

## AUTOSAL ANALYSIS LOGSHEET

*K<sub>15</sub> × 2 = 1.99966*

Cruise ID: 2020-069 Cast/Station Name: Various Analysis Date (dd | mmm | yyyy): 14 | Sep | 2020

Autosal Model: 8400B Serial Number: 68572

Initial Standby Value: 24 + 6037 Ratio After Standardization: 24 + 6041

| Cell Standardization (Daily)                        | Standardization Values:        | Standard Info.                         | Bath Temperature: <u>24</u> °C   |
|-----------------------------------------------------|--------------------------------|----------------------------------------|----------------------------------|
| Conductivity must be ± 0.00001 compared to Standard | Before: <u>5.45</u>            | K <sub>15</sub> VALUE: 0.999 <u>83</u> | Sample Temperature: <u>22</u> °C |
|                                                     | After: <u>5.51</u>             | Batch #: <u>P162</u>                   | Room Temperature: <u>22</u> °C   |
|                                                     | Notes: <u>small adjustment</u> | Exp. Date: <u>16 April 2021</u>        | Analyst: <u>KS</u>               |

| Sample | Station Name   | Depth/Nisk# | Salinity 1         | Salinity 2     | Salinity 3 | Comments             |
|--------|----------------|-------------|--------------------|----------------|------------|----------------------|
| P162   | IAPSO standard |             | <del>1.99962</del> | <u>1.99965</u> |            | Accepted             |
| DWR    | P19            |             | 1.97873            | 1.97874        |            | 34.5817              |
| DWR    | P19            |             | 1.97873            | 1.97875        |            | 34.5818              |
| DWR    | P19            |             | 1.97873            | 1.97873        |            | 34.5818              |
| 686    | CH19           | 2           | 1.86717            | 1.86715        |            |                      |
| 718    | CH12           | 8           | 1.81852            | 1.81851        |            |                      |
| 712    | CH12           | 2           | 1.90849            | 1.90847        |            |                      |
| 5304   | Loop           |             | 0.96669            | 0.96668        |            |                      |
| 522    | HECS8          | 2           | 1.91552            | 1.91554        |            |                      |
| 1162   | GC60           | 6           | <del>0.13114</del> | 0.13113        | 0.13112    | -Screw cap loose     |
| 612    | CH25           | 15          | 1.48047            | 1.48111        | 1.4108     | ↳ very fresh         |
| 746    | CHAT2          | 8           | 1.83968            | 1.83969        |            |                      |
| 1136   | DEC15          | 1           | 0.83527            | 0.83526        |            |                      |
| 1147   | GC38           | 1           | 1.85805            | 1.85807        |            |                      |
| 568    | CH21           | 2           | 1.87760            | 1.87759        |            |                      |
| 526    | HECS8          | 6           | 1.84806            | 1.84807        |            |                      |
| 604    | CH25           | 7           | 1.84727            | 1.84729        |            |                      |
| 618    | CHAT1          | 5           | 1.87135            | 1.87133        |            |                      |
| 622    | CHAT1          | 9           | 1.44449            | 1.44450        |            |                      |
| 710    | CH17           | 8           | 1.48559            | 1.48560        |            |                      |
| 1160   | GC60           | 4           | 1.84022            | 1.84023        |            | -Screw cap loose     |
| 684    | CH26           | 8           | 1.38615            | 1.38612        |            |                      |
| 579    | CH21           | 13          | 1.43166            | 1.43167        |            |                      |
| 615    | CHAT1          | 2           | 1.87197            | 1.8790         |            |                      |
| 1144   | GC28           | 4           | 0.75685            | 0.75687        |            | Final Standby Value: |
| DWR    | P19            |             | <del>1.97869</del> | 1.97870        | 1.97870    |                      |

Notes: Cruise ID  
DWR = 2020-008 in P19 Sample ID: 265, 266, 267 depth = 2005 m  
Niskins: 1, 2, 3

## AUTOSAL ANALYSIS LOGSHEET

|                                                                                                                                              |                                               |                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Cruise ID: <u>2020-069</u>                                                                                                                   | Cast/Station Name: <u>Various</u>             | Analysis Date (dd   mmm   yyyy):<br><u>14   Sept.   2020</u>                                                                   |
| Autosal Model: <u>8400B</u>                                                                                                                  | Serial Number: <u>68572</u>                   |                                                                                                                                |
| Initial Standby Value: <u>24 + 6041</u>                                                                                                      | Ratio After Standardization: _____            |                                                                                                                                |
| <b>Cell Standardization (Daily)</b>                                                                                                          | <b>Standardization Values:</b>                | <b>Standard Info.</b>                                                                                                          |
| Conductivity must be $\pm 0.00001$<br>compared to Standard  | Before: _____<br>After: _____<br>Notes: _____ | K <sub>15</sub> VALUE: 0.999 _____<br>Batch #: _____<br>Batch Date: _____                                                      |
|                                                                                                                                              |                                               | Bath Temperature: <u>24</u> °C<br>Sample Temperature: <u>22.2</u> °C<br>Room Temperature: <u>22.1</u> °C<br>Analyst: <u>KS</u> |

| Sample | Station Name | Depth/Nisk# | Salinity 1 | Salinity 2 | Salinity 3 | Comments                                 |
|--------|--------------|-------------|------------|------------|------------|------------------------------------------|
| 1137   | DEC19        | 1           | 0.80448    | 0.80447    |            |                                          |
| 1133   | FOC 1        | 3           | 1.84213    | 1.84214    |            |                                          |
| 633    | CHAT 1       | 20          | 1.43222    | 1.43221    |            |                                          |
| 675    | PRH74        | 9           | 1.43937    | 1.43935    |            |                                          |
| 630    | CHAT 1       | 17          | 1.61140    | 1.61139    |            |                                          |
| 1159   | GC60         | 3           | 1.85516    | 1.85517    |            |                                          |
| 726    | CH11         | 2           | 1.90758    | 1.90759    |            |                                          |
| 695    | CH19         | 11          | 1.47674    | 1.47673    |            | → Insert felt quite loose when removing. |
| 605    | CH25         | 8           | 1.84808    | 1.84809    |            |                                          |
| 512    | DIX1         | 10          | 1.87459    | 1.87458    |            |                                          |
| 504    | DIX1         | 2           | 1.93951    | 1.93950    |            |                                          |
| 540    | CH14         | 7           | 1.84308    | 1.84309    |            |                                          |
| 626    | CHAT 1       | 13          | 1.79239    | 1.79239    |            |                                          |
| 1151   | GC44         | 3           | 1.84383    | 1.84384    |            |                                          |
| 1148   | GC38         | 2           | 0.48980    | 0.48981    |            |                                          |
| 740    | CHAT 2       | 2           | 1.88287    | 1.88288    |            |                                          |
| 1150   | GC44         | 2           | 1.86283    | 1.86282    |            |                                          |
| 628    | CHAT 1       | 15          | 1.74224    | 1.74225    |            |                                          |
| 573    | CH21         | 7           | 1.84633    | 1.84635    |            |                                          |
| 1154   | GC44         | 6           | 0.21757    | 0.21756    |            |                                          |
| 655    | MP55         | 13          | 1.57641    | 1.57642    |            |                                          |
| 632    | CHAT 1       | 19          | 1.47616    | 1.47617    |            |                                          |
| 658    | CH27         | 2           | 1.81920    | 1.81919    |            |                                          |
| 737    | CH11         | 13          | 1.55737    | 1.55736    |            |                                          |
| 723    | CH12         | 13          | 1.48276    | 1.48279    |            | Final Standby Value:                     |
| DWR    | P19          |             | 1.97870    | 1.97869    |            |                                          |

Notes: \_\_\_\_\_  
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## AUTOSAL ANALYSIS LOGSHEET

