

# Autosal Analysis Sheet

Run 8 Run 9  
Run 10

Date: Aug 24/04

Analyst: A. Hamilton

Start time: 5:10 Am

Standby Val before calibration: 24 + 62.978

after calibration: 24 + 62.95

Salinometer

Vial Informal K<sub>15</sub> = 0.99987

Batch # 0144

Batch Date: 23-Sep-03

Model # 8400M

Bath temp.: 24°C

Serial # 49463

Sample temp.: 21.4°C

Zero: -0.00002

Room temp.: 21.4°C

RS: 5.35 → 5.58!

## Autosal Conductivity Reading

Salinity ppt

| Sample # | Station Id | Depth m | #1      | #2      | #3      | Average | Computed | Remarks                         |
|----------|------------|---------|---------|---------|---------|---------|----------|---------------------------------|
| SSW      |            |         | 1.99974 | 1.99974 | 1.99973 |         |          | RS = 5.58                       |
| ADW-9    |            |         | 1.99785 | 1.99785 | 1.99786 |         |          | @ 5:30 Am                       |
| 482      | 30         | 22      | 1.78428 | 1.78428 | 1.78428 |         |          | Stack - 13                      |
| 483      | "          | 23      | 1.77460 | 1.77460 | 1.77460 |         |          |                                 |
| 484      | "          | 24      | 1.71061 | 1.71061 | 1.71061 |         |          |                                 |
| 485      | 31         | 1       | 1.99773 | 1.99774 | 1.99774 |         |          | Stack - 14                      |
| 486      | "          | 2       | 1.99781 | 1.99782 | 1.99782 |         |          | "                               |
| 486      | "          | 2       | 1.99782 | 1.99781 | 1.99780 |         |          | " DUP                           |
| 487      | "          | 3       | 1.99769 | 1.99763 | 1.99765 |         |          | "                               |
| 488      | "          | 4       | 1.99718 | 1.99718 | 1.99718 |         |          | "                               |
| 488      | "          | 4       | 1.99719 | 1.99719 | 1.99718 |         |          | " DUP                           |
| 489      | "          | 5       | 1.99654 | 1.99654 | 1.99654 |         |          | "                               |
| 490      | "          | 6       | 1.99604 | 1.99604 | 1.99605 |         |          | "                               |
| 491      | "          | 7       | 1.99409 | 1.99409 | 1.99409 |         |          | "                               |
| ADW-8    |            |         | 1.99787 | 1.99788 | 1.99787 |         |          | @ 6:08 Am SB: 24 + 62.97 21.4°C |
| 492      | "          | 8       | 1.99363 | 1.99363 | 1.99364 |         |          | "                               |
| 493      | "          | 9       | 1.99286 | 1.99285 | 1.99287 |         |          | "                               |
| 494      | "          | 10      | 1.99220 | 1.99221 | 1.99220 |         |          | "                               |
| 495      | "          | 11      | 1.99043 | 1.99044 | 1.99043 |         |          | " - DUP                         |
| 495      | "          | 11      | 1.99045 | 1.99042 | 1.99047 |         |          | "                               |
| 496      | "          | 12      | 1.98071 | 1.98071 | 1.98071 |         |          | "                               |
| 497      | "          | 13      | 1.97151 | 1.97151 | 1.97152 |         |          | "                               |
| 498      | "          | 14      | 1.95550 | 1.95550 | 1.95551 |         |          | "                               |
| 499      | "          | 15      | 1.94295 | 1.94294 | 1.94293 |         |          | "                               |
| 500      | "          | 16      | 1.92151 | 1.92151 | 1.92152 |         |          | "                               |
| 501      | "          | 17      | 1.90636 | 1.90637 | 1.90637 |         |          | " @ 6:36 Am                     |

