

# Water Properties Group

# Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28 Station: NS3 Event #: 006 Ship: Vector UTC Date (dd|mmm|yyyy): 03|04|2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |                                                        | Samples Taken |     |     |       |                 |  |  |  |  |  | Comments                   |
|----------|----------|-------------------|----------------------------|-------------------|--------------------------------------------------------|---------------|-----|-----|-------|-----------------|--|--|--|--|--|----------------------------|
|          |          | Flask Serial #    | Value mL * L <sup>-1</sup> | Target Pressure   | Confirmed <input checked="" type="checkbox"/> Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |  |  |                            |
| 1        | 1        | 076               | 0.024                      | B-5               |                                                        | 123           |     |     |       |                 |  |  |  |  |  | Note: incorrect longitude! |
| 2        | 2        | 632               | 0.131                      | 100               |                                                        | 100           |     |     |       |                 |  |  |  |  |  |                            |
| 3        | 3        | 329               | 0.293                      | 75                |                                                        | 75            |     |     |       |                 |  |  |  |  |  |                            |
| 4        | 4        | 371               | 1.088                      | 50                |                                                        | 50            |     |     |       |                 |  |  |  |  |  |                            |
| 5        | 5        | 425               | 1.271                      | 30                |                                                        | 30            |     |     |       |                 |  |  |  |  |  |                            |
| 6        | 6        | 439               | 1.796                      | 20                |                                                        | 20            |     |     |       |                 |  |  |  |  |  |                            |
| 7        | 7        | 456               | 3.013                      | 10                |                                                        | 10            |     |     |       |                 |  |  |  |  |  |                            |
| 8        | 8        | 462               | 8.466                      | 0                 |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 9        |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 10       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 11       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 12       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 13       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 14       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 15       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 16       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 17       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 18       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 19       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 20       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 21       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 22       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 23       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |
| 24       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                            |

Watchkeeper(s): \_\_\_\_\_

Bottom Depth: 130 m

Transmisso Cleaned: ☒ / N

| Time   | UTC         | Local |
|--------|-------------|-------|
| Start  | <u>0120</u> |       |
| Bottom |             |       |
| End    |             |       |

## Positional Information

Start  
 Lat: 51 ° 5.245 N  
 Lon: 127 ° 13.787 W  
 ▼ 798

Bottom  
 Lat: ° N  
 Lon: ° W

End  
 Lat: ° N  
 Lon: ° W

## Oxygen Info For This Cast

Blank Value: \_\_\_\_\_ mL \* L<sup>-1</sup>

Std Value: \_\_\_\_\_ mL \* L<sup>-1</sup>

\*Date Run: \_\_\_\_ | \_\_\_\_ | \_\_\_\_

Analyst: \_\_\_\_\_

\* Oxygen blanks and standards should be run daily, if possible

Note: Cast number not changed from 6

# Water Properties Group

## Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28

Station: N52

Event #: 007

Ship: Vector

UTC Date (dd|mmm|yyyy): 3 | 04 | 2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |                    | Samples Taken |     |     |       |                 |  |  |      | Comments                                  |
|----------|----------|-------------------|----------------------------|-------------------|--------------------|---------------|-----|-----|-------|-----------------|--|--|------|-------------------------------------------|
|          |          | Flask Serial #    | Value mL · L <sup>-1</sup> | Target Pressure   | Confirmed Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |      |                                           |
| 1        | 9        | 638               | 1.845                      | B-5               | 101                | 1             |     |     |       |                 |  |  |      | get H <sub>2</sub> O @ 80% transmissivity |
| 2        | 10       | 639               | 2.736                      | 75                | 75                 |               |     |     |       |                 |  |  | 9:22 |                                           |
| 3        | 11       | 647               | 4.202                      | 50                | 50                 |               |     |     |       |                 |  |  | 9:25 |                                           |
| 4        | 12       | 657               | 3.354                      | 30                | 30                 |               |     |     |       |                 |  |  | 9:29 |                                           |
| 5        | 13       | 690               | 3.755                      | 20                | 20                 |               |     |     |       |                 |  |  | 9:31 |                                           |
| 6        | 14       | 700               | 4.349                      | 10                | 10                 |               |     |     |       |                 |  |  | 9:33 |                                           |
| 7        | 15       | /                 | /                          | 0                 | 2.5                |               |     |     |       |                 |  |  |      | No Sample Must be?                        |
| 8        | 16       |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 9        |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 10       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 11       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 12       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 13       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 14       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 15       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 16       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 17       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 18       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 19       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 20       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 21       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 22       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 23       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |
| 24       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |      |                                           |

Watchkeeper(s):

Bottom Depth: 109 m

Transmisso Cleaned: (Y) / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 0211 |       |
| Bottom |      |       |
| End    |      |       |

### Positional Information

Start Lat: 51 ° 5.330 N  
Lon: 127 ° 13.787 W

Bottom Lat: ° N  
Lon: ° W

End Lat: ° N  
Lon: ° W

### Oxygen Info For This Cast

Blank Value: mL · L<sup>-1</sup>

Std Value: mL · L<sup>-1</sup>

\*Date Run: | |

Analyst:

