

4

OXY  
ER05

2023-030

30m-10 m

bot 1

5

OXY  
ER05

2023-030

30m-25 m

bot 2

6A

OXY  
ER05

2023-030

2000 m

bot 3

6B

OXY  
ER05

2023-030

2000 m

bot 3

7

OXY  
ER05

2023-030

1750 m

8

OXY  
ER05

2023-030

1500 m

# Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences  
Water Properties Group



| 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 |
|--------------------------------------------------------------------------------|---------------------------------------------------------------|--|--|---------|--------------|-----------|---------|------------------|--------------|----------------|--|--|--|---------|-----------|---------|------------------|--------------|-------|
| Cruise Number:                                                                 | 2023-030                                                      |  |  | 1       |              | 4         | 1316    | 4.1              | 1.116        |                |  |  |  | 1       |           |         |                  |              | OXY-2 |
| Event:                                                                         | 11                                                            |  |  | 2       |              | 5         | 974     | 4.1              | 1.693        |                |  |  |  | 2       |           |         |                  |              |       |
| Station:                                                                       | ER05                                                          |  |  | 3       |              | 6A        | 2015    | 4.4              | 1.374        |                |  |  |  | 3       | 6B        | 3072    | 4.8              | 1.373        |       |
| Event Date (Local):                                                            | 2023-05-31                                                    |  |  | 4       |              | 7         | 994     | 4.5              | 1.030        |                |  |  |  | 4       |           |         |                  |              |       |
| Analysis Date (Local):                                                         | 2023-06-01                                                    |  |  | 5       |              | 8         | 970     | 5.0              | 0.605        |                |  |  |  | 5       |           |         |                  |              |       |
| Analyst:                                                                       | UD                                                            |  |  | 6       |              | 9         | 140     | 5.2              | 0.365        |                |  |  |  | 6       |           |         |                  |              |       |
| Stdization Date (Local):                                                       | 2023-06-01                                                    |  |  | 7       |              | 10        | 131     | 5.7              | 0.255        |                |  |  |  | 7       |           |         |                  |              |       |
| KIO <sub>3</sub> N:                                                            | 0.01208                                                       |  |  | 8       |              | 11        | 1330    | 5.8              | 0.296        |                |  |  |  | 8       |           |         |                  |              |       |
| Standard Titer:                                                                | 0.5046                                                        |  |  | 9       |              | 12        | 908     | 5.9              | 0.253        |                |  |  |  | 9       |           |         |                  |              |       |
| Blank Titer:                                                                   | 0.0005                                                        |  |  | 10      |              | 13A       | 105     | 5.9              | 0.299        |                |  |  |  | 10      | 13B       | 932     | 6.1              | 0.298        |       |
| THIO N:                                                                        | 0.23911                                                       |  |  | 11      |              | 14        | 173     | 6.2              | 0.315        |                |  |  |  | 11      |           |         |                  |              |       |
| Sample Flask Water Seal?                                                       | <input checked="" type="radio"/> Yes <input type="radio"/> No |  |  | 12      |              | 15        | 1485    | 6.3              | 0.358        |                |  |  |  | 12      |           |         |                  |              |       |
| Reagent Change?                                                                | MnO <sub>2</sub>                                              |  |  | 13      |              | 16        | 1424    | 6.4              | 0.476        |                |  |  |  | 13      |           |         |                  |              |       |
| (Please circle reagent that was changed prior to sampling and standardization) | NaI/NaOH                                                      |  |  | 14      |              | 17        | 174     | 6.4              | 0.577        |                |  |  |  | 14      |           |         |                  |              |       |
| H <sub>2</sub> SO <sub>4</sub>                                                 |                                                               |  |  | 15      |              | 18        | 148     | 6.7              | 0.682        |                |  |  |  | 15      |           |         |                  |              |       |
| NOTE NEW BATCH IN LOG BOOK                                                     |                                                               |  |  | 16      |              | 19        | 101     |                  |              |                |  |  |  | 16      |           |         |                  |              |       |
|                                                                                |                                                               |  |  | 17      |              | 20        | 964     | 7.0              | 1.176        |                |  |  |  | 17      |           |         |                  |              |       |
|                                                                                |                                                               |  |  | 18      |              | 21        | 458     | 7.1              | 1.494        |                |  |  |  | 18      |           |         |                  |              |       |
|                                                                                |                                                               |  |  | 19      |              | 22        | 3046    | 7.3              | 1.793        |                |  |  |  | 19      |           |         |                  |              |       |
|                                                                                |                                                               |  |  | 20      |              | 23        | 133     | 8.0              | 2.318        |                |  |  |  | 20      |           |         |                  |              |       |
|                                                                                |                                                               |  |  | 21      |              | 24A       | 914     | 8.8              | 4.213        |                |  |  |  | 21      | 24B       | 3134    | 8.9              | 4.263        |       |
|                                                                                |                                                               |  |  | 22      |              | 25        | 1300    | 9.1              | 6.952        |                |  |  |  | 22      |           |         |                  |              |       |
|                                                                                |                                                               |  |  | 23      |              | 26        | 927     | 11.4             | 6.552        |                |  |  |  | 23      |           |         |                  |              |       |
|                                                                                |                                                               |  |  | 24      |              | 27        | 107     |                  |              |                |  |  |  | 24      |           |         |                  |              |       |

