

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences  
Water Properties Group



Last Updated: December 2019

| Cruise and Analysis Information                                                |                                | Nisk ID | Nisk Int V S | Sample ID | Flask 1 | Draw Temp 1 (°C) | OXY-1 (mL/L) | OXY-1 Comments            | Nisk ID | Sample ID | Flask 2 | Draw Temp 2 (°C) | OXY-2 (mL/L) | OXY-2 Comments      |
|--------------------------------------------------------------------------------|--------------------------------|---------|--------------|-----------|---------|------------------|--------------|---------------------------|---------|-----------|---------|------------------|--------------|---------------------|
| Cruise Number:                                                                 | 2024-028                       | 1       |              | 38        | 1480    | 6.9              | 0.496        | big bubble. seal OK.      | 1       |           |         |                  |              |                     |
| Event:                                                                         | 104                            | 2       |              | 39        | 183     | 7.1              | 0.276        | big bubble. seal OK       | 2       |           |         |                  |              |                     |
| Station:                                                                       | BP01                           | 3       |              | 40A       | 3073    | 7.4              | 0.274        | big bubble. seal OK       | 3       | 40B       | 911     | 7.5              | 0.272        | big bubble. seal OK |
| Event Date (Local):                                                            | 2024-10-11                     | 4       |              | 41        | 2084    | 7.9              | 0.487        |                           | 4       |           |         |                  |              |                     |
| Analysis Date (Local):                                                         | 31 Oct 2024                    | 5       |              | 42        | 172     | 8.5              | 1.037        |                           | 5       |           |         |                  |              |                     |
| Analyst:                                                                       | ER                             | 6       |              | 43        | 3176    | 8.9              | 1.834        | 1.384                     | 6       |           |         |                  |              |                     |
| Stdization Date (Local):                                                       | 30 Oct 2024                    | 7       |              | 44        | 1459    | 9.2              | 1.697        |                           | 7       |           |         |                  |              |                     |
| KIO <sub>3</sub> N:                                                            | 0.4847151                      | 8       |              | 45        | 137     | 9.5              | 1.989        |                           | 8       |           |         |                  |              |                     |
| Standard Titer:                                                                | 0.0119845                      | 9       |              | 46        | 1408    | 9.7              | 1.982        |                           | 9       |           |         |                  |              |                     |
| Blank Titer:                                                                   | 0.0002168                      | 10      |              | 47        | 3173    | 9.9              | 2.354        |                           | 10      |           |         |                  |              |                     |
| THIO N:                                                                        | 0.247456                       | 11      |              | 48        | 3170    | 10.1             | 2.528        |                           | 11      |           |         |                  |              |                     |
| Sample Flask Water Seal?                                                       | Yes                            | 12      |              | 49        | 103     | 10.5             | 2.743        |                           | 12      |           |         |                  |              |                     |
|                                                                                | No                             | 13      |              | 50A       | 3021    | 10.5             | 3.416        |                           | 13      | 50B       | 1458    | 10.5             | 3.421        |                     |
| Reagent Change?                                                                | MnCl <sub>2</sub>              | 14      |              | 51        | 184     | 10.9             | 4.062        |                           | 14      |           |         |                  |              |                     |
| (Please circle reagent that was changed prior to sampling and standardization) | NaI/NaOH                       | 15      |              | 52        | 3007    | 13.5             | 5.347        | Bottom Cap Leaking        | 15      |           |         |                  |              |                     |
| NOTE NEW BATCH IN LOG BOOK                                                     | H <sub>2</sub> SO <sub>4</sub> | 16      |              | 53        | 1321    | 14.5             |              | USED DUMMY FLASK VOL. FIX | 16      | 71322     |         |                  |              |                     |
|                                                                                | KIO <sub>3</sub>               | 17      |              | 54        | 396     | 14.7             |              |                           | 17      |           |         |                  |              |                     |
|                                                                                | THIO                           | 18      |              | 55        | 1333    | 14.8             |              |                           | 18      |           |         |                  |              |                     |

