

$$K_{15} \times 2 = 1.99974$$

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>Calibration</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>17 07 2019</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24 + 6025</u>	Ratio After Standardization: <u>24 + 6018</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>5.32</u> After: <u>5.22</u> Notes: _____	K_{15} VALUE: 0.999 <u>87</u> Batch #: <u>P161</u> Batch Date: <u>03 May 2020</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>20.7</u> °C Room Temperature: <u>20.7</u> °C Analyst: <u>KS and JS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
P161			1.99982	2 not accepted		Calibration #1
P161			1.99976	accepted		same bottle as above
P162	$K_{15} \times 2 = 1.99966$		1.99967	accepted		checked cal with different
P162	PSU = 34.993		1.99967	1.99968		batch
	Linearity Check					ran as sample to confirm 34.9934
10L19			0.64120	0.64119		PSU: 9.996 $\rightarrow$ 9.9984
30L19			1.74321	1.74321	1.74322	PSU: 30.005 $\rightarrow$ 30.0050
P162			1.99965	1.99965		PSU: 34.993 $\rightarrow$ 34.9929
38H15			2.15176	2.15175		PSU: 38.005 $\rightarrow$ 38.0070
	Drift Check					
301	2019-001		1.97981	1.97981		34.6030
301	stn P25		1.97980	1.97980		34.6026
301	2605 m		1.97980	1.97979		34.6028
301	Niskin 1,23		1.97981	1.97980		34.6030
301	samples 299, 300, 301		1.97978	1.97979		34.6028
301			1.97978	1.97978		34.6026
301			1.97979	1.97978		34.6028
301			1.97978	1.97978		34.6027
301			1.97978	1.97979		34.6027
301			1.97978	1.97978		34.6025
						Final Standby Value: _____

Notes:

Deep Water Reference.
 $\rightarrow$ Ran consecutively to check for any drift.

Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2019-006</u>	Cast/Station Name: <u>Various</u>	Analysis Date (dd mmm yyyy): <u>17 07 2019</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24 + 6018</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: _____ After: _____ Notes: _____	K ₁₅ VALUE: <u>0.999</u> Batch #: _____ Batch Date: _____
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>21.8</u> °C Room Temperature: <u>21.8</u> °C Analyst: <u>KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
117	P6	1	1.86127	1.86127		
118	P7	1	1.86234	1.86233		
5022	Loop7	1	1.86235	1.86236		
119A	P8	1	1.97899	1.97901		
120	P8	2	1.97524	1.97538	1.97549	1.9734 - Very unstable
89	P4	19	1.86533	1.86532		Flag 4
5019	Loop5	1	1.86416	1.86415		Insert came out very easily.
121A	P8	3	1.97232	1.97233		
116	P5	1	1.86409	1.86411		
73	P4	3	1.97362	1.97360		
38	P2	13	1.83229	1.83229		
75	P4	5	1.96498	1.96499		
74B	P4	4	1.96999	1.96998		
121B	P8	3	1.97227	1.97228		
74A	P4	4	1.96996	1.96998		
5020	Loop20	1	1.86268	1.86210		
21	LoopJF4	1	1.79713	1.79713		} Incorrect sample #s
19	LoopJF2	1	1.80300	1.80302		
20	LoopJF3	1	1.80840	1.80842		
18	LoopJF1	1	1.81448	1.81447		
53	P3	1	1.87212	1.87210		
24	P1	3	1.83098	1.83099		
72	P4	2	1.97363	1.97362		
610	P4	2	1.97263	1.97266		
605	P4		1.94949	1.94947		Final Standby Value:
DWR			1.97778	1.97777		

