18	1.93140	1.93140				
1020	"	19	1.90519	1.90519				
1021	"	20	1.89216	1.89216				
1022	"	21	1.87944	1.87944				
1023	"	22	1.82353	1.82352				
1024	"	23						
		23						
BREAK to see			T. Fox					2-4 pm
STD BY is			24 + 62.99	0	is 0.0 + 0000		Lab T = 22°C	
1024	"	23	1.65495	1.65497	1.65498			
1025	"	24	1.56666	1.56666				
1026	CB149/64	1	1.99430	1.99428	1.99430			
1027	"	2	1.99357	1.99356				
1027	"	2	1.99344	1.99345	1.99346	1.99344		? DUP ? NOT!
1028	"	3	1.99287	1.99287				
1029	"	4	1.99164	1.99164	1.99164			
1030	"	5	1.99098	1.99100	1.99100	1.99100		
1031	"	6	1.98169	1.98170				
1032	"	7	1.97080	1.97083	1.97080			
1033	"	8	1.96158	1.96158				
1034	"	9	1.95367	1.95368				
1035	"	10	1.92991	1.92993	1.92997	1.92996	1.92999	

Autosal Analysis Sheet

Date: Sep 20/06

Analyst: MS + SZ

Standby Val before calibration: <u>same</u>								
after calibration: <u>same</u>		Salinometer						
Vial informal K ₁₅ =		Model #	Bath temp.: <u>24</u>					
Batch #		Serial # <u>SAME</u>	Sample temp.: <u>22°</u> <u>22.5°C</u> <u>p 3</u>					
Batch Date: <u>SAME</u>		Zero:	Room temp.: <u>22°</u>					
Autosal Conductivity Reading				Salinity ppt				
Sample #	Station Id	Depth m	#1	#2	#3	Average	Computed	Remarks
	<u>STD B</u>	<u>24 +</u>	<u>6301</u>	<u>438</u>	<u>pm</u>			
<u>1036</u>	<u>CB14a/64</u>	<u>11</u>	<u>1.90910</u>	<u>1.90911</u>	<u>1.90911</u>			
<u>1037</u>	<u>"</u>	<u>12</u>	<u>1.89711</u>	<u>1.89711</u>				
<u>1038</u>	<u>"</u>	<u>13</u>	<u>1.88395</u>	<u>1.88394</u>				
<u>1039</u>	<u>"</u>	<u>14</u>	<u>1.85808</u>	<u>1.85814</u>	<u>1.85813</u>	<u>1.85811</u>		
<u>1040</u>	<u>"</u>	<u>15</u>	<u>1.84643</u>	<u>1.84643</u>				
<u>1041</u>	<u>"</u>	<u>16</u>	<u>1.82184</u>	<u>1.82183</u>				
<u>1042</u>	<u>"</u>	<u>17</u>	<u>1.80879</u>	<u>1.80879</u>				
<u>1043</u>	<u>"</u>	<u>18</u>	<u>1.74465</u>	<u>1.74465</u>				
<u>1044</u>	<u>"</u>	<u>19</u>	<u>1.64967</u>	<u>1.64966</u>	<u>1.64968</u>			
<u>1045</u>	<u>"</u>	<u>20</u>	<u>1.56781</u>	<u>1.56781</u>				
<u>5:15 pm</u>								
<u>1047</u>	<u>CB13/65</u>	<u>1</u>	<u>1.99423</u>	<u>1.99418</u>	<u>1.99420</u>	<u>1.99423</u>		<u>4 flushes</u>
<u>1051</u>	<u>"</u>	<u>5</u>	<u>1.99317</u>	<u>1.99321</u>	<u>1.99321</u>			<u>"</u>
<u>1055</u>	<u>"</u>	<u>9</u>	<u>1.99272</u>	<u>1.99272</u>				<u>"</u>
<u>1059</u>	<u>"</u>	<u>13</u>	<u>1.99231</u>	<u>1.99230</u>				<u>"</u>
<u>1060</u>	<u>"</u>	<u>14</u>	<u>1.99150</u>	<u>1.99154</u>	<u>1.99153</u>			
<u>1061</u>	<u>"</u>	<u>15</u>	<u>1.99156</u>	<u>1.99155</u>				
<u>1065</u>	<u>"</u>	<u>19</u>	<u>1.99097</u>	<u>1.99096</u>				<u>4 flushes</u>
<u>1066</u>	<u>"</u>	<u>20</u>	<u>1.99089</u>	<u>1.99090</u>				
<u>1067</u>	<u>"</u>	<u>21</u>	<u>1.98680</u>	<u>1.98680</u>				
<u>1071</u>	<u>CB17/Cole</u>	<u>1</u>	<u>1.99776</u>	<u>1.99776</u>				<u>4 flushes</u>
<u>1072</u>	<u>"</u>	<u>2</u>	<u>1.99772</u>	<u>1.99774</u>	<u>1.99774</u>			
<u>1073</u>	<u>"</u>	<u>3</u>	<u>1.99764</u>	<u>1.99764</u>				
<u>1074</u>	<u>"</u>	<u>4</u>	<u>1.99715</u>	<u>1.99715</u>				
<u>1075</u>	<u>"</u>	<u>5</u>	<u>1.99578</u>	<u>1.99577</u>				