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K<sub>15</sub> x 2 = 1.99970

|                                                            |                                                                          |                                                                                                                               |
|------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Cruise ID: <u>2020-069</u>                                 | Cast/Station Name: <u>Various</u>                                        | Analysis Date (dd   mmm   yyyy):<br><u>15 Sept.   2020</u>                                                                    |
| Autosal Model: <u>8400B</u>                                | Serial Number: <u>68572</u>                                              |                                                                                                                               |
| Initial Standby Value: <u>24 + 6040</u>                    | Ratio After Standardization: _____                                       |                                                                                                                               |
| Cell Standardization (Daily)                               | Standardization Values:                                                  | Standard Info.                                                                                                                |
| Conductivity must be $\pm 0.00001$<br>compared to Standard | Before: <u>5.51</u><br>After: <u>5.51</u><br>Notes: <u>No adjustment</u> | K <sub>15</sub> VALUE: 0.999 <u>85</u><br>Batch #: <u>P163</u><br>Exp. Batch Date: <u>10 April 2022</u>                       |
|                                                            |                                                                          | Bath Temperature: <u>24</u> °C<br>Sample Temperature: <u>~22</u> °C<br>Room Temperature: <u>22.3</u> °C<br>Analyst: <u>KS</u> |

| Sample | Station Name | Depth/Nisk# | Salinity 1         | Salinity 2 | Salinity 3 | Comments                                        |
|--------|--------------|-------------|--------------------|------------|------------|-------------------------------------------------|
| 732    | CH11         | 8           | 1.81391            | 1.81392    |            |                                                 |
| 532    | HECS8        | 12          | 1.66584            | 1.66585    |            |                                                 |
| 611    | CH25         | 14          | 1.48478            | 1.48476    |            |                                                 |
| 620    | CHAT1        | 7           | 1.86006            | 1.86005    |            |                                                 |
| 1156   | GC51         | 2           | 0.11832            | 0.11831    |            |                                                 |
| 1132   | FOCI         | 2           | <del>1.90036</del> | 1.90045    | 1.90044    | - Screw cap was broken but seemed to be holding |
| 624    | CHAT1        | 11          | 1.81389            | 1.81386    |            |                                                 |
| 668    | PRH74        | 2           | 1.81287            | 1.81287    |            |                                                 |
| 1142   | GC28         | 2           | 1.87387            | 1.87386    |            |                                                 |
| 1128   | DOUG11       | 5           | 0.92620            | 0.92620    |            |                                                 |
| 1152   | GC44         | 4           | 0.21414            | 0.21413    |            |                                                 |
| 1139   | DEC26        | 2           | 0.86807            | 0.86808    |            |                                                 |
| 91141  | GC31         | 1           | 0.73233            | 0.73233    |            |                                                 |
| 1155   | GC51         | 1           | 1.85786            | 1.85790    |            |                                                 |
| 689    | CH19         | 5           | 1.84094            | 1.84096    |            | - screw cap loose                               |
| 644    | MP55         | 2           | 1.86447            | 1.86448    |            |                                                 |
| 1161   | GC60         | 5           | 0.15576            | 0.15577    |            |                                                 |
| 861    | CHAT3        | 7           | 1.84739            | 1.84740    |            |                                                 |
| 535    | CH14         | 2           | 1.88346            | 1.88346    |            |                                                 |
| 519    | DIX1         | 17          | 1.77666            | 1.77665    |            |                                                 |
| 753    | CHHT2        | 15          | 1.45543            | 1.45542    |            |                                                 |
| 803    | CHAT3        | 9           | 1.82378            | 1.82379    |            |                                                 |
| 599    | CH25         | 2           | <del>1.87444</del> | 1.87156    | 1.87155    |                                                 |
| 649    | MP55         | 7           | 1.83663            | 1.83662    |            |                                                 |
| 501    | DIX2         | 16          | 1.63635            | 1.63636    |            | Final Standby Value:                            |
| DWR    | P19          |             | 1.97874            | 1.97875    |            |                                                 |

Notes: \_\_\_\_\_

Accepted: \_\_\_\_\_

Run as sample: \_\_\_\_\_

stated sal: 34.994

IAPSO standard P163: 1.99969

1.99970 1.99969 measured sal: 34.9943

DWR ran before today's run: 1.97874 1.97873

## AUTOSAL ANALYSIS LOGSHEET

|                                                            |                                               |                                                                                                                                |
|------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Cruise ID: <u>2020-069</u>                                 | Cast/Station Name: <u>Various</u>             | Analysis Date (dd   mmm   yyyy):<br><u>15   Sept   2020</u>                                                                    |
| Autosal Model: <u>8400B</u>                                | Serial Number: <u>68572</u>                   |                                                                                                                                |
| Initial Standby Value: <u>2476041</u>                      | Ratio After Standardization: _____            |                                                                                                                                |
| Cell Standardization (Daily)                               | Standardization Values:                       | Standard Info.                                                                                                                 |
| Conductivity must be $\pm 0.00001$<br>compared to Standard | Before: _____<br>After: _____<br>Notes: _____ | K <sub>15</sub> VALUE: <u>0.999</u><br>Batch #: _____<br>Batch Date: _____                                                     |
|                                                            |                                               | Bath Temperature: <u>24</u> °C<br>Sample Temperature: <u>22.5</u> °C<br>Room Temperature: <u>22.5</u> °C<br>Analyst: <u>KS</u> |

| Sample | Station Name | Depth/Nisk# | Salinity 1 | Salinity 2 | Salinity 3 | Comments                |
|--------|--------------|-------------|------------|------------|------------|-------------------------|
| 665    | CH27         | 9           | 1.49074    | 1.49075    |            |                         |
| 1143   | GC28         | 3           | 1.84119    | 1.84118    |            |                         |
| 766    | CH16         | 12          | 1.59812    | 1.59811    |            |                         |
| 1134   | FOCI         | 4           | 0.92398    | 0.92397    |            |                         |
| 285    | MT05         | 15          | 1.82498    | 1.82498    | 1.82499    |                         |
| 248    | MS08b        | 22          | 1.82630    | 1.82629    |            |                         |
| 759    | CH16         | 5           | 1.89026    | 1.89032    | 1.89039    | 1.89033 - A bit erratic |
| 764    | CH16         | 10          | 1.79010    | 1.79009    |            |                         |
| 314    | JPS7         | 13          | 1.83576    | 1.83575    |            |                         |
| 272    | MT05         | 2           | 1.94886    | 1.94886    |            |                         |
| 186    | C101         | 7           | 1.86192    | 1.86191    |            |                         |
| 761    | CH16         | 7           | 1.84907    | 1.84909    |            |                         |
| 123    | CS01         | 17          | 1.86506    | 1.86505    |            |                         |
| 817    | CH08         | 8           | 1.81730    | 1.81729    |            |                         |
| 1036   | HECS7        | 13          | 1.69063    | 1.69064    |            |                         |
| 971    | GBS2         | 18          | 0.85313    | 0.85312    |            |                         |
| 201    | MS01         | 8           | 1.85757    | 1.85765    | 1.85767    |                         |
| 1025   | HECS7        | 2           | 1.91201    | 1.91200    |            |                         |
| 1007   | HA2          | 16          | 0.47976    | 0.47974    |            | - 1.80938               |
| 1016   | HA4          | 8           | 1.80944    | 1.80932    | 1.80938    | - screw cap was loose   |
| 219    | MS04         | 11          | 1.84934    | 1.84933    |            | - not enough rinsing?   |
| 796    | CHAT3        | 2           | 1.90947    | 1.90946    |            |                         |
| 984    | OB55         | 12          | 1.83029    | 1.83030    |            |                         |
| 822    | CH08         | 13          | 1.43510    | 1.43512    |            |                         |
| 40     | CS09         | 2           | 1.94504    | 1.94507    |            | Final Standby Value:    |
| DWR    | PI9          |             | 1.97874    | 1.97873    |            |                         |