Notes:

Moose.xlsx

Loose Valve caused spigot leak

18

OXY  
ER05

2023-030

500 m

bot 15

20

OXY  
ER05

2023-030

400 m

bot 17

21

OXY  
ER05

2023-030

350 m

bot 19

22

OXY  
ER05

2023-030

300 m

23

OXY  
ER05

2023-030

200 m

bot 20

OXY  
ER05

2023-030

550 m

bot 14

OXY  
ER05

2023-030

600 m

bot 13

OXY  
ER05

2023-030

650 m

bot 12

OXY  
ER05

2023-030

700 m

bot 11

OXY  
ER05

2023-030

750 m

bot 10

OXY  
ER05

2023-030

750 m

bot 10

OXY  
ER05

2023-030

800 m

bot 9

OXY  
ER05

2023-030

850 m

bot 8

OXY  
ER05

2023-030

1000 m

bot 7

OXY  
ER05

2023-030

1250 m

bot 6

31

OXY  
TW08  
2023-030

Dissolved Oxygen Analysis Log Sheet  
Institute of Ocean Sciences  
Water Properties Group



Last Updated

Btm-10 m  
bot 1  
33  
OXY  
TW08  
2023-030  
Btm-25 m  
bot 3

49  
OXY  
TW08  
2023-030  
400 m  
bot 19  
50  
OXY  
TW08  
2023-030  
300 m  
bot 20

| 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:                                                                 | 2023-030                       |  |  | 1       |              | 31        | 1316    | 4.2              | 1.866        |                | 1       |           |         |                  |              |                |
| Event:                                                                         | 018                            |  |  | 2       |              |           |         |                  |              |                | 2       |           |         |                  |              | 53             |
| Station:                                                                       | TW08                           |  |  | 3       |              | 33        | 974     | 4.2              | 1.847        |                | 3       |           |         |                  |              | OXY            |
| Event Date (Local):                                                            | 2023-06-02                     |  |  | 4       |              | 34A       | 2015    |                  |              |                | 4       | 34B       | 3072    |                  |              | TW08           |
| Analysis Date (Local):                                                         | 2023-06-04                     |  |  | 5       |              | 35        | 994     | 4.5              | 1.306        |                | 5       |           |         |                  |              | 2023-030       |
| Analyst:                                                                       | CS                             |  |  | 6       |              | 36        | 970     | 4.7              | 0.566        |                | 6       |           |         |                  |              | 50 m           |
| Stratization Date (Local):                                                     | 2023-06-01                     |  |  | 7       |              | 37        | 140     | 5.4              | 0.354        |                | 7       |           |         |                  |              | bot 20         |
| KIO <sub>3</sub> N:                                                            | 0.01208                        |  |  | 8       |              | 38        | 131     | 5.5              | 0.286        |                | 8       |           |         |                  |              | 54             |
| Standard Titer:                                                                | 0.5046                         |  |  | 9       |              | 39        | 1330    | 5.7              | 0.266        |                | 9       |           |         |                  |              | OXY            |
| Blank Titer:                                                                   | 0.0005                         |  |  | 10      |              | 40        | 908     | 5.8              | 0.259        |                | 10      |           |         |                  |              | TW08           |
| THIO N:                                                                        | 0.23971                        |  |  | 11      |              | 41        | 105     | 5.9              | 0.737        |                | 11      |           |         |                  |              | 2023-030       |
| Sample Flask Water Seal?                                                       | Yes                            |  |  | 12      |              | 42A       | 932     | 6.0              | 0.247        |                | 12      | 42B       | 173     | 6.2              | 0.243        | 5 m            |
|                                                                                | No                             |  |  | 13      |              | 43        | 1485    | 6.1              | 0.254        |                | 13      |           |         |                  |              | bot 24         |
| Reagent Change?                                                                | MnCl <sub>2</sub>              |  |  | 14      |              | 44        | 1424    | 6.2              | 0.294        |                | 14      |           |         |                  |              | bot 21         |
| (Please circle reagent that was changed prior to sampling and standardization) | NaI/NaOH                       |  |  | 15      |              | 45        | 174     | 6.4              | 0.339        |                | 15      |           |         |                  |              | 51B            |
| NOTE NEW BATCH IN LOG BOOK                                                     | H <sub>2</sub> SO <sub>4</sub> |  |  | 16      |              | 46        | 148     | 6.4              | 0.368        |                | 16      |           |         |                  |              | OXY            |
|                                                                                | KIO <sub>3</sub>               |  |  | 17      |              | 47        | 101     | 6.5              | 0.504        |                | 17      |           |         |                  |              | TW08           |
|                                                                                | THIO                           |  |  | 18      |              | 48        | 964     | 6.9              | 0.793        |                | 18      |           |         |                  |              | 2023-030       |
| Notes:                                                                         |                                |  |  | 19      |              | 49        | 458     | 7.3              | 1.127        |                | 19      |           |         |                  |              | 200 m          |
|                                                                                |                                |  |  | 20      |              | 50        | 3046    | 7.7              | 1.531        |                | 20      |           |         |                  |              | 52             |
|                                                                                |                                |  |  | 21      |              | 51A       | 133     | 8.3              | 1.998        | OT             | 21      | 51B       | 914     | 8.4              | 1.995        | OXY            |
|                                                                                |                                |  |  | 22      |              | 52        | 3134    | 8.9              | 3.272        |                | 22      |           |         |                  |              | TW08           |
|                                                                                |                                |  |  |         |              |           | 1300    | 9.1              | 5.863        |                | 23      |           |         |                  |              | 2023-030       |
|                                                                                |                                |  |  |         |              |           | 927     | 10.9             | 6.898        |                | 24      |           |         |                  |              | 100 m          |
|                                                                                |                                |  |  |         |              |           |         |                  |              |                |         |           |         |                  |              | bot 22         |

Moose.xlsx

38  
OXY  
TW08  
2023-030  
1100 m  
bot 8

39  
OXY  
TW08  
2023-030  
1050 m  
bot 9

40  
OXY  
TW08  
2023-030  
1000 m  
bot 10

41  
OXY  
TW08  
2023-030  
950 m  
bot 11

42A  
OXY  
TW08  
2023-030  
900 m  
bot 12

43  
OXY  
TW08  
2023-030  
850 m  
bot 13

44  
OXY  
TW08  
2023-030  
800 m  
bot 14

45  
OXY  
TW08  
2023-030  
750 m  
bot 15

46  
OXY  
TW08  
2023-030  
700 m  
bot 16

47  
OXY  
TW08  
2023-030  
600 m  
bot 17

48  
OXY  
TW08  
2023-030  
500 m  
bot 18

Water spilt (S) then lost by accident by opening the vent. Mark 'X' in the appropriate column if either fails the