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| Cruise and Analysis Information                                                |                                |  |  |  |  |  | Nisk ID | Nisk Int V S | Sample ID | Flask 1 | Draw Temp 1 (°C) | OXY-1 (mL/L) | OXY-1 Comments                |          |          |
|--------------------------------------------------------------------------------|--------------------------------|--|--|--|--|--|---------|--------------|-----------|---------|------------------|--------------|-------------------------------|----------|----------|
| Cruise Number:                                                                 | 2024-028                       |  |  |  |  |  | 1       |              | 11        | 909     | 8.2              | 0.963        | white.                        |          |          |
| Event:                                                                         | 42                             |  |  |  |  |  | 2       |              | 12        | 1495    | 8.2              | 1.164        | Bubble in flask. Seal OK      |          |          |
| Station:                                                                       | VI07                           |  |  |  |  |  | 3       |              | 13        | 180     | 9.6              | 1.685        | White bubble in flask Seal OK |          |          |
| Event Date (Local):                                                            | 2024-10-04                     |  |  |  |  |  | 4       |              | 14        | 3065    | 9.1              | 2.401        |                               |          |          |
| Analysis Date (Local):                                                         | 31 Oct 2024                    |  |  |  |  |  | 5       |              | 15        | 1223    | 9.6              | 2.067        | in Flask # 3049               |          |          |
| Analyst:                                                                       | ER                             |  |  |  |  |  | 6       |              | 16A       | 3049    | 10.0             | 3.760        | in Flask #1223                |          |          |
| Stdization Date (Local):                                                       | 30 Oct 2024                    |  |  |  |  |  | 7       |              | 17        | 136     | 10.7             | 5.102        |                               |          |          |
| KIO <sub>3</sub> N:                                                            | 0.4847151                      |  |  |  |  |  | 8       |              | 18        | 3076    | 12.1             | 6.062        |                               |          |          |
| Standard Titer:                                                                | 0.0002168                      |  |  |  |  |  | 9       |              | 19        | 1407    | 16.7             | 5.937        |                               |          |          |
| Blank Titer:                                                                   | 0.0002168                      |  |  |  |  |  | 10      |              | 20        | 998     | 17.0             | 5.920        |                               |          |          |
| THIO N:                                                                        | 0.247456                       |  |  |  |  |  | 11      |              | 21        | 18      | 17.0             | 5.928        |                               |          |          |
| Sample Flask Water Seal?                                                       | Yes                            |  |  |  |  |  | 12      |              | 22        | 933     | 17.1             | 5.930        |                               |          |          |
| Reagent Change?                                                                | MnCl <sub>2</sub>              |  |  |  |  |  | 13      |              | 11        |         | 12               | 13           | 14                            | 15       | 16A      |
| (Please circle reagent that was changed prior to sampling and standardization) | NaI/NaOH                       |  |  |  |  |  | 14      |              | OXY       |         | OXY              | OXY          | OXY                           | OXY      | OXY      |
| NOTE NEW BATCH IN LOG BOOK                                                     | H <sub>2</sub> SO <sub>4</sub> |  |  |  |  |  | 15      |              | VI07      |         | VI07             | VI07         | VI07                          | VI07     | VI07     |
|                                                                                | KIO <sub>3</sub>               |  |  |  |  |  | 16      |              | 2024-028  |         | 2024-028         | 2024-028     | 2024-028                      | 2024-028 | 2024-028 |
|                                                                                | THIO                           |  |  |  |  |  | 17      |              | BTM-10 m  |         | 400 m            | 300 m        | 200 m                         | 150 m    | 100 m    |
|                                                                                |                                |  |  |  |  |  | 18      |              | bot 1     |         | bot 2            | bot 3        | bot 4                         | bot 5    | bot 6    |
| Notes:                                                                         |                                |  |  |  |  |  | 19      |              |           |         |                  |              |                               |          |          |
|                                                                                |                                |  |  |  |  |  | 20      |              | 21        |         | 22               |              |                               |          |          |
|                                                                                |                                |  |  |  |  |  | 21      |              | OXY       |         | OXY              |              |                               |          |          |
|                                                                                |                                |  |  |  |  |  | 22      |              | VI07      |         | VI07             |              |                               |          |          |
|                                                                                |                                |  |  |  |  |  | 23      |              | 2024-028  |         | 2024-028         |              |                               |          |          |
|                                                                                |                                |  |  |  |  |  | 24      |              | 5 m       |         | 0 m              |              |                               |          |          |
|                                                                                |                                |  |  |  |  |  |         |              | bot 11    |         | bot 12           |              |                               |          |          |

| Nisk ID | Sample ID | Flask 2 | Draw Temp 2 (°C) | OXY-2 (mL/L) | OXY-2 Comments |
|---------|-----------|---------|------------------|--------------|----------------|
| 1       |           |         |                  |              |                |
| 2       |           |         |                  |              |                |
| 3       |           |         |                  |              |                |
| 4       |           |         |                  |              |                |
| 5       |           |         |                  |              |                |
| 6       | 16B       | 3029    | 10.1             | 3.764        |                |
| 7       |           |         |                  |              |                |
| 8       |           |         |                  |              |                |
| 9       |           |         |                  |              |                |
| 10      |           |         |                  |              |                |
| 11      |           |         |                  |              |                |
| 12      |           |         |                  |              |                |
| 13      |           |         |                  |              |                |
| 14      |           |         |                  |              |                |
| 15      |           |         |                  |              |                |
| 16      |           |         |                  |              |                |
| 17      |           |         |                  |              |                |
| 18      |           |         |                  |              |                |
| 19      |           |         |                  |              |                |
| 20      |           |         |                  |              |                |
| 21      |           |         |                  |              |                |
| 22      |           |         |                  |              |                |
| 23      |           |         |                  |              |                |
| 24      |           |         |                  |              |                |

11  
OXY  
VI07  
2024-028  
BTM-10 m  
bot 1

12  
OXY  
VI07  
2024-028  
400 m  
bot 2

13  
OXY  
VI07  
2024-028  
300 m  
bot 3

14  
OXY  
VI07  
2024-028  
200 m  
bot 4

15  
OXY  
VI07  
2024-028  
150 m  
bot 5

16A  
OXY  
VI07  
2024-028  
100 m  
bot 6

16B  
OXY  
VI07  
2024-028  
100 m  
bot 6

17  
OXY  
VI07  
2024-028  
75 m  
bot 7

18  
OXY  
VI07  
2024-028  
50 m  
bot 8

19  
OXY  
VI07  
2024-028  
25 m  
bot 9

20  
OXY  
VI07  
2024-028  
10 m  
bot 10

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'X' in the appropriate column if either fails the integrity check.

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.