Room: 21.4°C Sample: 21.4°C

# Autosal Analysis Sheet

Date: Aug 28/04  
Analyst: N. Ham/Ham

| Standby Val before calibration: 24 + 62 |            |         |                              |         |                    |         |              |                           |
|-----------------------------------------|------------|---------|------------------------------|---------|--------------------|---------|--------------|---------------------------|
| after calibration: 24 + 6297            |            |         | Salinometer                  |         |                    |         |              |                           |
| Vial informat K <sub>15</sub> =         |            |         | Model #                      |         | Bath temp.: 24     |         |              |                           |
| Batch #                                 |            |         | Serial #                     |         | Sample temp.: 21.4 |         |              |                           |
| Batch Date:                             |            |         | Zero:                        |         | Room temp.: 21.5   |         |              |                           |
|                                         |            |         | Autosal Conductivity Reading |         |                    |         | Salinity ppt |                           |
| Sample #                                | Station Id | Depth m | #1                           | #2      | #3                 | Average | Computed     | Remarks                   |
| 502                                     | 31         | 18      | 1.88955                      | 1.88954 | 1.88956            |         |              | Sh CB - 31                |
| 503                                     | "          | 19      | 1.87974                      | 1.87974 | 1.87974            |         |              | "                         |
| ADW-7                                   | "          |         | 1.99795                      | 1.99796 | 1.99797            |         |              | @ 6:45 AM - drifting high |
| 504                                     | "          | 20      | 1.86614                      | 1.86614 | 1.86615            |         |              | SB - 21 + 6297            |
| 505                                     | "          | 21      | 1.83552                      | 1.83551 | 1.83549            |         |              | "                         |
| 506                                     | "          | 22      | 1.79395                      | 1.79393 | 1.79394            |         |              | "                         |
| 507                                     | "          | 23      | 1.74714                      | 1.74715 | 1.74715            |         |              | "                         |
| 508                                     | "          | 24      | 1.68451                      | 1.68450 | 1.68450            |         |              | "                         |
| 509                                     | 32         | 1       | 1.99787                      | 1.99786 | 1.99790            |         |              | Sh CB - 15                |
| 510                                     | "          | 2       | 1.99792                      | 1.99792 | 1.99793            |         |              | - DUP                     |
| 510                                     | "          | 2       | 1.99791                      | 1.99794 | 1.99794            |         |              | " Room = 21.8°C           |
| 511                                     | "          | 3       | 1.99777                      | 1.99775 | 1.99777            |         |              | " Sample = 19.7°C         |
| 512                                     | "          | 4       | 1.99731                      | 1.99729 | 1.99731            |         |              | "                         |
| ADW-7                                   |            |         | 1.99799                      | 1.99800 | 1.99801            |         |              | @ 7:25 AM Room = 22.2°C   |
| 512                                     | "          | 4       | 1.99722                      | 1.99722 | 1.99722            |         |              | DUP " Sample = 20.5       |
| 513                                     | "          | 5       | 1.99610                      | 1.99613 | 1.99612            |         |              | "                         |
| 514                                     | "          | 6       | 1.99498                      | 1.99492 | 1.99491            |         |              | "                         |
| 515                                     | "          | 7       | 1.99368                      | 1.99368 | 1.99369            |         |              | "                         |
| 516                                     | "          | 8       | 1.99300                      | 1.99300 | 1.99301            |         |              | " Sample = 20.5°C         |
| 517                                     | "          | 9       | 1.99222                      | 1.99224 | 1.99224            |         |              | "                         |
| 518                                     | "          | 10      | 1.99079                      | 1.99080 | 1.99078            |         |              | "                         |
| 519                                     | "          | 11      | 1.98039                      | 1.98038 | 1.98039            |         |              | "                         |
| 519                                     | "          | 11      | 1.98039                      | 1.98038 | 1.98038            |         |              | " - DUP                   |
| 520                                     | "          | 12      | 1.97021                      | 1.97021 | 1.97021            |         |              | "                         |
| 521                                     | "          | 13      | 1.95461                      | 1.95461 | 1.95461            |         |              | "                         |
| 522                                     | "          | 14      | 1.93742                      | 1.93744 | 1.93744            |         |              | "                         |

# Autosal Analysis Sheet

Date: AUG 24

Analyst: DOUG SIEBERG

Standby Val before calibration:

after calibration:

Salinometer

Vial informat K<sub>15</sub> =

Batch #

Batch Date:

Model # 8400A

Bath temp.: 24

Serial # 49463

Sample temp.: 22.5

Zero: 0.00000

Room temp.: 22

| BOT #    |            |         | Autosal Conductivity Reading |         |         |         | Salinity ppt | Remarks                |
|----------|------------|---------|------------------------------|---------|---------|---------|--------------|------------------------|
| Sample # | Station Id | Depth-m | #1                           | #2      | #3      | Average | Computed     |                        |
| 523      | 32         | 15      | 1.91965                      | 1.91965 |         |         |              |                        |
| 524      | "          | 16      | 1.90772                      | 1.90773 |         |         |              |                        |
| 526      | "          | 18      | 1.88567                      | 1.88566 |         |         |              | NO BOT #17             |
| 527      | "          | 19      | 1.87790                      | 1.87790 |         |         |              |                        |
| 528      | "          | 20      | 1.86279                      | 1.86279 |         |         |              |                        |
| 529      | "          | 21      | 1.84462                      | 1.84461 |         |         |              |                        |
| 530      | "          | 22      | 1.76601                      | 1.76601 |         |         |              |                        |
| 531      | "          | 23      | 1.74102                      | 1.74101 |         |         |              |                        |
| 532      | "          | 24      | 1.69359                      | 1.69360 |         |         |              |                        |
| 533      | 33         | 1       | 1.99797                      | 1.99792 |         |         |              |                        |
| CB-17    |            | 2       | 1.99804                      | 1.99804 |         |         |              | FRESHLY OPENED         |
| 534      | 33         | 2       | 1.99795                      | 1.99795 |         |         |              |                        |
| 534      | 33         | 2       | 1.99805                      | 1.99802 | 1.99803 |         |              | DUPLICATE              |
| 535      | "          | 3       | 1.99801                      | 1.99801 |         |         |              |                        |
| 536      | "          | 4       | 1.99791                      | 1.99791 |         |         |              |                        |
| 536      | "          | 4       | 1.99792                      | 1.99792 |         |         |              | DUPLICATE              |
| 537      | "          | 5       | 1.99740                      | 1.99740 |         |         |              |                        |
| 538      | "          | 6       | 1.99618                      | 1.99618 |         |         |              |                        |
| 539      | "          | 7       | 1.99437                      | 1.99437 |         |         |              |                        |
| 540      | "          | 8       | 1.99379                      | 1.99379 |         |         |              |                        |
| 541      | "          | 9       | 1.99311                      | 1.99311 |         |         |              |                        |
| 542      | "          | 10      | 1.99259                      | 1.99259 |         |         |              |                        |
| 543      | "          | 11      | 1.99019                      | 1.99019 |         |         |              |                        |
| 544      | "          | 12      | 1.98025                      | 1.98025 |         |         |              |                        |
| 544      | "          | 12      | 1.98026                      | 1.98025 |         |         |              | DUPLICATE              |
| CB-17    |            | 2       | 1.99811                      | 1.99810 |         |         |              | AGAIN - ALREADY OPENED |

09:55

# Autosal Analysis Sheet

Date: Aug 24

Analyst: DOUG SIEBERG

Standby Val before calibration:

after calibration:

Salinometer

Vial Informal K<sub>15</sub> =

Batch #

Batch Date:

Model # 8400A

Bath temp.: 24

Serial # 49463

Sample temp.: 22

Zero: 0.00001

Room temp.: 21.5

| CAST # BOT. # |            | Autosal Conductivity Reading |         |         |    | Salinity ppt | Remarks                |
|---------------|------------|------------------------------|---------|---------|----|--------------|------------------------|
| Sample #      | Station Id | Depth m                      | #1      | #2      | #3 | Average      |                        |
| 545           | 33         | 13                           | 1.96960 | 1.96960 |    |              |                        |
| 546           | "          | 14                           | 1.95501 | 1.95501 |    |              |                        |
| 547           | "          | 15                           | 1.93787 | 1.93788 |    |              |                        |
| 548           | "          | 16                           | 1.92052 | 1.92051 |    |              |                        |
| 549           | "          | 17                           | 1.90589 | 1.90589 |    |              |                        |
| 550           | "          | 18                           | 1.88949 | 1.88948 |    |              |                        |
| 551           | "          | 19                           | 1.88139 | 1.88138 |    |              |                        |
| 552           | "          | 20                           | 1.87386 | 1.87387 |    |              |                        |
| 553           | "          | 21                           | 1.83917 | 1.83916 |    |              |                        |
| 554           | "          | 22                           | 1.78084 | 1.78083 |    |              |                        |
| 555           | "          | 23                           | 1.76465 | 1.76465 |    |              | 10.45                  |
| ADW-10        | CB-12      | 29                           | 1.99805 | 1.99804 |    |              | 3200M - FRESHLY OPENED |
| 556           | 33         | 24                           | 1.74484 | 1.74482 |    |              |                        |
| 557           | 34         | 1                            | 1.99806 | 1.99806 |    |              |                        |
| 558           | 34         | 2                            | 1.99807 | 1.99808 |    |              | DUPLICATE              |
| 558           | 34         | 2                            | 1.99809 | 1.99811 |    |              |                        |
| 559           | 34         | 3                            | 1.99805 | 1.99805 |    |              |                        |
| 560           | "          | 4                            | 1.99793 | 1.99793 |    |              |                        |
| 560           | "          | 4                            | 1.99790 | 1.99790 |    |              | DUPLICATE              |
| 561           | "          | 5                            | 1.99737 | 1.99737 |    |              |                        |
| 562           | "          | 6                            | 1.99616 | 1.99615 |    |              |                        |
| 563           | "          | 7                            | 1.99446 | 1.99447 |    |              |                        |
| 564           | "          | 8                            | 1.99388 | 1.99386 |    |              |                        |
| 565           | "          | 9                            | 1.99282 | 1.99282 |    |              |                        |
| 566           | "          | 10                           | 1.99212 | 1.99212 |    |              |                        |
| ADW-11        | CB-17      | 2                            | 1.99810 | 1.99809 |    |              | 11:12                  |