\* Oxygen blanks and standards should be run daily, if possible

Note: Cast number not changed from 6

# Water Properties Group

## Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28

Station: N51

Event #: 008

Ship: R/V Orion

UTC Date (dd|mmm|yyyy): 03 | 04 | 2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |             |          | Samples Taken |     |     |       |                 |  |  |  |  |  | Comments |
|----------|----------|-------------------|----------------------------|-------------------|-------------|----------|---------------|-----|-----|-------|-----------------|--|--|--|--|--|----------|
|          |          | Flask Serial #    | Value mL · L <sup>-1</sup> | Target Pressure   | Confirmed √ | Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |  |  |          |
| 1        | 16       | 712               | 5.993                      | B-6               |             | 63       |               |     | X   |       |                 |  |  |  |  |  | 9:32     |
| 2        | 17       | 715               | 5.950                      | 50                |             | 50       |               |     |     |       |                 |  |  |  |  |  | 9:40     |
| 3        | 18       | 1105              | 6.329                      | 30                |             | 30       |               |     |     |       |                 |  |  |  |  |  | 9:43     |
| 4        | 19       | 1106              | 6.604                      | 20                |             | 20       |               |     |     |       |                 |  |  |  |  |  | 9:46     |
| 5        | 20       | 1110              | 6.628                      | 10                |             | 10       |               |     |     |       |                 |  |  |  |  |  | 9:49     |
| 6        | 21       | 1123              | 7.705                      | 0                 |             | 205      |               |     |     |       |                 |  |  |  |  |  | 9:52     |
| 7        |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 8        |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 9        |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 10       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 11       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 12       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 13       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 14       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 15       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 16       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 17       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 18       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 19       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 20       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 21       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 22       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 23       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |
| 24       |          |                   |                            |                   |             |          |               |     |     |       |                 |  |  |  |  |  |          |

Watchkeeper(s): \_\_\_\_\_

Bottom Depth: 69 m

Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 0252 |       |
| Bottom |      |       |
| End    |      |       |

Positional Information

|      |              |   |
|------|--------------|---|
| Lat: | 51 ° 5.458   | N |
| Lon: | 127 ° 70.876 | W |

Start

Bottom

End

|      |   |   |
|------|---|---|
| Lat: | ° | N |
| Lon: | ° | W |

|      |   |   |
|------|---|---|
| Lat: | ° | N |
| Lon: | ° | W |

Oxygen Info For This Cast

|              |                            |
|--------------|----------------------------|
| Blank Value: | _____ mL · L <sup>-1</sup> |
| Std Value:   | _____ mL · L <sup>-1</sup> |
| *Date Run:   | ____   ____   ____         |
| Analyst:     | _____                      |

\* Oxygen blanks and standards should be run daily, if possible

Note: cast # not changed from 6

# Water Properties Group

## Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28

Station: NS0

Event #: 009

Ship: Rockwell

UTC Date (dd|mmm|yyyy): 3 | 04 | 2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |                    | Samples Taken |     |     |       |                 |  |  |  |  |  | Comments |
|----------|----------|-------------------|----------------------------|-------------------|--------------------|---------------|-----|-----|-------|-----------------|--|--|--|--|--|----------|
|          |          | Flask Serial #    | Value mL · L <sup>-1</sup> | Target Pressure   | Confirmed Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |  |  |          |
| 1        | 22       | 1144              | 6.539                      | B-5               | 82                 |               |     | X   |       |                 |  |  |  |  |  | 9:55     |
| 2        | 23       | 1487              | 6.529                      | 50                | 50                 |               |     |     |       |                 |  |  |  |  |  | 9:58     |
| 3        | 24       | 1150              | 6.630                      | 30                | 30                 |               |     |     |       |                 |  |  |  |  |  | 10:01    |
| 4        | 25       | 1158              | 6.669                      | 20                |                    |               |     |     |       |                 |  |  |  |  |  | 10:04    |
| 5        | 26       | 1174              | 6.677                      | 10                |                    |               |     |     |       |                 |  |  |  |  |  | 10:07    |
| 6        | 27       | 1175              | 6.578                      | 0                 |                    |               |     |     |       |                 |  |  |  |  |  | 10:10    |
| 7        |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 8        |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 9        |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 10       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 11       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 12       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 13       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 14       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 15       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 16       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 17       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 18       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 19       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 20       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 21       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 22       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 23       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |
| 24       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |          |

Watchkeeper(s): \_\_\_\_\_

Bottom Depth: 86 m

Transmisso Cleaned: Y / N

| Time   | UTC | Local |
|--------|-----|-------|
| Start  | 322 |       |
| Bottom |     |       |
| End    |     |       |

Positional Information

Start Lat: 51 ° 55'19 N  
Lon: 127 ° 28.598 W

Start

Bottom Lat: ° N  
Lon: ° W

Bottom

End Lat: ° N  
Lon: ° W

End

Oxygen Info For This Cast

Blank Value: \_\_\_\_\_ mL · L<sup>-1</sup>

Std Value: \_\_\_\_\_ mL · L<sup>-1</sup>

\*Date Run: \_\_\_\_ | \_\_\_\_ | \_\_\_\_

Analyst: \_\_\_\_\_

\* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28 Station: BE1 Event #: 10 Ship: Vector UTC Date (dd|mmm|yyyy): 03 | 04 | 2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |                                                        | Samples Taken |     |     |       |                 |  |  |  |  |  | Comments |
|----------|----------|-------------------|----------------------------|-------------------|--------------------------------------------------------|---------------|-----|-----|-------|-----------------|--|--|--|--|--|----------|
|          |          | Flask Serial #    | Value mL · L <sup>-1</sup> | Target Pressure   | Confirmed <input checked="" type="checkbox"/> Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |  |  |          |
| 1        | 28       | 1413              | 6.184                      | B-5               | 221                                                    |               |     | X   |       |                 |  |  |  |  |  | 10:15    |
| 2        | 29       | 1418              | 6.358                      | 200               | 200                                                    |               |     |     |       |                 |  |  |  |  |  | 10:19    |
| 3        | 30       | 1421              | 6.079                      | 175               | 175                                                    |               |     |     |       |                 |  |  |  |  |  |          |
| 4        | 31       | 1426              | 5.937                      | 150               | 150                                                    |               |     |     |       |                 |  |  |  |  |  | 10:24    |
| 5        | 32       | 1427              | 6.109                      | 125               | 125                                                    |               |     |     |       |                 |  |  |  |  |  | 10:28    |
| 6        | 33       | 1448              | 6.295                      | 100               | 100                                                    |               |     |     |       |                 |  |  |  |  |  | 10:31    |
| 7        | 34       | /                 |                            | 75                | 75                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 8        | 35       | 1430              | 6.486                      | 50                | 50                                                     |               |     |     |       |                 |  |  |  |  |  | 10:34    |
| 9        | 36       | 1432              | 6.639                      | 30                | 30                                                     |               |     |     |       |                 |  |  |  |  |  | 10:38    |
| 10       | 37       | 1433              | 6.657                      | 20                | 20                                                     |               |     |     |       |                 |  |  |  |  |  | 10:39    |
| 11       | 38       | 1434              | 6.143                      | 10                | 10                                                     |               |     |     |       |                 |  |  |  |  |  | 10:42    |
| 12       | 39       | 1440              | 6.749                      | 0                 | 2                                                      |               |     |     |       |                 |  |  |  |  |  | 10:45    |
| 13       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 14       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 15       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 16       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 17       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 18       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 19       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 20       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 21       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 22       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 23       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 24       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |

Watchkeeper(s):

Bottom Depth: 226 m  
Transmisso Cleaned: ☒ Y / ☐ N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 0409 |       |
| Bottom |      |       |
| End    |      |       |

Positional Information  
Start Lat: 51 ° 7.685 N  
Lon: 127 ° 34.298 W

Start

Bottom

Lat: ° N  
Lon: ° W

End

Lat: ° N  
Lon: ° W

Oxygen Info For This Cast  
Blank Value: mL · L<sup>-1</sup>  
Std Value: mL · L<sup>-1</sup>  
\*Date Run: | |  
Analyst:  
\* Oxygen blanks and standards should be run daily, if possible

# Water Properties Group

# Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28

Station: BE3

Event #: 11

Ship: Vector

UTC Date (dd|mmm|yyyy): 03 | 04 | 2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |                                                        | Samples Taken |     |     |       |                 |  |  |  | Comments      |
|----------|----------|-------------------|----------------------------|-------------------|--------------------------------------------------------|---------------|-----|-----|-------|-----------------|--|--|--|---------------|
|          |          | Flask Serial #    | Value mL · L <sup>-1</sup> | Target Pressure   | Confirmed <input checked="" type="checkbox"/> Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |               |
| 1        | 40       | 1424              | 2.397                      | B-5               | 279                                                    |               |     | X   |       |                 |  |  |  |               |
| 2        | 41       | 705               | 2.316                      | 250               | 250                                                    |               |     |     |       |                 |  |  |  |               |
| 3        | 42       | 1247              | 2.539                      | 200               | 200                                                    |               |     |     |       |                 |  |  |  |               |
| 4        | 43       | 1228              | 2.906                      | 175               | 175                                                    |               |     |     |       |                 |  |  |  |               |
| 5        | 44       | 1230              | 3.264                      | 150               | 150                                                    |               |     |     |       |                 |  |  |  |               |
| 6        | 45       | 1238              | 3.912                      | 125               | 125                                                    |               |     |     |       |                 |  |  |  |               |
| 7        | 46       | 1241              | 4.891                      | 100               | 100                                                    |               |     |     |       |                 |  |  |  |               |
| 8        | 47       | 1244              | 5.084                      | 75                | 75                                                     |               |     |     |       |                 |  |  |  |               |
| 9        | 48       | 1267              | 5.211                      | 50                | 50                                                     |               |     |     |       |                 |  |  |  |               |
| 10       | 49       | 1268              | 5.784                      | 30                | 30                                                     |               |     |     |       |                 |  |  |  |               |
| 11       | 50       | 1271              | 5.968                      | 20                | 20                                                     |               |     |     |       |                 |  |  |  | beaker # 1352 |
| 12       | 51       | 1274              | 5.538                      | 10                | 10                                                     |               |     |     |       |                 |  |  |  |               |
| 13       | 52       | 1276              | 7.681                      | 0                 |                                                        |               |     |     |       |                 |  |  |  |               |
| 14       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |               |
| 15       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |               |
| 16       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |               |
| 17       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |               |
| 18       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |               |
| 19       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |               |
| 20       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |               |
| 21       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |               |
| 22       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |               |
| 23       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |               |
| 24       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |               |

Watchkeeper(s): \_\_\_\_\_

Bottom Depth: 289 m

Transmisso Cleaned: ☒ / N

| Time   | UTC | Local |
|--------|-----|-------|
| Start  | 526 |       |
| Bottom |     |       |
| End    |     |       |