Notes: \_\_\_\_\_



## AUTOSAL ANALYSIS LOGSHEET

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|                                                                                                           |                                                                                             |                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Cruise ID: <u>2020-069</u>                                                                                | Cast/Station Name: <u>Various</u>                                                           | Analysis Date (dd   mmm   yyyy):<br><u>15   Sept.   2020</u>                                                                               |
| Autosal Model: <u>8400B</u>                                                                               | Serial Number: <u>63572</u>                                                                 |                                                                                                                                            |
| Initial Standby Value: <u>2476041</u>                                                                     | Ratio After Standardization: _____                                                          |                                                                                                                                            |
| <b>Cell Standardization (Daily)</b><br><br>Conductivity must be $\pm 0.00001$<br><br>compared to Standard | <b>Standardization Values:</b><br><br>Before: _____<br><br>After: _____<br><br>Notes: _____ | <b>Standard Info.</b><br><br>K <sub>15</sub> VALUE: <u>0.999</u><br><br>Batch #: _____<br><br>Batch Date: _____                            |
|                                                                                                           |                                                                                             | Bath Temperature: <u>24</u> °C<br><br>Sample Temperature: <u>22.5</u> °C<br><br>Room Temperature: <u>22.4</u> °C<br><br>Analyst: <u>KS</u> |

| Sample | Station Name | Depth/Nisk# | Salinity 1         | Salinity 2         | Salinity 3 | Comments                |
|--------|--------------|-------------|--------------------|--------------------|------------|-------------------------|
| 1010   | HA4          | 2           | 1.84566            | 1.84563            |            |                         |
| 1030   | HECS7        | 7           | 1.85643            | 1.85642            |            |                         |
| 760    | CH16         | 6           | 1.87072            | 1.87071            |            |                         |
| 839    | CH05         | 8           | 1.82803            | 1.82504            |            |                         |
| 147    | SCOTS2       | 2           | 1.94849            | 1.94850            |            |                         |
| 317    | JPS4         | 2           | 1.91435            | 1.91435            |            |                         |
| 153    | SCOTS2       | 10          | 1.87778            | 1.87779            |            |                         |
| 1052   | OGCH46       | 2           | 1.84368            | 1.84370            |            |                         |
| 64     | CS06         | 11          | 1.77398            | 1.77397            |            |                         |
| 46     | CS09         | 8           | 1.85424            | 1.85425            |            |                         |
| 965    | OBS2         | 12          | 1.84370            | 1.84369            |            |                         |
| 251    | MT11b        | 2           | 1.96612            | 1.96611            |            |                         |
| 139    | C104         | 9           | 1.86295            | 1.86296            |            |                         |
| 99     | C108         | 16          | 1.86711            | 1.86710            |            |                         |
| 802    | CHAT3        | 8           | 1.83811            | 1.838              |            |                         |
| 228    | MS08b        | 2           | 1.97942            | 1.97940            |            | -Insert was leaking     |
| 758    | CH16         | 4           | 1.89816            | 1.89815            |            | when inverting sample   |
| 85     | C108         | 2           | 1.97981            | 1.97979            |            | ↳ Was not tight         |
| 1039   | HECS4        | 2           | 1.91328            | 1.91329            |            | Fitting.                |
| 1001   | HAZ          | 10          | 1.81315            | 1.81316            |            |                         |
| 166    | HAK1         | 2           | 1.94250            | 1.94251            |            | -screw cap loose insert |
| 55     | CS06         | 2           | 1.87993            | 1.87992            |            | not in completely       |
| 970    | OBS2         | 0m          | <del>0.92889</del> | <del>0.92880</del> | 0.92871    | 0.92873                 |
| 195    | MS01         | 2           | <del>1.93616</del> | <del>1.93623</del> | 1.93624    |                         |
| 765    | CH16         | 16          | 1.70298            | 1.70295            |            | Final Standby Value:    |
| DWR    | PI9          |             | 1.97871            | 1.97872            |            |                         |

Notes: \_\_\_\_\_

## AUTOSAL ANALYSIS LOGSHEET

|                                                                                                                                                                                         |                                                                                     |                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Cruise ID: <u>2020-069</u>                                                                                                                                                              | Cast/Station Name: <u>Various</u>                                                   | Analysis Date (dd   mmm   yyyy):<br><u>15   Sept   2020</u>                                                                     |
| Autosal Model: <u>8400B</u>                                                                                                                                                             | Serial Number: <u>68572</u>                                                         |                                                                                                                                 |
| Initial Standby Value: <u>24 + 6041</u>                                                                                                                                                 | Ratio After Standardization: _____                                                  |                                                                                                                                 |
| <b>Cell Standardization (Daily)</b><br><br>Conductivity must be $\pm 0.00001$<br>compared to Standard  | <b>Standardization Values:</b><br><br>Before: _____<br>After: _____<br>Notes: _____ | <b>Standard Info.</b><br><br>K <sub>15</sub> VALUE: 0.999 _____<br>Batch #: _____<br>Batch Date: _____                          |
|                                                                                                                                                                                         |                                                                                     | Bath Temperature: <u>24</u> °C<br>Sample Temperature: <u>~22.5</u> °C<br>Room Temperature: <u>22.6</u> °C<br>Analyst: <u>KS</u> |

| Sample | Station Name | Depth/Nisk# | Salinity 1         | Salinity 2 | Salinity 3 | Comments                   |
|--------|--------------|-------------|--------------------|------------|------------|----------------------------|
| 767    | CH16         | 13          | 1.51062            | 1.51061    |            |                            |
| 263    | MT11b        | 14          | 1.87336            | 1.87338    |            |                            |
| 833    | CH05         | 2           | 1.90595            | 1.90596    |            | - Screw cap was loose      |
| 294    | SRN1         | 8           | 1.84931            | 1.84932    |            |                            |
| 279    | MT05         | 9           | 1.87134            | 1.87133    |            |                            |
| 308    | JPS7         | 7           | 1.87277            | 1.87276    |            |                            |
| 1022   | HA4          | 14          | 0.62725            | 0.62724    |            |                            |
| 52     | CS09         | 14          | 1.76930            | 1.76933    |            |                            |
| 800    | CHAT3        | 6           | 1.85001            | 1.85003    |            |                            |
| 181    | C101         | 2           | 1.94603            | 1.94602    |            |                            |
| 129    | CS01         | 23          | 1.84594            | 1.84593    |            |                            |
| 162    | SCOTTS2      | 17          | 1.83713            | 1.83712    |            |                            |
| 1076   | GrC36        | 1           | 1.44696            | 1.44697    |            |                            |
| 955    | OB52         | 2           | <del>1.88088</del> | 1.88094    | 1.88093    |                            |
| 1043   | HECS4        | 6           | 1.84703            | 1.84704    |            |                            |
| 755    | CH16         | 1           | 1.89856            | 1.89855    |            |                            |
| 763    | CH16         | 9           | 1.81490            | 1.81489    |            |                            |
| 808    | CHAT3        | 14          | 1.43443            | 1.43443    |            |                            |
| 897    | PI4          | 2           | 1.91408            | 1.91410    |            |                            |
| 109    | CS01         | 3           | 1.97945            | 1.97946    |            |                            |
| 916    | KH           | 2           | 1.84483            | 1.84482    |            |                            |
| 300    | SRN1         | 14          | 1.79962            | 1.79963    |            |                            |
| 207    | MS01         | 14          | 1.71744            | 1.71741    |            |                            |
| 242    | MS08b        | 16          | 1.86978            | 1.86979    |            | screw cap base             |
| 844    | CH05         | 13          | 1.24705            | 1.24704    |            | Final Standby Value: _____ |
| DWR    | PI9          |             | 1.97871            | 1.97873    |            |                            |

Notes: \_\_\_\_\_

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## AUTOSAL ANALYSIS LOGSHEET