Dissolved Oxygen Analysis Log Sheet

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Last Updated: December 2019

| Cruise and Analysis Information |              |           |         | OXY-1 Comments   |              |  |  |
|---------------------------------|--------------|-----------|---------|------------------|--------------|--|--|
| Nisk ID                         | Nisk Int V S | Sample ID | Flask 1 | Draw Temp 1 (°C) | OXY-1 (mL/L) |  |  |
| 1                               |              | 58        | 1316    | 4.5              |              |  |  |
| 2                               |              |           |         |                  |              |  |  |
| 3                               |              | 60        | 974     | 4.5              | 0.393        |  |  |
| 4                               |              | 61        | 2015    | 5.1              | 0.327        |  |  |
| 5                               |              | 62        | 3072    | 5.4              | 0.262        |  |  |
| 6                               |              | 63        | 994     | 5.4              | 0.243        |  |  |
| 7                               |              | 64        | 970     | 5.6              | 0.220        |  |  |
| 8                               |              |           |         |                  |              |  |  |
| 9                               |              | 66A       | 140     | 5.6              | 0.268        |  |  |
| 10                              |              | 67        | 1330    | 5.7              | 0.210        |  |  |
| 11                              |              | 68        | 908     | 5.9              | 0.196        |  |  |
| 12                              |              | 69        | 105     | 5.9              | 0.215        |  |  |
| 13                              |              | 70        | 932     | 8.7              | 6.690        |  |  |
| 14                              |              | 71        | 173     | 6.2              | 0.268        |  |  |
| 15                              |              | 72A       | 1485    | 8.5              | 6.516        |  |  |
| 16                              |              | 73        | 174     | 6.6              | 0.650        |  |  |
| 17                              |              |           |         |                  |              |  |  |
| 18                              |              | 75        | 148     | 6.9              | 1.194        |  |  |
| 19                              |              | 76        | 101     | 7.4              | 1.116        |  |  |
| 20                              |              | 77        | 964     | 8.0              | 2.524        |  |  |
| 21                              |              | 78A       | 458     | 8.7              | 3.500        |  |  |
| 22                              |              | 79        | 133     | 9.1              | 6.942        |  |  |
| 23                              |              | 80        | 914     | 12.1             | 6.528        |  |  |
| 24                              |              |           |         |                  |              |  |  |

Sample integrity: First test the top vent (V) by analyzing the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either

| Nisk ID | Sample ID | Flask 2 | Draw Temp 2 (°C) | OXY-2 (mL/L) |  |  |
|---------|-----------|---------|------------------|--------------|--|--|
| 1       |           |         |                  |              |  |  |
| 2       |           |         |                  |              |  |  |
| 3       |           |         |                  |              |  |  |
| 4       |           |         |                  |              |  |  |
| 5       |           |         |                  |              |  |  |
| 6       |           |         |                  |              |  |  |
| 7       |           |         |                  |              |  |  |
| 8       |           |         |                  |              |  |  |
| 9       | 66B       | 131     | 5.9              | 0.203        |  |  |
| 10      |           |         |                  |              |  |  |
| 11      |           |         |                  |              |  |  |
| 12      |           |         |                  |              |  |  |
| 13      |           |         |                  |              |  |  |
| 14      |           |         |                  |              |  |  |
| 15      | 72B       | 1424    | 8.7              | 6.516        |  |  |
| 16      |           |         |                  |              |  |  |
| 17      |           |         |                  |              |  |  |
| 18      |           |         |                  |              |  |  |
| 19      |           |         |                  |              |  |  |
| 20      |           |         |                  |              |  |  |
| 21      | 78B       | 3046    | 8.8              | 3.499        |  |  |
| 22      |           |         |                  |              |  |  |
| 23      |           |         |                  |              |  |  |
| 24      |           |         |                  |              |  |  |