# Autosal Analysis Sheet

Date: Aug 24

Analyst: DOUG SIFBERG

Standby Val before calibration:

after calibration: 2416297

Salinometer

Vial informal K<sub>15</sub> =

Batch #

Batch Date:

Model # 8400A

Serial # 49463

Zero: 0.00001

Bath temp.: 24

Sample temp.: 22.3

Room temp.: 22.5

RS: 5.58

| CAST # BOT. # |            |         | Autosal Conductivity Reading |         |    |         | Salinity ppt |                             |
|---------------|------------|---------|------------------------------|---------|----|---------|--------------|-----------------------------|
| Sample #      | Station Id | Depth m | #1                           | #2      | #3 | Average | Computed     | Remarks                     |
| 567           | 34         | 11      | 1.99052                      | 1.99052 |    |         |              |                             |
| 567           | 34         | 11      | 1.99046                      | 1.99044 |    |         |              | DUPLICATE                   |
| 568           | 34         | 12      | 1.98176                      | 1.98177 |    |         |              |                             |
| 569           | "          | 13      | 1.97146                      | 1.97144 |    |         |              |                             |
| 570           | "          | 14      | 1.95733                      | 1.95733 |    |         |              |                             |
| 571           | "          | 15      | 1.94040                      | 1.94038 |    |         |              |                             |
| 572           | "          | 16      | 1.92533                      | 1.92534 |    |         |              |                             |
| 573           | "          | 17      | 1.90827                      | 1.90827 |    |         |              |                             |
| 574           | "          | 18      | 1.88689                      | 1.88689 |    |         |              |                             |
|               | CB-17      | 2       | 1.99807                      | 1.99807 |    |         |              | 11:45 Break for lunch       |
|               | CB-17      |         | 1.99804                      | 1.99805 |    |         |              | 12:45 - Fresh bottle        |
| 575           | 34         | 19      | 1.87920                      | 1.87920 |    |         |              | Room: 22.4°C Sample: 21.8°C |
| 576           | "          | 20      | 1.86444                      | 1.86444 |    |         |              | Sta CB17                    |
| 577           | "          | 21      | 1.84494                      | 1.84494 |    |         |              | "                           |
| 578           | "          | 22      | 1.77673                      | 1.77671 |    |         |              | "                           |
| 579           | "          | 23      | 1.75866                      | 1.75866 |    |         |              | "                           |
| 580           | "          | 24      | 1.67995                      | 1.67996 |    |         |              | "                           |
| 602           | 35         | 22      | 1.76599                      | 1.76600 |    |         |              | "                           |
| 603           | "          | 23      | 1.72812                      | 1.72812 |    |         |              | "                           |
| 604           | "          | 24      | 1.61417                      | 1.61417 |    |         |              | "                           |
| 605           | 36         | 1       | 1.99804                      | 1.99802 |    |         |              | "                           |
| 606           | "          | 2       | 1.99804                      | 1.99805 |    |         |              | "                           |
| 606           | "          | 2       | 1.99805                      | 1.99806 |    |         |              | " - DUA                     |
| 607           | "          | 3       | 1.99806                      | 1.99805 |    |         |              | "                           |
| 608           | "          | 4       | 1.99786                      | 1.99786 |    |         |              | "                           |

# Autosal Analysis Sheet

Date:

Analyst:

| Standby Val before calibration: |            |         |                              |         |               |         |              |                         |
|---------------------------------|------------|---------|------------------------------|---------|---------------|---------|--------------|-------------------------|
| after calibration:              |            |         | Salinometer                  |         |               |         |              |                         |
| Vial informat K <sub>15</sub> = |            |         | Model #                      |         | Bath temp.:   |         |              |                         |
| Batch #                         |            |         | Serial #                     |         | Sample temp.: |         |              |                         |
| Batch Date:                     |            |         | Zero:                        |         | Room temp.:   |         |              |                         |
|                                 |            |         | Autosal Conductivity Reading |         |               |         | Salinity ppt |                         |
| Sample #                        | Station Id | Depth m | #1                           | #2      | #3            | Average | Computed     | Remarks                 |
| 608                             | 36         | 4       | 1.99786                      | 1.99786 |               |         |              | Sta CB-19               |
| ADW-12                          | CB-17      |         | 1.99808                      | 1.99808 |               |         |              | Fresh bottle Room: 22.6 |
| 609                             | 36         | 5       | 1.99731                      | 1.99732 |               |         |              | Sta CB-19 Sample: 22.5  |
| 610                             | "          | 6       | 1.99598                      | 1.99598 |               |         |              | "                       |
| 611                             | "          | 7       | 1.99445                      | 1.99445 |               |         |              | "                       |
| 612                             | "          | 8       | 1.99362                      | 1.99363 |               |         |              | "                       |
| 613                             | "          | 9       | 1.99265                      | 1.99264 |               |         |              | "                       |
| 614                             | "          | 10      | 1.99210                      | 1.99211 |               |         |              | "                       |
| 615                             | "          | 11      | 1.98867                      | 1.98868 |               |         |              | "                       |
| 615                             | "          | 11      | 1.98863                      | 1.98864 |               |         |              | " DUA                   |
| 616                             | "          | 12      | 1.98011                      | 1.98011 |               |         |              | "                       |
| 617                             | "          | 13      | 1.97102                      | 1.97103 |               |         |              | "                       |
| 618                             | "          | 14      | 1.95565                      | 1.95565 |               |         |              | "                       |
| 619                             | "          | 15      | 1.94375                      | 1.94375 |               |         |              | "                       |
| 620                             | "          | 16      | 1.92620                      | 1.92622 |               |         |              | "                       |
| 621                             | "          | 17      | 1.91810                      | 1.91811 |               |         |              | "                       |
|                                 | CB-17      |         | 1.99811                      | 1.99811 |               |         |              | @ 2:10                  |
| 622                             | 36         | 18      | 1.89434                      | 1.89434 |               |         |              | "                       |
| 581                             | 35         | 1       | 1.99810                      | 1.99811 |               |         |              | Sta CB-18               |
| 582                             | "          | 2       | 1.99810                      | 1.99808 |               |         |              | "                       |
| 582                             | "          | 2       | 1.99809                      | 1.99809 |               |         |              | "                       |
| 583                             | "          | 3       | 1.99808                      | 1.99808 |               |         |              | "                       |
| 584                             | "          | 4       | 1.99789                      | 1.99788 |               |         |              | "                       |
| 584                             | "          | 4       | 1.99790                      | 1.99789 |               |         |              | " DUA                   |
| 585                             | "          | 5       | 1.99732                      | 1.99732 |               |         |              | "                       |
| 586                             | "          | 6       | 1.99609                      | 1.99609 |               |         |              | "                       |

58: 24+6299

Date:

Analyst:

| Standby Val |       |    | before calibration: |         |    |    | after calibration: |         | Salinometer              | Vial informal |  | K <sub>15</sub> = | Model # | Bath temp.: | Batch # | Serial # | Sample temp.: | Batch Date: | Zero: | Room temp.: |
|-------------|-------|----|---------------------|---------|----|----|--------------------|---------|--------------------------|---------------|--|-------------------|---------|-------------|---------|----------|---------------|-------------|-------|-------------|
| Sample #    |       |    | Station Id          | Depth m | #1 | #2 | #3                 | Average | Salinity ppt<br>Computed | Remarks       |  |                   |         |             |         |          |               |             |       |             |
| 587         | 35    | 7  | 1.99450             | 1.99451 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 588         | "     | 8  | 1.99400             | 1.99400 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 589         | "     | 9  | 1.99297             | 1.99297 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 590         | "     | 10 | 1.99201             | 1.99201 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 591         | "     | 11 | 1.99032             | 1.99031 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 591         | "     | 11 | 1.99029             | 1.99031 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 592         | "     | 12 | 1.98030             | 1.98030 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 593         | "     | 13 | 1.96958             | 1.96959 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 594         | "     | 14 | 1.95476             | 1.95477 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 595         | "     | 15 | 1.93873             | 1.93873 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 596         | "     | 16 | 1.92006             | 1.92005 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
|             | CB-17 |    | 1.99812             | 1.99813 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 597         | "     | 17 | 1.90491             | 1.90490 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 598         | "     | 18 | 1.88599             | 1.88600 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 599         | "     | 19 | 1.87926             | 1.87926 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 600         | "     | 20 | 1.86258             | 1.86260 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| 601         | "     | 21 | 1.84056             | 1.84055 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
|             | CB-17 |    | 1.99811             | 1.99811 |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |
| SSW         |       |    | 2.0003              | 2.0003  |    |    |                    |         |                          |               |  |                   |         |             |         |          |               |             |       |             |