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|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------|
| Cruise ID: <u>2020-069</u>                                                                                                                | Cast/Station Name: <u>Various</u>  | Analysis Date (dd   mmm   yyyy): <u>15   Sept.   2020</u> |
| Autosal Model: <u>8400B</u>                                                                                                               | Serial Number: <u>68572</u>        |                                                           |
| Initial Standby Value: <u>24+6041</u>                                                                                                     | Ratio After Standardization: _____ |                                                           |
| Cell Standardization (Daily)                                                                                                              | Standardization Values:            | Standard Info.                                            |
| Conductivity must be $\pm 0.00001$ compared to Standard  | Before: _____                      | K <sub>15</sub> VALUE: <u>0.999</u>                       |
|                                                                                                                                           | After: _____                       | Batch #: _____                                            |
|                                                                                                                                           | Notes: _____                       | Batch Date: _____                                         |
|                                                                                                                                           |                                    | Bath Temperature: <u>24</u> °C                            |
|                                                                                                                                           |                                    | Sample Temperature: <u>22.4</u> °C                        |
|                                                                                                                                           |                                    | Room Temperature: <u>22.4</u> °C                          |
|                                                                                                                                           |                                    | Analyst: <u>KS</u>                                        |

| Sample | Station Name | Depth/Nisk# | Salinity 1         | Salinity 2 | Salinity 3 | Comments             |
|--------|--------------|-------------|--------------------|------------|------------|----------------------|
| 210    | MS04         | 2           | 1.94950            | 1.94951    |            |                      |
| 288    | SRN1         | 2           | 1.94546            | 1.94545    |            |                      |
| 940    | P17          | 1           | <del>1.90894</del> | 1.90899    | 1.908900   |                      |
| 1049   | HECS4        | 12          | 1.79887            | 1.79891    |            |                      |
| 132    | C104         | 2           | 1.94768            | 1.94766    |            |                      |
| 269    | MT11b        | 20          | 1.85571            | 1.85570    |            |                      |
| 171    | HAK1         | 7           | <del>1.85576</del> | 1.85248    | 1.85249    |                      |
| 58     | CS06         | 5           | 1.85255            | 1.85254    |            |                      |
| 192    | C101         | 13          | 1.67806            | 1.67804    |            |                      |
| 225    | MS04         | 17          | 1.82142            | 1.82143    |            |                      |
| 993    | HAZ          | 2           | 1.85122            | 1.85123    |            |                      |
| 1      | AI           | 1           | 1.95271            | 1.95272    |            |                      |
| 1114   | DOUG6        | 4           | 1.84704            | 1.84703    |            |                      |
| 178    | HAK1         | 14          | 1.70416            | 1.70415    |            |                      |
| 105    | C108         | 22          | 1.84631            | 1.84629    |            |                      |
| 885    | PI1          | 13          | 1.84548            | 1.84547    |            |                      |
| 145    | C104         | 15          | 1.82296            | 1.82295    |            |                      |
| 303    | JPS7         | 2           | 1.89704            | 1.89705    |            |                      |
| 990    | OB55         | 18          | 0.90890            | 0.90889    |            |                      |
| 1133   | DOUG2        | 2           | 0.46098            | 0.46097    |            |                      |
| 859    | CH02         | 2           | <del>1.91572</del> | 1.91578    | 1.91580    |                      |
| 435    | DIX5         | 2           | 1.94750            | 1.94749    |            |                      |
| 936    | KH3          | 9           | 0.49840            | 0.4838     |            |                      |
| 949    | PORT1        | 8           | 0.45125            | 0.45126    |            |                      |
| 912    | PI4          | 17          | 0.74510            | 0.74512    |            | Final Standby Value: |
| DWR    | PI9          |             | 1.97873            | 1.97873    |            |                      |

Notes: \_\_\_\_\_

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## AUTOSAL ANALYSIS LOGSHEET

|                                                            |                                                                          |                                                                                                                              |
|------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Cruise ID: <u>2020-069</u>                                 | Cast/Station Name: <u>Various</u>                                        | Analysis Date (dd   mmm   yyyy):<br><u>16   Sept.   2020</u>                                                                 |
| Autosal Model: <u>8400B</u>                                | Serial Number: <u>68572</u>                                              |                                                                                                                              |
| Initial Standby Value: <u>24+6041</u>                      | Ratio After Standardization: _____                                       |                                                                                                                              |
| Cell Standardization (Daily)                               | Standardization Values:                                                  | Standard Info.                                                                                                               |
| Conductivity must be $\pm 0.00001$<br>compared to Standard | Before: <u>5.51</u><br>After: <u>5.51</u><br>Notes: <u>No adjustment</u> | K <sub>15</sub> VALUE: 0.999 <u>85</u><br>Batch #: <u>P163</u><br>Exp. Date: <u>10 April 2022</u>                            |
|                                                            |                                                                          | Bath Temperature: <u>24</u> °C<br>Sample Temperature: <u>22</u> °C<br>Room Temperature: <u>22.0</u> °C<br>Analyst: <u>KS</u> |

| Sample | Station Name | Depth/Nisk# | Salinity 1 | Salinity 2 | Salinity 3 | Comments              |
|--------|--------------|-------------|------------|------------|------------|-----------------------|
| 444    | DIX5         | 11          | 1.86905    | 1.86904    |            |                       |
| 332    | JPS4         | 17          | 1.85174    | 1.85173    |            |                       |
| 1095   | DOUG16       | 2           | 1.89924    | 1.89923    |            |                       |
| 1093   | DOUG126      | 1           | 1.03045    | 1.03045    |            |                       |
| 1057   | OGCH46       | 7           | 1.82817    | 1.82822    | 1.828245   | 1.82826               |
| 1096   | DOUG16       | 3           | 1.85277    | 1.85280    |            |                       |
| 425    | Q17          | 2           | 1.85794    | 1.85795    |            |                       |
| 366    | HG4          | 2           | 1.98219    | 1.98218    |            |                       |
| 907    | P14          | 12          | 1.84317    | 1.84318    |            |                       |
| 1121   | DOUG4        | 4           | 0.66237    | 0.66237    |            |                       |
| 1063   | OGCH46       | 13          | 1.52757    | 1.52758    |            |                       |
| 1085   | DOUG45       | 3           | 1.85325    | 1.85325    |            |                       |
| 1080   | GRC1         | 1           | 1.53622    | 1.53634    | 1.53632    |                       |
| 974    | OBS5         | 2           | 1.87840    | 1.87842    |            |                       |
| 868    | CH02         | 11          | 1.90116    | 1.90117    |            |                       |
| 807    | CHAT3        | 13          | 1.42333    | 1.42332    |            |                       |
| 1207   | SC69         | 12          | 1.85297    | 1.85298    |            | - Screw cap was loose |
| 1221   | HEC1         | 7           | 1.85474    | 1.85475    |            |                       |
| 11APSO | P163         | standard    | 1.99968    | 1.99969    | - Accept   | - Ran @ start of day. |
| 11DWR  | P19          |             | 1.97904    | 1.97903    |            | - followed by this    |
| 927    | KH1          | 13          | 0.69098    | 0.69098    |            |                       |
| 1194   | SC61         | 18          | 1.49527    | 1.49528    |            |                       |
| 5377   | Loop         |             | 1.80177    | 1.80177    |            |                       |
| 1110   | DOUG8        | 1           | 0.81784    | 0.81782    |            |                       |
| 1168   | GC74         | 3           | 1.84984    | 1.84981    |            | Final Standby Value:  |
| DWR    | P19          |             | 1.97902    | 1.97900    |            |                       |

Notes: 2. DWR P19 1.97904 1.97902 } surprisingly elevated relative to  
 3. DWR P19 1.97903 1.97903 } yesterday  
 4. P163 as sample 1.99970 1.99971 34.9942 vs. 34.994