|       |          |     |     |     |     |        |          |       |    |     |        |          |       |    |     |        |          |       |    |     |        |          |       |    |     |        |          |       |    |     |        |          |       |     |     |        |          |       |     |     |        |          |       |    |     |        |          |       |        |
|-------|----------|-----|-----|-----|-----|--------|----------|-------|----|-----|--------|----------|-------|----|-----|--------|----------|-------|----|-----|--------|----------|-------|----|-----|--------|----------|-------|----|-----|--------|----------|-------|-----|-----|--------|----------|-------|-----|-----|--------|----------|-------|----|-----|--------|----------|-------|--------|
| 6 bot | 050-3202 | AXO | A99 | 66B | OXY | TWINS2 | 2023-030 | 950 m | 67 | OXY | TWINS2 | 2023-030 | 900 m | 68 | OXY | TWINS2 | 2023-030 | 850 m | 69 | OXY | TWINS2 | 2023-030 | 800 m | 70 | OXY | TWINS2 | 2023-030 | 750 m | 71 | OXY | TWINS2 | 2023-030 | 700 m | 72A | OXY | TWINS2 | 2023-030 | 600 m | 72B | OXY | TWINS2 | 2023-030 | 500 m | 73 | OXY | TWINS2 | 2023-030 | 500 m | bot 16 |
|-------|----------|-----|-----|-----|-----|--------|----------|-------|----|-----|--------|----------|-------|----|-----|--------|----------|-------|----|-----|--------|----------|-------|----|-----|--------|----------|-------|----|-----|--------|----------|-------|-----|-----|--------|----------|-------|-----|-----|--------|----------|-------|----|-----|--------|----------|-------|--------|



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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 | Nisk ID | Sample ID | Flask 2 | Draw Temp 2 (°C) | OXY-2 (mL/L) | ER03     | ER03     |
|--------------------------------------------------------------------------------|--------------------------------|----|--|--|---------|--------------|-----------|---------|------------------|--------------|----------------|---------|-----------|---------|------------------|--------------|----------|----------|
| Cruise Number:                                                                 | 2023-030                       | 1  |  |  |         |              |           |         |                  |              |                | 1       |           |         |                  |              | 200 m    | ER03     |
| Event:                                                                         | 35                             | 2  |  |  | 84      | 1316         |           | 3.9     | 1.64             |              |                | 2       |           |         |                  |              | bot 21   | 99       |
| Station:                                                                       | ER03                           | 3  |  |  | 85      | 974          |           | 4.0     | 1.64             |              |                | 3       |           |         |                  |              | 104      | OXY      |
| Event Date (Local):                                                            | 2023-06-06                     | 4  |  |  | 86      | 2015         |           | 4.6     | 0.630            |              |                | 4       |           |         |                  |              | OXY      | ER03     |
| Analysis Date (Local):                                                         | 08 Jun 23                      | 5  |  |  | 87A     | 3072         |           | 5.2     | 0.356            |              |                | 5       | 87B       | 994     | 5.5              | 0.353        | ER03     | 2023-030 |
| Analyst:                                                                       | DB                             | 6  |  |  | 88      | 970          |           | 5.2     | 0.314            |              |                | 6       |           |         |                  |              | 2023-030 | 600 m    |
| Standardization Date (Local):                                                  | 08 Jun 23                      | 7  |  |  | 89      | 140          |           | 5.4     | 0.303            |              |                | 7       |           |         |                  |              | 100 m    | 105      |
| KIO <sub>3</sub> N:                                                            | 0.0120872                      | 8  |  |  | 90      | 131          |           | 5.5     | 0.280            |              |                | 8       |           |         |                  |              | OXY      | ER03     |
| Standard Titer:                                                                | 0.5047                         | 9  |  |  | 91      | 1330         |           | 5.5     | 0.266            |              |                | 9       |           |         |                  |              | ER03     | 2023-030 |