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2019-006</u>	Cast/Station Name: <u>Various</u>	Analysis Date (dd mmm yyyy): <u>17 07 2019</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+6018</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: _____	Batch #: _____
	Notes: _____	Batch Date: _____
		Bath Temperature: <u>24</u> °C
		Sample Temperature: <u>21.9</u> °C
		Room Temperature: <u>21.9</u> °C
		Analyst: <u>KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
119B	P8	1	1.9782910	1.97908		
613	P4	5	1.96446	1.96448		
611	P4	3	1.97282	1.97287		
5102	Loop P4	1	1.86919	1.86920		
612A	P4	4	1.96920	1.96919		
627	P4	19	1.86955	1.86956		
612B	P4	4	1.96920	1.96922		
614	P4	6	1.95943	1.95942		
628	P4		1.91584	1.91585		
357	P20	4	1.98250	1.98251		
318	P18	4	1.98107	1.98108		
378	P20		1.86477	1.86475		
355A	P20	2	1.98325	1.98324		
382	P20		1.94413	1.94412		
316	P18	2	1.98523	1.98326		
355B	P20	2	1.98325	1.98328	1.98328	
402A	P21	1	1.97861	1.97861		
360	P20	7	1.97450	1.97450		
356	P20	3	1.98325	1.98325		
362A	P20	9	1.96761	1.96761		Flushed x4
337A	P19	1	1.86258	1.86258		
319	P18	5	1.97894	1.97895		Toggle suppression
317A	P18	3	1.98249	1.98252		
317B	P18	3	1.98246	1.98248		Communication timed out
5059	Loop P19		1.86265	1.86264		Final Standby Value:
DWR			1.97987	1.97986		

Notes: _____

[illegible]

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2019-006</u>	Cast/Station Name: <u>Various</u>	Analysis Date (dd mmm yyyy): <u>18 07 2019</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24 + 6018</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: _____ After: _____ Notes: _____	K ₁₅ VALUE: <u>0.999</u> Batch #: _____ Batch Date: _____
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>21.7</u> °C Room Temperature: <u>21.7</u> °C Analyst: <u>JS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
5058	Loop 58 LQOP		1.86323	1.86325		Toggled Suppression
362B	P20		1.96757	1.96757		
340	P20		1.96373	1.96373		
359	P20		1.97891	1.97891		
358	P20		1.98129	1.98130		
377	P20		1.86243	1.86256	1.86256	Flushed x4 & Delete 1st read
513	P26		1.98328	1.98329		
361	P20		1.97144	1.97144		
DWR			1.97987	1.97987		On to next cage...
156	P12		1.86645	1.86644		Toggled suppression.
248	P14		1.86595	1.86597		
164A	P12		1.97821	1.7823		
166	P12		1.97153	1.97153		
122	P8		1.96783	1.96783	1.96783	flushed x4
161B	P12		1.98217	1.98216		
226	P13		1.86564	1.86567		flushed x4 & toggled sup.
163	P12		1.98108	1.98108		toggled suppression.
5027	loop P10		1.86391	1.86392		toggled suppression.
123	P8		1.96340	1.96316	1.96319	toggled supp. & delete 1st read.
206	P12		1.94788	1.94788		
145	P11		1.86425	1.86423		toggled supp. down.
164B	P12		1.97890	1.97892		toggled supp. up.
249	P14		1.86596	1.86596		toggled supp. down.
161A	P12		1.98209	1.98209		1" up.
162	P12		1.98198	1.98197		flushed x4
DWR			1.97986	1.97987		Final Standby Value: 24 + 6018

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

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Cruise ID: <u>2019-006</u>	Cast/Station Name: <u>Various</u>	Analysis Date (dd mmm yyyy): <u>18 07 2019</u>
Autosal Model: <u>84008</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24 + 6018</u>	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: <u>24</u> °C Sample Temperature: <u>21.9</u> °C Room Temperature: <u>21.9</u> °C Analyst: <u>JS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
141	P8		1.86420	1.86419		toggled supp. down.
167	P12		1.96677	1.96678		" " up
144	P10		1.86395	1.86395		" down
143	P9		1.86291	1.86291		flushed x4
5041	Loop...		1.86591	1.86590		label offset → can't see str.
182	P12		1.86605	1.86605		
165	P12		1.97420	1.97421		toggled supp. up.
184	P12		1.96282	1.96282		
DWR			1.97986	1.97985		Onto next cage.
5100	loop 100		1.86144	1.86144		
519	P26		1.96774	1.96775	1.96774	Got distracted - had to restart
473	P25		1.96745	1.96743		
571	P26		1.96393	1.96394		
534	P26		1.86677	1.86677		toggled supp. down
513	P26		1.98320	1.98351		" up.
489	P25		1.86624	1.86624		" down
5097	Loop 97		1.86204	1.86204		
553A?	P26		1.97854	1.97853		Dup. w/out A or B labels
675	P26		1.98108	1.98110		
579	P26		1.86935	1.86933		toggled Supp. down.
553B?	P26		1.97862	1.97864		Dup. w/out A or B labels
5099	Loop 99		1.86550	1.86550		Flushed x4
441	P35		1.86687	1.86687		
472	P25		1.97416	1.97418		
574	P26		1.98246	1.98244		
DWR			1.97992	1.97992		Final Standby Value: _____