## AUTOSAL ANALYSIS LOGSHEET

|                                                         |                                               |                                                                                                                               |
|---------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Cruise ID: <u>84003 2020-069</u>                        | Cast/Station Name: <u>Various</u>             | Analysis Date (dd   mmm   yyyy): <u>16   Sept   2020</u>                                                                      |
| Autosal Model: <u>84003</u>                             | Serial Number: <u>68572</u>                   |                                                                                                                               |
| Initial Standby Value: <u>24 + 6041</u>                 | Ratio After Standardization: _____            |                                                                                                                               |
| Cell Standardization (Daily)                            | Standardization Values:                       | Standard Info.                                                                                                                |
| Conductivity must be $\pm 0.00001$ compared to Standard | Before: _____<br>After: _____<br>Notes: _____ | K <sub>15</sub> VALUE: <u>0.999</u><br>Batch #: _____<br>Batch Date: _____                                                    |
|                                                         |                                               | Bath Temperature: <u>24</u> °C<br>Sample Temperature: <u>~22</u> °C<br>Room Temperature: <u>22.9</u> °C<br>Analyst: <u>KS</u> |

| Sample | Station Name | Depth/Nisk#   | Salinity 1 | Salinity 2 | Salinity 3 | Comments              |
|--------|--------------|---------------|------------|------------|------------|-----------------------|
| 495    | DIX2         | 10            | 1.86260    | 1.86259    |            |                       |
| 360    | JPN3         | 13            | 1.84390    | 1.84391    |            |                       |
| 811    | CH08         | 2             | 1.90593    | 1.90594    |            |                       |
| 1227   | HEC1         | 13            | 1.83686    | 1.83687    |            |                       |
| 1112   | DOUG66       | 2             | 1.89624    | 1.89624    |            |                       |
| 5404   | Loop         |               | 1.29888    | 1.29888    |            | - Screw cap was loose |
| 1089   | DOUG40       | 1             | 1.14065    | 1.14064    |            |                       |
| 416    | Q21          | 14            | 1.86539    | 1.86540    |            |                       |
| 466    | DIX4         | 15            | 1.79191    | 1.79190    |            |                       |
| 1188   | SC61         | 12            | 1.85155    | 1.85153    |            |                       |
| 1216   | HEC1         | 2             | 1.92559    | 1.92558    |            |                       |
| 941    | P17          | 2             | 1.02054    | 1.02051    |            |                       |
| 1213   | SC69         | 18            | 1.59292    | 1.59293    |            |                       |
| 1120   | KIT1         | 3             | 1.88953    | 1.88952    |            |                       |
| 484    | DIX3         | 17            | 1.76782    | 1.76781    |            |                       |
| 1116   | DOUG6        | 6             | 0.52253    | 0.52251    |            |                       |
| 1176   | UC31         | 1             | 1.31827    | 1.31834    | 1.31836    |                       |
| 422    | Q21          | 20            | 1.85203    | 1.85205    |            |                       |
| 920    | KH1          | 6             | 1.82569    | 1.82568    |            |                       |
| 857    | CH03         | 1             | 1.50350    | 1.50352    |            |                       |
| 938    | P16          | 1             | 1.91043    | 1.91044    |            |                       |
| 873    | CH02         | 16            | 1.12434    | 1.12436    |            |                       |
| 1158   | GC60         | 2             | 1.85738    | 1.85740    |            |                       |
| 432    | Q17          | 9             | 1.84180    | 1.84181    |            |                       |
| 1087   | DOUG45       | 5             | 1.52631    | 1.52632    |            | Final Standby Value:  |
| DWR    | P19          | <del>19</del> | 1.97899    | 1.97899    |            |                       |

Notes: \_\_\_\_\_

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## AUTOSAL ANALYSIS LOGSHEET

|                                                                                                                                              |                                                        |                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Cruise ID: <u>2020-069</u>                                                                                                                   | Cast/Station Name: <u>Various</u>                      | Analysis Date (dd   mmm   yyyy):<br><u>16   Sep   2020</u>                                                                     |
| Autosal Model: <u>8400B</u>                                                                                                                  | Serial Number: <u>63572</u>                            |                                                                                                                                |
| Initial Standby Value: <u>24+6041</u>                                                                                                        | Ratio After Standardization: _____                     |                                                                                                                                |
| Cell Standardization (Daily)                                                                                                                 | Standardization Values:                                | Standard Info.                                                                                                                 |
| Conductivity must be $\pm 0.00001$<br>compared to Standard  | Before: <u>/</u><br>After: <u>/</u><br>Notes: <u>/</u> | K <sub>15</sub> VALUE: <u>0.999</u><br>Batch #: <u>/</u><br>Batch Date: <u>/</u>                                               |
|                                                                                                                                              |                                                        | Bath Temperature: <u>24</u> °C<br>Sample Temperature: <u>22.5</u> °C<br>Room Temperature: <u>22.6</u> °C<br>Analyst: <u>KS</u> |

| Sample | Station Name | Depth/Nisk# | Salinity 1         | Salinity 2         | Salinity 3 | Comments                  |
|--------|--------------|-------------|--------------------|--------------------|------------|---------------------------|
| 1130   | KIT1         | 13          | 0.48951            | 0.48949            |            |                           |
| 877    | PI1          | 2           | 1.91501            | 1.91504            |            |                           |
| 1165   | GC68         | 2           | 0.12232            | 0.12231            |            |                           |
| 952    | PORT2        | 1           | 1.89985            | 1.89986            |            |                           |
| 1197   | SC69         | 2           | 1.91397            | 1.91396            |            |                           |
| 5350   | Loop         |             | 1.81165            | 1.81167            |            |                           |
| 1173   | KITLOPE      | 1           | 0.01602            | 0.01599            |            | - Sample very cloudy.     |
| 1167   | GC74         | 2           | <del>1.85333</del> | <del>1.85339</del> | 1.85342    | 1.85343                   |
| 1091   | DOUG31       | 2           | 1.02385            | 1.02386            |            |                           |
| 1171   | GC74         | 6           | 0.05555            | 0.05552            |            | - Insert leaking slightly |
| 450    | DIX5         | 17          | 1.84625            | 1.84628            |            |                           |
| 1126   | DOUG11       | 3           | 1.88993            | 1.88992            |            |                           |
| 1113   | DOUG6        | 3           | 1.89129            | 1.89131            |            |                           |
| 404    | Q21          | 2           | 1.96809            | 1.96808            |            |                           |
| 1097   | DOUG16       | 4           | 0.85038            | 0.85035            |            |                           |
| 1132   | DOUG2        | 1           | 1.88818            | 1.88820            |            |                           |
| 346    | JPS1         | 13          | 1.82691            | 1.82692            |            |                           |
| 354    | JPN3         | 7           | <del>1.84351</del> | 1.84365            | 1.84366    |                           |
| 929    | KH3          | 2           | 1.82388            | 1.82383            |            |                           |
| 487    | DIX2         | 2           | 1.94300            | 1.94301            |            |                           |
| 1125   | DOUG11       | 2           | 1.89796            | 1.89797            |            |                           |
| 939    | PI6          | 2           | 0.93051            | 0.93049            |            |                           |
| 469    | DIX3         | 2           | 1.94570            | 1.94571            |            |                           |
| 340    | JPS1         | 7           | 1.85146            | 1.85147            |            |                           |
| 1178   | SC61         | 2           | 1.91088            | 1.91089            |            | Final Standby Value:      |
| DWR    | PI9          |             | 1.97878            | 1.97897            |            |                           |

Notes: \_\_\_\_\_

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|----------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------|--|----------------------------------------|--|
| Cruise ID: <u>2020-069</u>                                                                                                                   |  | Cast/Station Name: <u>Various</u>  |  | Analysis Date (dd   mmm   yyyy):       |  |
| Autosal Model: <u>8400B</u>                                                                                                                  |  | Serial Number: <u>68572</u>        |  | <u>16</u>   <u>Sept.</u>   <u>2020</u> |  |
| Initial Standby Value: <u>2476041</u>                                                                                                        |  | Ratio After Standardization: _____ |  |                                        |  |
| <b>Cell Standardization (Daily)</b>                                                                                                          |  | <b>Standardization Values:</b>     |  | <b>Standard Info.</b>                  |  |
| Conductivity must be $\pm 0.00001$<br>compared to Standard  |  | Before: _____                      |  | K <sub>15</sub> VALUE: <u>0.999</u>    |  |
|                                                                                                                                              |  | After: _____                       |  | Batch #: _____                         |  |
|                                                                                                                                              |  | Notes: _____                       |  | Batch Date: _____                      |  |
|                                                                                                                                              |  |                                    |  | Bath Temperature: <u>24</u> °C         |  |
|                                                                                                                                              |  |                                    |  | Sample Temperature: <u>22.5</u> °C     |  |
|                                                                                                                                              |  |                                    |  | Room Temperature: <u>22.4</u> °C       |  |
|                                                                                                                                              |  |                                    |  | Analyst: <u>KS</u>                     |  |