| Blank Titer:                                                                   | 0.0012                         | 10 |  |  | 92      | 908          |           | 5.7     | 0.250            |              |                | 10      |           |         |                  |              | 2023-030 | 500 m    |
| THIO N:                                                                        | 0.24011                        | 11 |  |  | 93      | 105          |           | 5.9     | 0.234            |              |                | 11      |           |         |                  |              | 50 m     | 101      |
| Sample Flask Water Seal?                                                       | Yes                            | 12 |  |  | 94A     | 932          |           | 5.9     | 0.239            |              |                | 12      | 94B       | 173     | 6.1              | 0.235        | bot 23   | OXY      |
| Reagent Change?                                                                | MnCl <sub>2</sub>              | 13 |  |  | 95      | 1485         |           | 6.0     | 0.237            |              |                | 13      |           |         |                  |              | 106      | ER03     |
| (please circle reagent that was changed prior to sampling and standardization) | NaI/NaOH                       | 14 |  |  | 96      | 1424         |           | 6.2     | 0.249            |              |                | 14      |           |         |                  |              | OXY      | 2023-030 |
| NOTE NEW BATCH IN LOG BOOK                                                     | H <sub>2</sub> SO <sub>4</sub> | 15 |  |  | 97      | 174          |           | 6.3     | 0.259            |              |                | 15      |           |         |                  |              | 10 m     | 102      |
|                                                                                | KIO <sub>3</sub>               | 16 |  |  | 98      | 148          |           | 6.4     | 0.291            |              |                | 16      |           |         |                  |              | 2023-030 | 400 m    |
|                                                                                | THIO                           | 17 |  |  | 99      | 101          |           | 6.5     | 0.438            |              |                | 17      |           |         |                  |              | bot 24   | OXY      |
|                                                                                |                                | 18 |  |  | 100     | 964          |           | 6.8     | 0.616            |              |                | 18      |           |         |                  |              | ER03     | 2023-030 |
|                                                                                |                                | 19 |  |  | 101     | 458          |           | 7.1     | 1.066            |              |                | 19      |           |         |                  |              |          | 103A     |
|                                                                                |                                | 20 |  |  | 102     | 3046         |           | 7.5     | 1.413            |              |                | 20      |           |         |                  |              |          | OXY      |
|                                                                                |                                | 21 |  |  | 103A    | 133          |           | 7.7     | 2.283            |              |                | 21      | 103B      | 914     | 7.9              | 2.283        |          | ER03     |
|                                                                                |                                | 22 |  |  | 104     | 3134         |           | 8.4     | 5.546            |              |                | 22      |           |         |                  |              | 2023-030 | 200 m    |
|                                                                                |                                | 23 |  |  | 105     | 1300         |           | 9.5     | 6.960            |              |                | 23      |           |         |                  |              |          | bot 21   |
|                                                                                |                                | 24 |  |  | 106     | 927          |           | 12.3    | 6.396            |              |                | 24      |           |         |                  |              |          |          |