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

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Cruise ID: <u>2019-006</u>	Cast/Station Name: <u>Various</u>	Analysis Date (dd mmm yyyy): <u>19 Jul 2019</u>
Autosal Model: <u>840015</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24 + 6018</u>	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: <u>24</u> °C Sample Temperature: <u>21.6</u> °C Room Temperature: <u>21.6</u> °C Analyst: _____

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
DWR			1.97991	1.97991		This read was earlier in analysis
553	P26		1.97851	1.97852		
518	P26		1.97144	1.97145		
512	P26		1.98370	1.98372		
575	P26		1.94390	1.94391		
5098	Loop 98		1.86580	1.86580		
471A	P25		1.97849	1.97854	1.97855	Deleted first read.
516	P26		1.97865	1.97866		
517	P26		1.97438	1.97438		
240	P14		1.94416	1.94416		
231B	P14		1.97877	1.97876		
228B	P14		1.98214	1.98216		
237	P14		1.95687	1.95687		
244	P14		1.92140	1.92140		
233	P14		1.97415	1.97416		
229B	P14		1.98103	1.98103		
246	P14		1.86651	1.86656	1.86656	Deleted first read.
247	P14		1.86679	1.86680		
235	P14		1.96719	1.96718		
230	P14		1.98014	1.98014		
227	P14		1.98257	1.98258		
239	P14		1.94612	1.94612		
241	P14		1.94365	1.94366		
231A	P14		1.97874	1.97875		
228A	P14		1.98212	1.98212		
DWR			1.97992	1.97993		Final Standby Value: <u>24 + 6017</u>

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2019-066</u>	Cast/Station Name: <u>Various</u>	Analysis Date (dd mmm yyyy): <u>18 Jul 2019</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24 + 6017</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>21.3</u> °C
		Room Temperature: <u>21.3</u> °C
		Analyst: <u>SS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
238	P14		1.94915	1.94915		
232	P14		1.97678	1.97675		
245	P14		1.88587	1.88587		
229A	P14		1.98092	1.98092		
243	P14		1.93849	1.93850		
234	P14		1.97086	1.97088		Flushed x2 between reads
236	P14		1.96379	1.96379		
242	P14		1.94215	1.94215		
402B	P21		1.97867	1.97867		
47HB	P25		1.97843	1.97844		
444	P22		1.86338	1.86339		
451	P24		1.97850	1.97850		
425	P22		1.98104	1.98103		
446	P23		1.86434	1.86435		
448	P24		1.98315	1.98315		
449A	P24		1.98225	1.98226		
423	P22		1.98334	1.98340	1.98333	1.98320 Took 4 readings
405	P21		1.96140	1.96142		
474	P25		1.96191	1.96192		
469	P24		1.86651	1.86651		
420	P21		1.86131	1.86131		
427	P22		1.97476	1.97478		
450	P24		1.98081	1.98081		
424A	P22		1.98249	1.98251		
452	P24		1.97436	1.97435		
DWR			1.97992	1.97992		Final Standby Value: <u>24 + 6017</u>
DWR			1.97993	1.97990		

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

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Cruise ID: <u>2019-006</u>	Cast/Station Name: <u>Various</u>	Analysis Date (dd mmm yyyy): <u>18 Jul 2019</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24 + 6017</u>	Ratio After Standardization: <u>24 + 6005</u>	