[illegible]

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2020-069 Labels

10F4

## Water Properties Group

| 686      | 718      | 712      | 5304     | 522      | 1162     | 612      | 746      | 1136     | 10F4 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | 10F4 |
| CH19     | CH12     | CH12     | at       | HECS8    | GC60     | CH25     | Chat2    | DEC15    | 10F4 |
| 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 10F4 |
| b-5 m    | 30 m     | b-5 m    | Loop     | b-5 m    | 0 m      | 0 m      | 50 m     | 0 m      | 10F4 |
| bot 2    | bot 8    | bot 2    | Loop     | bot 2    | bot 6    | bot 15   | bot 8    | bot 1    | 10F4 |
| 1147     | 568      | 526      | 604      | 618      | 622      | 710      | 1160     | 684      | 10F4 |
| SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | 10F4 |
| GC38     | CH21     | HECS8    | CH25     | CHAT1    | CHAT1    | CH17     | GC60     | CH26     | 10F4 |
| 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 10F4 |
| mid m    | b-5 m    | 50 m     | 50 m     | 100 m    | 50 m     | 0 m      | 50 m     | 0 m      | 10F4 |
| bot 1    | bot 2    | bot 6    | bot 7    | bot 5    | bot 9    | bot 8    | bot 4    | bot 8    | 10F4 |
| 579      | 615      | 1144     | 1137     | 1133     | 633      | 675      | 630      | 1159     | 10F4 |
| SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | 10F4 |
| CH21     | CHAT1    | GC28     | DEC19    | FOC1     | CHAT1    | PRH74    | CHAT1    | GC60     | 10F4 |
| 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 10F4 |
| 0 m      | b-5 m    | 0 m      | 0 m      | 50 m     | 0 m      | 0 m      | 5 m      | mid m    | 10F4 |
| bot 13   | bot 2    | bot 4    | bot 1    | bot 3    | bot 20   | bot 9    | bot 17   | bot 3    | 10F4 |
| 726      | 695      | 605      | 512      | 504      | 540      | 626      | 1151     | 1148     | 10F4 |
| SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | 10F4 |
| CH11     | CH19     | CH25     | Dix1     | Dix1     | CH14     | CHAT1    | GC44     | GC38     | 10F4 |
| 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 10F4 |
| b-5 m    | 0 m      | 50 m     | 50 m     | b-5 m    | 50 m     | 20 m     | 50 m     | 0 m      | 10F4 |
| bot 2    | bot 11   | bot 8    | bot 10   | bot 2    | bot 7    | bot 13   | bot 3    | bot 2    | 10F4 |
| 740      | 1150     | 628      | 573      | 1154     | 655      | 632      | 658      | 737      | 10F4 |
| SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | 10F4 |
| Chat2    | GC44     | CHAT1    | CH21     | GC44     | MP55     | CHAT1    | CH27     | CH11     | 10F4 |
| 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 10F4 |
| b-5 m    | b-5 m    | 10 m     | 50 m     | 0 m      | 0 m      | 0 m      | b-5 m    | 0 m      | 10F4 |
| bot 2    | bot 2    | bot 15   | bot 7    | bot 6    | bot 13   | bot 19   | bot 2    | bot 13   | 10F4 |
| 723      | 732      | 532      | 611      | 620      | 1156     | 1132     | 624      | 668      | 10F4 |
| SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | 10F4 |
| CH12     | CH11     | HECS8    | CH25     | CHAT1    | GC51     | FOC1     | CHAT1    | PRH74    | 10F4 |
| 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 10F4 |
| 0 m      | 30 m     | 0 m      | 0 m      | 75 m     | 0 m      | b-5 m    | 30 m     | b-5 m    | 10F4 |
| bot 13   | bot 8    | bot 12   | bot 14   | bot 7    | bot 2    | bot 2    | bot 11   | bot 2    | 10F4 |
| 1142     | 1128     | 1152     | 1139     | 9 1141   | 1155     | 689      | 644      | 1161     | 10F4 |
| SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | SAL      | 10F4 |
| GC28     | Doug11   | GC44     | DEC26    | GC31     | GC51     | CH19     | MP55     | GC60     | 10F4 |
| 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 2020-069 | 10F4 |
| b-5 m    | 0 m      | 0 m      | 0 m      | 0 m      | mid m    | 50 m     | b-5 m    | 0 m      | 10F4 |
| bot 2    | bot 5    | bot 4    | bot 2    | bot 1    | bot 1    | bot 5    | bot 2    | bot 5    | 10F4 |



|                                                     |                                                    |                                                   |                                                  |                                                   |                                                    |                                                  |                                                     |                                                   |                                                     |
|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------|---------------------------------------------------|----------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|
| 801<br>SAL<br>Chat3<br>2020-069<br>50 m<br>bot 7    | 535<br>SAL<br>CH14<br>2020-069<br>b-5 m<br>bot 2   | 519<br>SAL<br>Dix1<br>2020-069<br>0 m<br>bot 17   | 753<br>SAL<br>Chat2<br>2020-069<br>0 m<br>bot 15 | 803<br>SAL<br>Chat3<br>2020-069<br>30 m<br>bot 9  | 599<br>SAL<br>CH25<br>2020-069<br>b-5 m<br>bot 2   | 649<br>SAL<br>MP55<br>2020-069<br>50 m<br>bot 7  | 501<br>SAL<br>Dix2<br>2020-069<br>0 m<br>bot 16     | 665<br>SAL<br>CH27<br>2020-069<br>0 m<br>bot 9    | 1143<br>SAL<br>GC28<br>2020-069<br>50 m<br>bot 3    |
| 766<br>SAL<br>CH16<br>2020-069<br>5 m<br>bot 12     | 1134<br>SAL<br>FOC1<br>2020-069<br>0 m<br>bot 4    | 285<br>SAL<br>MT05<br>2020-069<br>0 m<br>bot 15   | 248<br>SAL<br>MS08b<br>2020-069<br>0 m<br>bot 22 | 759<br>SAL<br>CH16<br>2020-069<br>100 m<br>bot 5  | 764<br>SAL<br>CH16<br>2020-069<br>20 m<br>bot 10   | 314<br>SAL<br>JPS7<br>2020-069<br>0 m<br>bot 13  | 272<br>SAL<br>MT05<br>2020-069<br>b-5 m<br>bot 2    | 186<br>SAL<br>CI01<br>2020-069<br>50 m<br>bot 7   | 761<br>SAL<br>CH16<br>2020-069<br>50 m<br>bot 7     |
| 123<br>SAL<br>CS01<br>2020-069<br>50 m<br>bot 17    | 817<br>SAL<br>CH08<br>2020-069<br>30 m<br>bot 8    | 1036<br>SAL<br>HECS7<br>2020-069<br>0 m<br>bot 13 | 971<br>SAL<br>Obs2<br>2020-069<br>0 m<br>bot 18  | 201<br>SAL<br>MS01<br>2020-069<br>50 m<br>bot 8   | 1025<br>SAL<br>HECS7<br>2020-069<br>b-5 m<br>bot 2 | 1007<br>SAL<br>HA2<br>2020-069<br>0 m<br>bot 16  | 1016<br>SAL<br>HA4<br>2020-069<br>50 m<br>bot 8     | 219<br>SAL<br>MS04<br>2020-069<br>50 m<br>bot 11  | 796<br>SAL<br>Chat3<br>2020-069<br>b-5 m<br>bot 2   |
| 984<br>SAL<br>Obs5<br>2020-069<br>50 m<br>bot 12    | 822<br>SAL<br>CH08<br>2020-069<br>0 m<br>bot 13    | 40<br>SAL<br>CS09<br>2020-069<br>b-5 m<br>bot 2   | 1010<br>SAL<br>HA4<br>2020-069<br>b-5 m<br>bot 2 | 1030<br>SAL<br>HECS7<br>2020-069<br>50 m<br>bot 7 | 760<br>SAL<br>CH16<br>2020-069<br>75 m<br>bot 6    | 839<br>SAL<br>CH05<br>2020-069<br>30 m<br>bot 8  | 147<br>SAL<br>Scotts2<br>2020-069<br>b-5 m<br>bot 2 | 317<br>SAL<br>JPS4<br>2020-069<br>b-5 m<br>bot 2  | 155<br>SAL<br>Scotts2<br>2020-069<br>50 m<br>bot 10 |
| 1052<br>SAL<br>OGCH46<br>2020-069<br>b-5 m<br>bot 2 | 64<br>SAL<br>CS06<br>2020-069<br>0 m<br>bot 11     | 46<br>SAL<br>CS09<br>2020-069<br>50 m<br>bot 8    | 965<br>SAL<br>Obs2<br>2020-069<br>50 m<br>bot 12 | 251<br>SAL<br>MT11b<br>2020-069<br>b-5 m<br>bot 2 | 139<br>SAL<br>CI04<br>2020-069<br>50 m<br>bot 9    | 99<br>SAL<br>CI08<br>2020-069<br>50 m<br>bot 16  | 802<br>SAL<br>Chat3<br>2020-069<br>40 m<br>bot 8    | 228<br>SAL<br>MS08b<br>2020-069<br>b-5 m<br>bot 2 | 758<br>SAL<br>CH16<br>2020-069<br>150 m<br>bot 4    |
| 85<br>SAL<br>CI08<br>2020-069<br>b-5 m<br>bot 2     | 1039<br>SAL<br>HECS4<br>2020-069<br>b-5 m<br>bot 2 | 1001<br>SAL<br>HA2<br>2020-069<br>50 m<br>bot 10  | 166<br>SAL<br>HAK1<br>2020-069<br>b-5 m<br>bot 2 | 55<br>SAL<br>CS06<br>2020-069<br>b-5 m<br>bot 2   | 970<br>SAL<br>2020-069<br>Obs2<br>0 m              | 195<br>SAL<br>MS01<br>2020-069<br>b-5 m<br>bot 2 | 765<br>SAL<br>CH16<br>2020-069<br>10 m<br>bot 16    | 767<br>SAL<br>CH16<br>2020-069<br>0 m<br>bot 13   | 263<br>SAL<br>MT11b<br>2020-069<br>50 m<br>bot 14   |
| 833<br>SAL<br>CH05<br>2020-069<br>b-5 m<br>bot 2    | 294<br>SAL<br>SRN1<br>2020-069<br>50 m<br>bot 8    | 279<br>SAL<br>MT05<br>2020-069<br>50 m<br>bot 9   | 308<br>SAL<br>JPS7<br>2020-069<br>50 m<br>bot 7  | 1022<br>SAL<br>HA4<br>2020-069<br>0 m<br>bot 14   | 52<br>SAL<br>CS09<br>2020-069<br>0 m<br>bot 14     | 800<br>SAL<br>Chat3<br>2020-069<br>50 m<br>bot 6 | 181<br>SAL<br>CI01<br>2020-069<br>b-5 m<br>bot 2    | 129<br>SAL<br>CS01<br>2020-069<br>0 m<br>bot 23   | 162<br>SAL<br>Scotts2<br>2020-069<br>0 m<br>bot 17  |