## Positional Information

Start  
 Lat: 51 ° 7.853 N  
 Lon: 177 ° 22.165 W

Bottom  
 Lat: ° N  
 Lon: ° W

End  
 Lat: ° N  
 Lon: ° W

## Oxygen Info For This Cast

Blank Value: \_\_\_\_\_ mL · L<sup>-1</sup>

Std Value: \_\_\_\_\_ mL · L<sup>-1</sup>

\*Date Run: \_\_\_\_ | \_\_\_\_ | \_\_\_\_

Analyst: \_\_\_\_\_

\* Oxygen blanks and standards should be run daily, if possible

# Water Properties Group

# Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28

Station: BES

Event #: 12

Ship: Veeco

UTC Date (dd|mmm|yyyy): 03 | 04 | 2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |                                                        | Samples Taken |     |     |       |                 |  |  |  |  |  | Comments |
|----------|----------|-------------------|----------------------------|-------------------|--------------------------------------------------------|---------------|-----|-----|-------|-----------------|--|--|--|--|--|----------|
|          |          | Flask Serial #    | Value mL * L <sup>-1</sup> | Target Pressure   | Confirmed <input checked="" type="checkbox"/> Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |  |  |          |
| 1        | 53       | 1413              | 2.231                      | B-5               | 282                                                    | 1             |     | X   |       |                 |  |  |  |  |  |          |
| 2        | 54       | 1418              | 2.289                      | 250               | 250                                                    |               |     |     |       |                 |  |  |  |  |  |          |
| 3        | 55       | 1421              | 2.551                      | 200               | 200                                                    |               |     |     |       |                 |  |  |  |  |  |          |
| 4        | 56       | 1426              | 2.429                      | 175               | 175                                                    |               |     |     |       |                 |  |  |  |  |  |          |
| 5        | 57       | 1427              | 2.494                      | 150               | 150                                                    |               |     |     |       |                 |  |  |  |  |  |          |
| 6        | 58       | 1428              | 2.520                      | 125               | 125                                                    |               |     |     |       |                 |  |  |  |  |  |          |
| 7        | 59       | 1429              | 2.834                      | 100               | 100                                                    |               |     |     |       |                 |  |  |  |  |  |          |
| 8        | 60       | 1430              | 2.974                      | 75                | 75                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 9        | 61       | 1432              | 2.820                      | 50                | 50                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 10       | 62       | 1433              | 4.086                      | 30                | 30                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 11       | 63       | 1434              | 5.037                      | 20                | 20                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 12       | 64       | 1440              | 5.465                      | 10                | 10                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 13       | 65       |                   |                            | 0                 |                                                        |               |     |     |       |                 |  |  |  |  |  | Mrs Fire |
| 14       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 15       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 16       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 17       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 18       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 19       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 20       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 21       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 22       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 23       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 24       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |

Watchkeeper(s): \_\_\_\_\_

Bottom Depth: 282 m

Transmisso Cleaned: Y / N

| Time   | UTC | Local |
|--------|-----|-------|
| Start  | 646 |       |
| Bottom |     |       |
| End    |     |       |

Positional Information

Start Lat: 51° 7.205 N

Lon: 127° 8.788 W

Start

Bottom

End

Lat: ° N

Lon: ° W

Lat: ° N

Lon: ° W

## Oxygen Info For This Cast

Blank Value: \_\_\_\_\_ mL \* L<sup>-1</sup>

Std Value: \_\_\_\_\_ mL \* L<sup>-1</sup>

\*Date Run: \_\_\_\_ | \_\_\_\_ | \_\_\_\_

Analyst: \_\_\_\_\_

\* Oxygen blanks and standards should be run daily, if possible

# Water Properties Group

## Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28

Station: ALSI

Event #: 13

Ship: Vector

UTC Date (dd|mmm|yyyy): 03 | Apr | 2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |                                                        | Samples Taken |     |     |       |                 |  |  |  | Comments |
|----------|----------|-------------------|----------------------------|-------------------|--------------------------------------------------------|---------------|-----|-----|-------|-----------------|--|--|--|----------|
|          |          | Flask Serial #    | Value mL · L <sup>-1</sup> | Target Pressure   | Confirmed <input checked="" type="checkbox"/> Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |          |
| 1        | 66       | 638               | 0.738                      | B-5               | 149                                                    |               |     |     |       |                 |  |  |  |          |
| 2        | 67       | 639               | 0.659                      | 130               | 149                                                    |               |     |     |       |                 |  |  |  |          |
| 3        | 68       | 647               | 0.834                      | 125               | 125                                                    |               |     |     |       |                 |  |  |  |          |
| 4        | 69       | 657               | 0.879                      | 100               | 100                                                    |               |     |     |       |                 |  |  |  |          |
| 5        | 70       | 690               | 1.754                      | 75                | 75                                                     |               |     |     |       |                 |  |  |  |          |
| 6        | 71       | 700               | 4.362                      | 50                | 50                                                     |               |     |     |       |                 |  |  |  |          |
| 7        | 72       | 1138              | 4.149                      | 30                | 30                                                     |               |     |     |       |                 |  |  |  |          |
| 8        | 73       | 712               | 3.968                      | 20                | 20                                                     |               |     |     |       |                 |  |  |  |          |
| 9        | 74       | 715               | 4.358                      | 10                | 10                                                     |               |     |     |       |                 |  |  |  |          |
| 10       | 75       | 1105              | 9.337                      | 0                 | 2.8                                                    |               |     |     |       |                 |  |  |  |          |
| 11       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 12       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 13       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 14       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 15       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 16       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 17       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 18       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 19       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 20       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 21       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 22       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 23       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 24       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |

Watchkeeper(s): \_\_\_\_\_

Bottom Depth: 154 m

Transmisso Cleaned: ☒ Y / ☐ N

| Time   | UTC         | Local |
|--------|-------------|-------|
| Start  | <u>1455</u> |       |
| Bottom |             |       |
| End    |             |       |