Cell Standardization (Daily)	Standardization Values:	Standard Info.	Bath Temperature: <u>24</u> °C
Conductivity must be ± 0.00001 compared to Standard	Before: <u>/</u>	K ₁₅ VALUE: <u>0.999</u>	Sample Temperature: <u>21.3</u> °C
	After: <u>/</u>	Batch #: <u>/</u>	Room Temperature: <u>21.3</u> °C
	Notes: <u>/</u>	Batch Date: <u>/</u>	Analyst: <u>/</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
403	P21		1.97388	1.97388		
424B	P22		1.98239	1.98237		
5070	Loop 23		1.86435	1.86435		
449B	P24		1.98229	1.98229		
5068	Loop 68		1.86279	1.86278		
404	P21		1.96714	1.96715		
426	P22		1.97875	1.97876		
255A	P16		1.98214	1.98216		
251	P15		1.86635	1.86635		
280(?)	P16		1.96316	1.96316		
314	P17		1.86465	1.86466		
326	P18		1.97710	1.97709		
250	P14		1.86583	1.86584		
260	P16		1.96680	1.96684	1.96685	
256	P16		1.98110	1.98109		
DWR			1.97880	1.97879		25 Jul 19 standby = 24 + 6005
254	P16		1.98294	1.98294		
294	P16		1.94419	1.94418		
5044	P15 loop		1.86620	1.86621		
321	P18		1.97453	1.97453		
253B	P16		1.98296	1.98295		
276	P16		1.86433	1.86452		
257	P16		1.97892	1.97893		
275	P16		1.86470	1.86469		
253A	P16		1.98307	1.98307		Final Standby Value:
DWR			1.97880	1.97880		<u>24 + 6005</u>

Notes: _____

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Notes: _____

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[illegible]

Version: 20 April 2016

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: 2019-006 labels			Cast/Station Name:			Analysis Date (dd mmm yyyy):			
117 SAL P6 5 m 19-006 Bot 1	118 SAL P7 5 m 19-006 Bot 1	5022 SAL LoopP7 LOOP 19-006 Bot 1	119 A SAL P8 2000 m 19-006 Bot 1	120 SAL P8 1500 m 19-006 Bot 2	89 Sal P4 5 m 19-006 Bot 19	5019 SAL LoopP5 5 m 19-006 Bot 1	121 A SAL P8 1250 m 19-006 Bot 3	116 SAL P5 5 m 19-006 Bot 1	73 Sal P4 1250 m 19-006 Bot 3
38 Sal P2 5 m 19-006 Bot 13	75 Sal P4 800 m 19-006 Bot 5	74 B Sal P4 1000 m 19-006 Bot 4	121 B SAL P8 1250 m 19-006 Bot 3	74 A Sal P4 1000 m 19-006 Bot 4	121 B SAL LoopJF4 LOOP 19-006 Bot 1	19 SAL LoopJF2 LOOP 19-006 Bot 1	20 SAL LoopJF3 LOOP 19-006 Bot 1	18 SAL LoopJF1 LOOP 19-006 Bot 1	
53 SAL P3 5 m 19-006 Bot 1	24 SAL P1 5 m 19-006 Bot 3	72 Sal P4 1250 m 19-006 Bot 2	623 SAL P4 1250 m 19-006 Bot 2	605 Sal P4 300 m 19-006 Bot	119 B SAL P8 2000 m 19-006 Bot 1	632 SAL P4 800 m 19-006 Bot 5	630 SAL P4 1250 m 19-006 Bot 3	5102 SAL LoopP4 LOOP 19-006 Bot 1	631 A SAL P4 1000 m 19-006 Bot 4
629 SAL P4 5 m 19-006 Bot 19	631 B SAL P4 1000 m 19-006 Bot 4	633 SAL P4 600 m 19-006 Bot 6	628 sal P4 50 m 19-006 Bot	357 Sal P20 3000 m 19-006 Bot 4	318 Sal P18 2500 m 19-006 Bot 4	378 Sal P20 50 m 19-006 Bot	355 A Sal P20 3500 m 19-006 Bot 2	382 Sal P20 300 m 19-006 Bot	316 Sal P18 3500 m 19-006 Bot 2
355 B Sal P20 3500 m 19-006 Bot 2	402 A Sal P21 2000 m 19-006 Bot 1	360 Sal P20 1500 m 19-006 Bot 7	356 Sal P20 3500 m 19-006 Bot	362 A Sal P20 1000 m 19-006 Bot 9	339 A SAL P19 5 m 19-006 Bot 1	319 Sal P18 2000 m 19-006 Bot 5	317 A Sal P18 3000 m 19-006 Bot 3	317 B Sal P18 3000 m 19-006 Bot 3	5059 SAL LoopP19 LOOP 19-006 Bot 1
5058 SAL Loop58 LOOP 19-006 Bot 1	362 B Sal P20 1000 m 19-006 Bot 9	340 Sal P20 800 m 19-006 Bot	359 Sal P20 2000 m 19-006 Bot 6	358 Sal P20 2500 m 19-006 Bot 5	377 Sal P20 5 m 19-006 Bot 24	513 Sal P26 3500 m 19-006 Bot 3	Final Standby Value:		
							361 Sal P20 1250 m 19-006 Bot 8	156 Sal P12 50 m 19-006 Bot	248 Sal P14 25 m 19-006 Bot 22