|                                                     |                                                   |                                                    |                                                    |                                                   |                                                    |                                                   |                                                   |                                                    |                                                    |
|-----------------------------------------------------|---------------------------------------------------|----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|----------------------------------------------------|---------------------------------------------------|---------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| 1076<br>SAL<br>GrC36<br>2020-069<br>0 m<br>bot 1    | 955<br>SAL<br>Obs2<br>2020-069<br>b-5 m<br>bot 2  | 1043<br>SAL<br>HECS4<br>2020-069<br>50 m<br>bot 6  | 755<br>SAL<br>CH16<br>2020-069<br>b-5 m<br>bot 1   | 763<br>SAL<br>CH16<br>2020-069<br>30 m<br>bot 9   | 808<br>SAL<br>Chat3<br>2020-069<br>0 m<br>bot 14   | 897<br>SAL<br>PI4<br>2020-069<br>b-5 m<br>bot 2   | 109<br>SAL<br>CS01<br>2020-069<br>b-5 m<br>bot 3  | 916<br>SAL<br>KH1<br>2020-069<br>b-5 m<br>bot 2    | 300<br>SAL<br>SRN1<br>2020-069<br>0 m<br>bot 14    |
| 207<br>SAL<br>MS01<br>2020-069<br>0 m<br>bot 14     | 242<br>SAL<br>MS08b<br>2020-069<br>50 m<br>bot 16 | 844<br>SAL<br>CH05<br>2020-069<br>0 m<br>bot 13    | 210<br>SAL<br>MS04<br>2020-069<br>b-5 m<br>bot 2   | 288<br>SAL<br>SRN1<br>2020-069<br>b-5 m<br>bot 2  | 940<br>SAL<br>PI7<br>2020-069<br>mid m<br>bot 1    | 1049<br>SAL<br>HECS4<br>2020-069<br>0 m<br>bot 12 | 132<br>SAL<br>CI04<br>2020-069<br>b-5 m<br>bot 2  | 269<br>SAL<br>MT11b<br>2020-069<br>0 m<br>bot 20   | 171<br>SAL<br>HAK1<br>2020-069<br>50 m<br>bot 7    |
| 58<br>SAL<br>CS06<br>2020-069<br>50 m<br>bot 5      | 192<br>SAL<br>CI01<br>2020-069<br>0 m<br>bot 13   | 225<br>SAL<br>MS04<br>2020-069<br>0 m<br>bot 17    | 993<br>SAL<br>HA2<br>2020-069<br>b-5 m<br>bot 2    | 1<br>SAL<br>A1<br>2020-069<br>b-5 m<br>bot 1      | 1114<br>SAL<br>Doug6<br>2020-069<br>50 m<br>bot 4  | 178<br>SAL<br>HAK1<br>2020-069<br>0 m<br>bot 14   | 105<br>SAL<br>CI08<br>2020-069<br>0 m<br>bot 22   | 888<br>SAL<br>PI1<br>2020-069<br>50 m<br>bot 13    | 145<br>SAL<br>CI04<br>2020-069<br>0 m<br>bot 15    |
| 303<br>SAL<br>JPS7<br>2020-069<br>b-5 m<br>bot 2    | 990<br>SAL<br>Obs5<br>2020-069<br>0 m<br>bot 18   | 1133<br>SAL<br>Doug2<br>2020-069<br>0 m<br>bot 2   | 859<br>SAL<br>CH02<br>2020-069<br>b-5 m<br>bot 2   | 435<br>SAL<br>Dix5<br>2020-069<br>b-5 m<br>bot 2  | 936<br>SAL<br>KH3<br>2020-069<br>0 m<br>bot 9      | 949<br>SAL<br>Port1<br>2020-069<br>0 m<br>bot 8   | 912<br>SAL<br>PI4<br>2020-069<br>0 m<br>bot 17    | 444<br>SAL<br>Dix5<br>2020-069<br>50 m<br>bot 11   | 332<br>SAL<br>JPS4<br>2020-069<br>0 m<br>bot 17    |
| 1095<br>SAL<br>Doug16<br>2020-069<br>b-5 m<br>bot 2 | 1093<br>SAL<br>Doug26<br>2020-069<br>0 m<br>bot 1 | 1057<br>SAL<br>OGCH46<br>2020-069<br>50 m<br>bot 7 | 1096<br>SAL<br>Doug16<br>2020-069<br>50 m<br>bot 3 | 425<br>SAL<br>Q17<br>2020-069<br>b-5 m<br>bot 2   | SAL<br>366<br>2020-069<br>HG4<br>bot 2             | 907<br>SAL<br>PI4<br>2020-069<br>50 m<br>bot 12   | 1121<br>SAL<br>Doug4<br>2020-069<br>0 m<br>bot 4  | 1063<br>SAL<br>OGCH46<br>2020-069<br>0 m<br>bot 13 | 1085<br>SAL<br>Doug45<br>2020-069<br>50 m<br>bot 3 |
| 1080<br>SAL<br>GRC1<br>2020-069<br>0 m<br>bot 1     | 974<br>SAL<br>Obs5<br>2020-069<br>b-5 m<br>bot 2  | 868<br>SAL<br>CH02<br>2020-069<br>50 m<br>bot 11   | 807<br>SAL<br>Chat3<br>2020-069<br>0 m<br>bot 13   | 1207<br>SAL<br>SC69<br>2020-069<br>50 m<br>bot 12 | 1221<br>SAL<br>HEC1<br>2020-069<br>50 m<br>bot 7   | 927<br>SAL<br>KH1<br>2020-069<br>0 m<br>bot 13    | 1194<br>SAL<br>SC61<br>2020-069<br>0 m<br>bot 18  | 5377<br>SAL<br>Loop<br>2020-069                    | 1110<br>SAL<br>Doug8<br>2020-069<br>0 m<br>bot 1   |
| 1168<br>SAL<br>GC74<br>2020-069<br>mid m<br>bot 3   | 495<br>SAL<br>Dix2<br>2020-069<br>50 m<br>bot 10  | 360<br>SAL<br>JPN3<br>2020-069<br>0 m<br>bot 13    | 811<br>SAL<br>CH08<br>2020-069<br>b-5 m<br>bot 2   | 1227<br>SAL<br>HEC1<br>2020-069<br>0 m<br>bot 13  | 1112<br>SAL<br>Doug6<br>2020-069<br>b-5 m<br>bot 2 | 5404<br>SAL<br>2020-069<br>Loop                   | 1089<br>SAL<br>Doug40<br>2020-069<br>0 m<br>bot 1 | 416<br>SAL<br>Q21<br>2020-069<br>50 m<br>bot 14    | 466<br>SAL<br>Dix4<br>2020-069<br>0 m<br>bot 15    |