### Positional Information

Start  
 Lat: 51 ° 10.118 N  
 Lon: 127 ° 5.848 W

Bottom  
 Lat: ° N  
 Lon: ° W

End  
 Lat: ° N  
 Lon: ° W

### Oxygen Info For This Cast

Blank Value: \_\_\_\_\_ mL · L<sup>-1</sup>

Std Value: \_\_\_\_\_ mL · L<sup>-1</sup>

\*Date Run: \_\_\_\_ | \_\_\_\_ | \_\_\_\_

Analyst: \_\_\_\_\_

\* Oxygen blanks and standards should be run daily, if possible

# Water Properties Group

# Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28 Station: ALSZ Event #: 14 Ship: Vedenev UTC Date (dd|mmm|yyyy): 3 | 4 | 2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |                                                        | Samples Taken |     |     |       |                 |  |  |  | Comments |
|----------|----------|-------------------|----------------------------|-------------------|--------------------------------------------------------|---------------|-----|-----|-------|-----------------|--|--|--|----------|
|          |          | Flask Serial #    | Value mL · L <sup>-1</sup> | Target Pressure   | Confirmed <input checked="" type="checkbox"/> Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |          |
| 1        | 76       | 1106              | 0.737                      | B-5               |                                                        | 105           |     |     |       |                 |  |  |  |          |
| 2        | 77       | 1110              | 0.602                      | 100               |                                                        | 100           |     |     |       |                 |  |  |  |          |
| 3        | 78       | 1123              | 0.876                      | 75                |                                                        | 75            |     |     |       |                 |  |  |  |          |
| 4        | 79       | 1142              | 3.847                      | 50                |                                                        | 50            |     |     |       |                 |  |  |  |          |
| 5        | 80       | 1144              | 3.837                      | 30                |                                                        | 30            |     |     |       |                 |  |  |  |          |
| 6        | 81       | 1487              | 3.566                      | 20                |                                                        | 20            |     |     |       |                 |  |  |  |          |
| 7        | 82       |                   |                            | 10                |                                                        | 10            |     |     |       |                 |  |  |  |          |
| 8        | 83       | 1158              | 9.084                      | 0                 |                                                        | 2.3           |     |     |       |                 |  |  |  |          |
| 9        |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 10       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 11       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 12       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 13       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 14       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 15       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 16       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 17       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 18       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 19       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 20       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 21       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 22       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 23       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |
| 24       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |          |

Watchkeeper(s): \_\_\_\_\_

Bottom Depth: 108 m

Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1529 |       |
| Bottom |      |       |
| End    |      |       |

Positional Information

Start Lat: 51 ° 10.196 N  
 Lon: 127 ° 2.475 W

Bottom Lat: ° N  
 Lon: ° W

End Lat: ° N  
 Lon: ° W

Oxygen Info For This Cast

Blank Value: \_\_\_\_\_ mL · L<sup>-1</sup>  
 Std Value: \_\_\_\_\_ mL · L<sup>-1</sup>  
 \*Date Run: \_\_\_\_ | \_\_\_\_ | \_\_\_\_  
 Analyst: \_\_\_\_\_

\* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28 Station: AL53 Event #: 15 Ship: Vector UTC Date (dd|mmm|yyyy): 3 | 4 | 2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |                                                        | Samples Taken |     |     |       |                 |  |  |  |  |  | Comments                         |
|----------|----------|-------------------|----------------------------|-------------------|--------------------------------------------------------|---------------|-----|-----|-------|-----------------|--|--|--|--|--|----------------------------------|
|          |          | Flask Serial #    | Value mL * L <sup>-1</sup> | Target Pressure   | Confirmed <input checked="" type="checkbox"/> Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |  |  |                                  |
| 1        | 84       | 76                | 0.0                        | B-5               | 132                                                    | 1             |     | X   |       |                 |  |  |  |  |  | pres. 0.0 flat line on titration |
| 2        | 85       | 632               | 0.0                        | 125               | 125                                                    |               |     |     |       |                 |  |  |  |  |  | ditto                            |
| 3        | 86       | 329               | 0.0                        | 100               | 100                                                    |               |     |     |       |                 |  |  |  |  |  | ditto                            |
| 4        | 87       | 425               | 0.0                        | 75                | 75                                                     |               |     |     |       |                 |  |  |  |  |  | ditto                            |
| 5        | 88       | 371               | 0.049                      | 30                | 50                                                     |               |     |     |       |                 |  |  |  |  |  |                                  |
| 6        | 89       | 439               | 2.009                      | 30                | 30                                                     |               |     |     |       |                 |  |  |  |  |  |                                  |
| 7        | 90       | 456               | 2.757                      | 20                | 20                                                     |               |     |     |       |                 |  |  |  |  |  |                                  |
| 8        | 91       | 462               | 2.585                      | 10                | 10                                                     |               |     |     |       |                 |  |  |  |  |  |                                  |
| 9        | 92       | 471               | 8.098                      | 0                 | 2.3                                                    |               |     |     |       |                 |  |  |  |  |  |                                  |
| 10       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |
| 11       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |
| 12       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |
| 13       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |
| 14       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |
| 15       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |
| 16       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |
| 17       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |
| 18       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |
| 19       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |
| 20       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |
| 21       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |
| 22       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |
| 23       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |
| 24       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |                                  |

Watchkeeper(s):

Bottom Depth: 136 m  
Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1624 |       |
| Bottom |      |       |
| End    |      |       |

Positional Information  
Start Lat: 51 ° 10.001 N  
Lon: 126 ° 56.813 W

Bottom Lat: ° N  
Lon: ° W

End Lat: ° N  
Lon: ° W

Oxygen Info For This Cast  
Blank Value: mL \* L<sup>-1</sup>  
Std Value: mL \* L<sup>-1</sup>  
\*Date Run: | |  
Analyst:

\* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28 Station: AL54 Event #: 16 Ship: Vector UTC Date (dd|mmm|yyyy): 03 | 04 | 2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |                                                        | Samples Taken |     |     |       |                 |  |  |  |  |  | Comments |
|----------|----------|-------------------|----------------------------|-------------------|--------------------------------------------------------|---------------|-----|-----|-------|-----------------|--|--|--|--|--|----------|
|          |          | Flask Serial #    | Value mL · L <sup>-1</sup> | Target Pressure   | Confirmed <input checked="" type="checkbox"/> Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |  |  |          |
| 1        | 93       | 547               | 0.012                      | B-5               | 70                                                     | 1             |     | ✓   |       |                 |  |  |  |  |  |          |
| 2        | 94       | 2040              | 0.224                      | 30                | 50                                                     | 1             |     |     |       |                 |  |  |  |  |  |          |
| 3        | 95       | 557               | 1.999                      | 30                | 30                                                     | 1             |     |     |       |                 |  |  |  |  |  |          |
| 4        | 96       | 559               | 2.307                      | 20                | 20                                                     | 1             |     |     |       |                 |  |  |  |  |  |          |
| 5        | 97       | 575               | 2.330                      | 10                | 10                                                     | 1             |     |     |       |                 |  |  |  |  |  |          |
| 6        | 98       | 586               | 8.034                      | 0                 | 0                                                      | 1             |     |     |       |                 |  |  |  |  |  |          |
| 7        |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 8        |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 9        |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 10       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 11       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 12       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 13       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 14       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 15       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 16       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 17       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 18       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 19       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 20       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 21       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 22       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 23       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 24       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |

Watchkeeper(s):

Bottom Depth: 74 m  
Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1655 |       |
| Bottom |      |       |
| End    |      |       |

Positional Information

|       |                       |
|-------|-----------------------|
| Start | Lat: 51 ° 10' 838" N  |
|       | Lon: 126 ° 55' 452" W |

Bottom

|          |
|----------|
| Lat: ° N |
| Lon: ° W |

End

|          |
|----------|
| Lat: ° N |
| Lon: ° W |

Oxygen Info For This Cast

|                                   |
|-----------------------------------|
| Blank Value: mL · L <sup>-1</sup> |
| Std Value: mL · L <sup>-1</sup>   |
| *Date Run:                        |
| Analyst:                          |

\* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28 Station: SM5A Event #: 22 Ship: Vector UTC Date (dd|mmm|yyyy): 06 | 04 | 2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |                                                        | Samples Taken |     |     |       |                 |  |  |  |  |  | Comments |
|----------|----------|-------------------|----------------------------|-------------------|--------------------------------------------------------|---------------|-----|-----|-------|-----------------|--|--|--|--|--|----------|
|          |          | Flask Serial #    | Value mL • L <sup>-1</sup> | Target Pressure   | Confirmed <input checked="" type="checkbox"/> Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |  |  |          |
| 1        | 99       | 76                | 2.927                      | B-2               | 62                                                     | 1             |     | *   |       |                 |  |  |  |  |  |          |
| 2        | 100      | 632               | 2.900                      | 50                | 50                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 3        | 101      | 329               | 2.755                      | 30                | 30                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 4        | 102      | 425               | 3.552                      | 20                | 20                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 5        | 103      | 439               | 6.095                      | 10                | 10                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 6        | 104      | 371               | 11.084                     | Surface           | 2.8                                                    |               |     |     |       |                 |  |  |  |  |  |          |
| 7        |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 8        |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 9        |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 10       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 11       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 12       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 13       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 14       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 15       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 16       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 17       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 18       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 19       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 20       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 21       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 22       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 23       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 24       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |

Watchkeeper(s):

Bottom Depth: 65 m  
Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1410 |       |
| Bottom |      |       |
| End    |      |       |

Positional Information  
Start Lat: 51 ° 21.103 N  
Lon: 127 ° 4.022 W

Bottom Lat: ° N  
Lon: ° W

End Lat: ° N  
Lon: ° W

Oxygen Info For This Cast  
Blank Value: mL • L<sup>-1</sup>  
Std Value: mL • L<sup>-1</sup>  
\*Date Run: 08 | 04 | 2008  
Analyst: V. Spear

\* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28 Station: SM4 Event #: 23 Ship: Vector UTC Date (dd|mmm|yyyy): 06 | 04 | 2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |                                                        | Samples Taken |     |     |       |                 |  |  |  |  |  | Comments     |
|----------|----------|-------------------|----------------------------|-------------------|--------------------------------------------------------|---------------|-----|-----|-------|-----------------|--|--|--|--|--|--------------|
|          |          | Flask Serial #    | Value mL • L <sup>-1</sup> | Target Pressure   | Confirmed <input checked="" type="checkbox"/> Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |  |  |              |
| 1        | 105      | 456               | 0                          | B-5               | 185                                                    |               |     | X   |       |                 |  |  |  |  |  |              |
| 2        | 106      | 462               | 0                          | 150               | 150                                                    |               |     |     |       |                 |  |  |  |  |  | Should be ~0 |
| 3        | 107      | 471               | 0                          | 125               | 125                                                    |               |     |     |       |                 |  |  |  |  |  |              |
| 4        | 108      | 547               | 0.100                      | 100               | 100                                                    |               |     |     |       |                 |  |  |  |  |  |              |
| 5        | 109      | 2040              | 3.490                      | 75                | 75                                                     |               |     |     |       |                 |  |  |  |  |  |              |
| 6        | 110      | 557               | 4.094                      | 50                | 50                                                     |               |     |     |       |                 |  |  |  |  |  |              |
| 7        | 111      | 559               | 3.632                      | 30                | 30                                                     |               |     |     |       |                 |  |  |  |  |  |              |
| 8        | 112      | 575               | 3.952                      | 20                | 20                                                     |               |     |     |       |                 |  |  |  |  |  |              |
| 9        | 113      | 586               | 4.358                      | 10                | 10                                                     |               |     |     |       |                 |  |  |  |  |  |              |
| 10       | 114      | 589               | 10.727                     | 0                 | 2.9                                                    |               |     |     |       |                 |  |  |  |  |  |              |
| 11       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |              |
| 12       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |              |
| 13       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |              |
| 14       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |              |
| 15       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |              |
| 16       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |              |
| 17       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |              |
| 18       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |              |
| 19       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |              |
| 20       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |              |
| 21       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |              |
| 22       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |              |
| 23       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |              |
| 24       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |              |

Watchkeeper(s):

Bottom Depth: 190 m  
Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1447 |       |
| Bottom |      |       |
| End    |      |       |