5:46 pm

Autosal Analysis Sheet

Standby Val before calibration: *24 + 6301*

after calibration: *Same*

Salinometer

Model #

Bath temp.: *24*

Serial # *Same*

Sample temp.: *22°C*

Zero:

Room temp.: *22°C*

Date: *Sept 20/06*

Analyst: *MS*

Vial information K₁₅ =
Batch # *Same*
Batch Date:

Autosal Conductivity Reading

Salinity ppt

Computed

Remarks

Sample #	Station Id	Depth m	#1	#2	#3	Average	Salinity ppt Computed	Remarks
1076	CB17/66	6	1.9 9405	1.9 9406				
1077	"	7	1.9 9335	1.9 9335				
1078	"	8	1.9 9249	1.9 9248				
1079	"	9	1.9 9152	1.9 9151				
1080	"	10	1.9 9153	1.9 9154	1.9 9153			
1081	"	11	1.9 9090	1.9 9090				
1082	"	12	1.9 8648	1.9 8648				
1083	"	13	1.9 7104	1.9 7102	1.9 7104			
1084	"	14	1.9 7099	1.9 7095	1.9 7097			
1085	"	15	1.9 6062	1.9 6061				
1086	"	16	1.9 5091	1.9 5091				
1087	"	17	1.9 2751	1.9 2752				
1088	"	18	1.9 0699	1.9 0699				
1089	"	19	1.8 9418	1.8 9416	1.8 9416			
1090	"	20	1.8 8061	1.8 8062				
1091	"	21	1.8 6584	1.8 6584				
1092	"	22	1.8 2017	1.8 2017				
1093	"	23	1.7 8759	1.7 8762	1.7 8762			
1094	"	24	1.5 1250	1.5 1251				
1095	CB18/67	1	1.9 9778	1.9 9778				4 flushes
1096	"	2	1.9 9774	1.9 9774				
1097	"	3	1.9 9755	1.9 9755				
1098	"	4	1.9 9577	1.9 9577				
1099	"	5	1.9 9417	1.9 9417				
1100	"	6	1.9 9330	1.9 9330				
1101	"	7	1.9 9255	1.9 9255				

5:40 pm

P 4

Autosal Analysis Sheet

Date: Sept. 20/06 6:50 pm

Analyst: MS

Standby Val before calibration:

after calibration:

Salinometer

Vial information K₁₅ =

Batch #

Batch Date:

Model #

Serial #

Zero:

Bath temp.: 24.

Sample temp.: 21.5°C

Room temp.: 21.5°C

p 5

			Autosal Conductivity Reading				Salinity ppt	
Sample #	Station Id	Depth m	#1	#2	#3	Average	Computed	Remarks
1102	CB18/67	8	1.99108	1.99110	1.99109			
1103	"	9	1.99138	1.99139				
1104	"	10	1.99078	1.99077				
1105	"	11	1.98514	1.98514				
1106	"	12	1.98014	1.98015	1.98015			
1107	"	13	1.97219	1.97219				
1108	"	14	1.96631	1.96630				
1109	"	15	1.95479	1.95480				
1110	"	16	1.93602	1.93604	1.93604			
1111	"	17	1.91359	1.91360				
1112	"	18	1.89937	1.89936				
1113	"	19	1.85001	1.85000				
1114	"	20	1.81746	1.81745	1.81745			
1115	"	21	1.76058	1.76062	1.76063	1.76062		
1116	"	22	1.68605	1.68604				
1024	CB15/63	23	1.65502	1.65502				
1091	CB17/66	21	1.86566	1.86566				
1091	GB17/66	21	1.86593	1.86594				DUP ?
1114	CB18/67	20	1.81615	1.81614	1.81614			
1040	CB14a/64	15	1.84646	1.84647				
1096	CB18/67	2	1.99774	1.99775				
1072	CB17/66	2	1.99778	1.99780	1.99780			
1072	CB17/66	2	1.99778	1.99778				DUP
STD			1.99954	1.99956	1.99955	1.99955		did NOT shake STD
STD BY 24+6302			ZERO	0.0+0.001				