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2019-006 labels</u>			Cast/Station Name: _____			Analysis Date (dd mmm yyyy): _____			
231A Sal P14 2000 m 19-006 Bot 5	228A Sal P14 3000 m 19-006 Bot 2	238 Sal P14 400 m 19-006 Bot 12	232 Sal P14 1750 m 19-006 Bot 6	245 Sal P14 100 m 19-006 Bot 19	229A Sal P14 2500 m 19-006 Bot 3	243 Sal P14 150 m 19-006 Bot 17	234 Sal P14 1250 m 19-006 Bot 8	236 Sal P14 800 m 19-006 Bot 10	242 Sal P14 175 m 19-006 Bot 16
402B Sal P21 2000 m 19-006 Bot 1	471B Sal P25 2000 m 19-006 Bot 1	444 Sal P22 5 m 19-006 Bot 23	451 Sal P24 2000 m 19-006 Bot 5	425 Sal P22 2500 m 19-006 Bot 4	446 SAL P23 5 m 19-006 Bot 1	448 Sal P24 3500 m 19-006 Bot 2	449 Sal P24 3000 m 19-006 Bot 3	423 Sal P22 3500 m 19-006 Bot 2	405 Sal P21 750 m 19-006 Bot 4
474 Sal P25 750 m 19-006 Bot 4	469 Sal P24 5 m 19-006 Bot 23	420 Sal P21 5 m 19-006 Bot 19	427 Sal P22 1500 m 19-006 Bot 6	450 Sal P24 2500 m 19-006 Bot 4	424A Sal P22 3000 m 19-006 Bot 3	452 Sal P24 1500 m 19-006 Bot 6	403 Sal P21 1500 m 19-006 Bot 2	424B Sal P22 3000 m 19-006 Bot 3	5070 SAL LoopP23 LOOP 19-006 Bot 1
449B Sal P24 3000 m 19-006 Bot 3	5068 SAL Loop68 19-006 Bot 1	404 Sal P21 1000 m 19-006 Bot 3	426 Sal P22 2000 m 19-006 Bot 5	255 Sal P16 3000 m 19-006 Bot 4	251 SAL P15 5 m 19-006 Bot 1	204 Sal P16 800 m 19-006 Bot	314 SAL P17 5 m 19-006 Bot 1	320 Sal P15 1750 m 19-006 Bot 6	250 Sal P14 5 m 19-006 Bot 24
260 Sal P16 1000 m 19-006 Bot 9	256 Sal P16 2500 m 19-006 Bot 5	254 Sal P16 3500 m 19-006 Bot 3	294 Sal P16 300 m 19-006 Bot	5044 SAL P15 loop 5 m 19-006 Bot 1	321 Sal P18 1500 m 19-006 Bot 7	253B Sal P16 3500 m 19-006 Bot 2	276 Sal P16 50 m 19-006 Bot	257 Sal P16 2000 m 19-006 Bot 6	275 Sal P16 5 m 19-006 Bot 24
253A Sal P16 3500 m 19-006 Bot 2	338 Sal P18 5 m 19-006 Bot 24	255B Sal P16 3000 m 19-006 Bot 4	258 Sal P16 1500 m 19-006 Bot 7	5054 SAL Loop54 LOOP 19-006 Bot 1	5043 SAL Loop43 LOOP 19-006 Bot 1	259 Sal P16 1250 m 19-006 Bot 8	Final Standby Value: _____		