Positional Information  
Start Lat: 51 ° 21.515 N  
Lon: 127 ° 9.090 W

Bottom Lat: ° N  
Lon: ° W

End Lat: ° N  
Lon: ° W

Oxygen Info For This Cast  
Blank Value: mL • L<sup>-1</sup>  
Std Value: mL • L<sup>-1</sup>  
\*Date Run: 08 | 04 | 2008  
Analyst: D. Spear

\* Oxygen blanks and standards should be run daily, if possible

# Water Properties Group

# Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28

Station: SM3

Event #: 24

Ship: Vector

UTC Date (dd|mmm|yyyy): 06 | 04 | 2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |                                                        | Samples Taken |     |     |       |                 |  |  |  |  |  | Comments |
|----------|----------|-------------------|----------------------------|-------------------|--------------------------------------------------------|---------------|-----|-----|-------|-----------------|--|--|--|--|--|----------|
|          |          | Flask Serial #    | Value mL · L <sup>-1</sup> | Target Pressure   | Confirmed <input checked="" type="checkbox"/> Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |  |  |          |
| 1        | 115      | 604               | 1.407                      | 0-5               | 321                                                    | 1             |     | X   |       |                 |  |  |  |  |  |          |
| 2        | 116      | 605               | 1.318                      | 250               | 250                                                    |               |     |     |       |                 |  |  |  |  |  |          |
| 3        | 117      | 611               | 1.647                      | 200               | 200                                                    |               |     |     |       |                 |  |  |  |  |  |          |
| 4        | 118      | 620               | 1.837                      | 175               | 175                                                    |               |     |     |       |                 |  |  |  |  |  |          |
| 5        | 119      | 621               | 2.113                      | 150               | 150                                                    |               |     |     |       |                 |  |  |  |  |  |          |
| 6        | 120      | 622               | 2.567                      | 125               | 125                                                    |               |     |     |       |                 |  |  |  |  |  |          |
| 7        | 121      | 631               | 3.258                      | 100               | 100                                                    |               |     |     |       |                 |  |  |  |  |  |          |
| 8        | 122      | 1486              | 3.769                      | 75                | 75                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 9        | 123      | 639               | 5.354                      | 50                | 50                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 10       | 124      | 638               | 4.731                      | 30                | 30                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 11       | 125      | 657               | 4.666                      | 20                | 20                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 12       | 126      | 647               | 5.052                      | 10                | 10                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 13       | 127      | 700               | 6.724                      | 0                 | 28                                                     |               |     |     |       |                 |  |  |  |  |  |          |
| 14       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 15       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 16       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 17       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 18       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 19       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 20       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 21       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 22       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 23       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |
| 24       |          |                   |                            |                   |                                                        |               |     |     |       |                 |  |  |  |  |  |          |

Watchkeeper(s): \_\_\_\_\_

Bottom Depth: 329 m

Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1542 |       |
| Bottom |      |       |
| End    |      |       |

Positional Information

Start Lat: 51 ° 18.502 N

Lon: 127 ° 14.615 W

Bottom Lat: ° N

Lon: ° W

End Lat: ° N

Lon: ° W

Oxygen Info For This Cast

Blank Value: \_\_\_\_\_ mL · L<sup>-1</sup>

Std Value: \_\_\_\_\_ mL · L<sup>-1</sup>

\*Date Run: 06 | 04 | 2008

Analyst: D. Soper

\* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28 Station: Sm2 Event #: 25 Ship: Vector UTC Date (dd|mmm|yyyy): 06 | 04 | 2008

| Niskin # | Sample # | Oxygen Titrations |                            | Rosette Operation |                    | Samples Taken |     |     |       |                 |  |  |  |  |  | Comments                |
|----------|----------|-------------------|----------------------------|-------------------|--------------------|---------------|-----|-----|-------|-----------------|--|--|--|--|--|-------------------------|
|          |          | Flask Serial #    | Value mL • L <sup>-1</sup> | Target Pressure   | Confirmed Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |  |  |                         |
| 1        | 128      | 690               | 1.412                      | B-5               | 373                |               |     | X   |       |                 |  |  |  |  |  |                         |
| 2        | 129      | 1138              | 1.522                      | 300               | 300                |               |     |     |       |                 |  |  |  |  |  |                         |
| 3        | 130      | 712               | 1.569                      | 250               | 250                |               |     |     |       |                 |  |  |  |  |  |                         |
| 4        | 131      | 715               | 1.820                      | 200               | 200                |               |     |     |       |                 |  |  |  |  |  |                         |
| 5        | 132      | 1106              | 2.122                      | 175               | 175                |               |     |     |       |                 |  |  |  |  |  |                         |
| 6        | 133      | 1105              | 2.365                      | 150               | 150                |               |     |     |       |                 |  |  |  |  |  |                         |
| 7        | 134      | 1110              |                            | 125               | 125                |               |     |     |       |                 |  |  |  |  |  | Forgot to write it down |
| 8        | 135      | 1213              | 4.120                      | 100               | 100                |               |     |     |       |                 |  |  |  |  |  |                         |
| 9        | 136      | 1123              | 4.743                      | 75                | 75                 |               |     |     |       |                 |  |  |  |  |  |                         |
| 10       | 137      | 1487              | 5.675                      | 50                | 50                 |               |     |     |       |                 |  |  |  |  |  |                         |
| 11       | 138      | 1144              | 5.766                      | 30                | 30                 |               |     |     |       |                 |  |  |  |  |  |                         |
| 12       | 139      | 1150              | 5.620                      | 20                | 20                 |               |     |     |       |                 |  |  |  |  |  |                         |
| 13       | 140      | 1158              | 6.010                      | 10                | 10                 |               |     |     |       |                 |  |  |  |  |  |                         |
| 14       | 141      | 1174              | 6.898                      | 0                 |                    |               |     |     |       |                 |  |  |  |  |  |                         |
| 15       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |                         |
| 16       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |                         |
| 17       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |                         |
| 18       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |                         |
| 19       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |                         |
| 20       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |                         |
| 21       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |                         |
| 22       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |                         |
| 23       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |                         |
| 24       |          |                   |                            |                   |                    |               |     |     |       |                 |  |  |  |  |  |                         |