2020-069 Labels

4 of 4

|                                                   |                                                    |                                                    |                                                   |                                                   |                                                     |                                                     |                                                    |                                                    |                                                   |
|---------------------------------------------------|----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|
| 1188<br>SAL<br>SC61<br>2020-069<br>50 m<br>bot 12 | 1216<br>SAL<br>HEC1<br>2020-069<br>b-5 m<br>bot 2  | 941<br>SAL<br>PI7<br>2020-069<br>0 m<br>bot 2      | 1213<br>SAL<br>SC69<br>2020-069<br>0 m<br>bot 18  | 1120<br>SAL<br>Kit1<br>2020-069<br>150 m<br>bot 3 | 484<br>SAL<br>Dix3<br>2020-069<br>0 m<br>bot 17     | 1116<br>SAL<br>Doug6<br>2020-069<br>0 m<br>bot 6    | 1176<br>SAL<br>UC31<br>2020-069<br>0 m<br>bot 1    | 422<br>SAL<br>Q21<br>2020-069<br>0 m<br>bot 20     | 920<br>SAL<br>KH1<br>2020-069<br>50 m<br>bot 6    |
| 857<br>SAL<br>CH03<br>2020-069<br>0 m<br>bot 1    | 938<br>SAL<br>PI6<br>2020-069<br>mid m<br>bot 1    | 873<br>SAL<br>CH02<br>2020-069<br>0 m<br>bot 16    | 1158<br>SAL<br>GC60<br>2020-069<br>b-5 m<br>bot 2 | 432<br>SAL<br>Q17<br>2020-069<br>0 m<br>bot 9     | 1087<br>SAL<br>Doug45<br>2020-069<br>0 m<br>bot 5   | 1130<br>SAL<br>Kit1<br>2020-069<br>0 m<br>bot 13    | 877<br>SAL<br>PI1<br>2020-069<br>b-5 m<br>bot 2    | 1165<br>SAL<br>GC68<br>2020-069<br>0 m<br>bot 2    | 952<br>SAL<br>PORT2<br>2020-069<br>mid m<br>bot 1 |
| 1197<br>SAL<br>SC69<br>2020-069<br>b-5 m<br>bot 2 | 5350<br>SAL<br>Loop<br>2020-069<br>Loop            | 1173<br>SAL<br>KITLOPE<br>2020-069<br>0 m<br>bot 1 | 1167<br>SAL<br>GC74<br>2020-069<br>b-5 m<br>bot 2 | 1091<br>SAL<br>Doug31<br>2020-069<br>m<br>bot 2   | 1171<br>SAL<br>GC74<br>2020-069<br>0 m<br>bot 6     | 450<br>SAL<br>Dix5<br>2020-069<br>0 m<br>bot 17     | 1126<br>SAL<br>Doug11<br>2020-069<br>m<br>bot 3    | 1113<br>SAL<br>Doug6<br>2020-069<br>130 m<br>bot 3 | 404<br>SAL<br>Q21<br>2020-069<br>b-5 m<br>bot 2   |
| 1097<br>SAL<br>Doug16<br>2020-069<br>0 m<br>bot 4 | 1132<br>SAL<br>Doug2<br>2020-069<br>mid m<br>bot 1 | 346<br>SAL<br>JPS1<br>2020-069<br>0 m<br>bot 13    | 354<br>SAL<br>JPN3<br>2020-069<br>50 m<br>bot 7   | 929<br>SAL<br>KH3<br>2020-069<br>b-5 m<br>bot 2   | 487<br>SAL<br>Dix2<br>2020-069<br>b-5 m<br>bot 2    | 1125<br>SAL<br>Doug11<br>2020-069<br>b-5 m<br>bot 2 | 939<br>SAL<br>PI6<br>2020-069<br>0 m<br>bot 2      | 469<br>SAL<br>Dix3<br>2020-069<br>b-5 m<br>bot 2   | 340<br>SAL<br>JPS1<br>2020-069<br>50 m<br>bot 7   |
| 1178<br>SAL<br>SC61<br>2020-069<br>b-5 m<br>bot 2 | 1120<br>SAL<br>Doug4<br>2020-069<br>50 m<br>bot 3  | 478<br>SAL<br>Dix3<br>2020-069<br>50 m<br>bot 11   | 5367<br>Loop<br>SAL<br>2020-069                   | 1170<br>SAL<br>GC74<br>2020-069<br>0 m<br>bot 5   | 1084<br>SAL<br>Doug45<br>2020-069<br>b-5 m<br>bot 2 | 894<br>SAL<br>PI1<br>2020-069<br>0 m<br>bot 19      | 1119<br>SAL<br>Doug4<br>2020-069<br>b-5 m<br>bot 2 | 943<br>SAL<br>Port1<br>2020-069<br>b-5 m<br>bot 2  | Sal<br>2020-069<br>5200<br>Loop                   |
| 5380<br>SAL<br>2020-069<br>Loop                   | 335<br>SAL<br>JPS1<br>2020-069<br>b-5 m<br>bot 2   | 453<br>SAL<br>Dix4<br>2020-069<br>b-5 m<br>bot 2   | 332<br>SAL<br>JPS4<br>2020-069<br>0 m<br>bot 17   | 326<br>SAL<br>JPS4<br>2020-069<br>50 m<br>bot 11  | 1169<br>SAL<br>GC74<br>2020-069<br>50 m<br>bot 4    | 953<br>SAL<br>PORT2<br>2020-069<br>0 m<br>bot 2     | 1127<br>SAL<br>Doug11<br>2020-069<br>50 m<br>bot 4 | 460<br>SAL<br>Dix4<br>2020-069<br>50 m<br>bot 9    |                                                   |
| 349<br>SAL<br>JPN3<br>2020-069<br>b-5 m<br>bot 2  | 1164<br>SAL<br>GC68<br>2020-069<br>mid m<br>bot 1  |                                                    |                                                   |                                                   |                                                     |                                                     |                                                    |                                                    |                                                   |

these 2 labels were  
on 1 bottle.

Final Standby Value:

1106  
SAL  
Doug12  
2020-069  
175 m  
bot 3

330  
SAL  
JPS4  
2020-069  
50 m  
bot 11

Waterf...ca