Watchkeeper(s):

Bottom Depth: 374 m  
Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1639 |       |
| Bottom |      |       |
| End    |      |       |

Positional Information  
Start  
Lat: 51 ° 17.992 N  
Lon: 127 ° 22.363 W

Bottom  
Lat: ° N  
Lon: ° W

End  
Lat: ° N  
Lon: ° W

Oxygen Info For This Cast  
Blank Value: mL • L<sup>-1</sup>  
Std Value: mL • L<sup>-1</sup>  
\*Date Run: | |  
Analyst:

\* Oxygen blanks and standards should be run daily, if possible

# Water Properties Group

# Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2008-28 Station: SM1 Event #: 26 Ship: Vedette UTC Date (dd|mmm|yyyy): 06 | 04 | 2008

| Niskin # | Sample # | Oxygen Titrations                                                             |                            | Rosette Operation |                      | Samples Taken |     |     |       |                 |  |  |  |  |  | Comments |
|----------|----------|-------------------------------------------------------------------------------|----------------------------|-------------------|----------------------|---------------|-----|-----|-------|-----------------|--|--|--|--|--|----------|
|          |          | Flask Serial #                                                                | Value mL · L <sup>-1</sup> | Target Pressure   | Confirmed √ Pressure | Oxy           | Nut | Sal | Chl a | NH <sub>4</sub> |  |  |  |  |  |          |
| 1        | 142      | 1175                                                                          | 1.920                      | 13.5              | 208                  |               |     | X   |       |                 |  |  |  |  |  |          |
| 2        | 143      | 1176                                                                          | 2.193                      | 175               | 175                  |               |     |     |       |                 |  |  |  |  |  |          |
| 3        | 144      | 1146                                                                          | 2.563                      | 150               | 150                  |               |     |     |       |                 |  |  |  |  |  |          |
| 4        | 145      | 1180                                                                          | 4.297                      | 125               | 125                  |               |     |     |       |                 |  |  |  |  |  |          |
| 5        | 146      | 1414                                                                          | 4.931                      | 100               | 100                  |               |     |     |       |                 |  |  |  |  |  |          |
| 6        | 147      | 1413                                                                          | 5.695                      | 75                | 75                   |               |     |     |       |                 |  |  |  |  |  |          |
| 7        | 148      | 1418                                                                          | 6.166                      | 50                | 50                   |               |     |     |       |                 |  |  |  |  |  |          |
| 8        | 149      | 1421                                                                          | 6.068                      | 30                | 30                   |               |     |     |       |                 |  |  |  |  |  |          |
| 9        | 150      | 1427                                                                          | 6.105                      | 20                | 20                   |               |     |     |       |                 |  |  |  |  |  |          |
| 10       | 151      | 1428                                                                          | 6.091                      | 10                | 10                   |               |     |     |       |                 |  |  |  |  |  |          |
| 11       | 152      | 1426                                                                          | 8.259                      | 0                 | 2.9                  |               |     |     |       |                 |  |  |  |  |  |          |
| 12       |          |                                                                               |                            |                   |                      |               |     |     |       |                 |  |  |  |  |  |          |
| 13       |          |                                                                               |                            |                   |                      |               |     |     |       |                 |  |  |  |  |  |          |
| 14       |          |                                                                               |                            |                   |                      |               |     |     |       |                 |  |  |  |  |  |          |
| 15       |          | Samples 147 - 152 temporarily misplaced in PGC cooler d run 09/04/2008 @ 0830 |                            |                   |                      |               |     |     |       |                 |  |  |  |  |  |          |
| 16       |          |                                                                               |                            |                   |                      |               |     |     |       |                 |  |  |  |  |  |          |
| 17       |          |                                                                               |                            |                   |                      |               |     |     |       |                 |  |  |  |  |  |          |
| 18       |          |                                                                               |                            |                   |                      |               |     |     |       |                 |  |  |  |  |  |          |
| 19       |          |                                                                               |                            |                   |                      |               |     |     |       |                 |  |  |  |  |  |          |
| 20       |          |                                                                               |                            |                   |                      |               |     |     |       |                 |  |  |  |  |  |          |
| 21       |          |                                                                               |                            |                   |                      |               |     |     |       |                 |  |  |  |  |  |          |
| 22       |          |                                                                               |                            |                   |                      |               |     |     |       |                 |  |  |  |  |  |          |
| 23       |          |                                                                               |                            |                   |                      |               |     |     |       |                 |  |  |  |  |  |          |
| 24       |          |                                                                               |                            |                   |                      |               |     |     |       |                 |  |  |  |  |  |          |

Watchkeeper(s): \_\_\_\_\_

Bottom Depth: 217 m

Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1742 |       |
| Bottom |      |       |
| End    |      |       |

## Positional Information

Start Lat: 51 ° 18.725 N  
Lon: 127 ° 30.013 W

Bottom Lat: ° N  
Lon: ° W

End Lat: ° N  
Lon: ° W

## Oxygen Info For This Cast

Blank Value: \_\_\_\_\_ mL · L<sup>-1</sup>  
Std Value: \_\_\_\_\_ mL · L<sup>-1</sup>  
\*Date Run: 08 | 04 | 2008  
Analyst: D. Spear

\* Oxygen blanks and standards should be run daily, if possible