## Dissolved Oxygen Analysis Log Sheet



**Dissolved Oxygen**  
Institute of Ocean Sciences

23-030

M-10 m

110

OXY

ES03

023-030

107-20

100

3

723

023-030

0000 m

•

111B

LYO

7000

1  
 2  
 3  
 4

440

QVY

103

2023-03

2750 m

h  
v  
t  
r

113

150

E000

00707

1

## Water Properties Group

## Water Properties Group

| Cruise and Analysis Information                                                |                                |    |  |  |  | Nisk ID | Sample ID | Flask | Draw Temp 1 (°C) | OXY-1 (mL/L) | OXY-1 Comments |
|--------------------------------------------------------------------------------|--------------------------------|----|--|--|--|---------|-----------|-------|------------------|--------------|----------------|
| Cruise Number:                                                                 | 2023-030                       | 1  |  |  |  |         |           |       |                  |              |                |
| Event:                                                                         | 37                             | 2  |  |  |  |         |           |       |                  |              |                |
| Station:                                                                       | ES03                           | 3  |  |  |  |         |           |       |                  |              |                |
| Event Date (Local):                                                            | 2023-06-07                     | 4  |  |  |  |         |           |       |                  |              |                |
| Analysis Date (Local):                                                         | 08 Jun 23                      | 5  |  |  |  |         |           |       |                  |              |                |
| Analyst:                                                                       | DA                             | 6  |  |  |  |         |           |       |                  |              |                |
| Stratization Date (Local):                                                     | 08 Jun 23                      | 7  |  |  |  |         |           |       |                  |              |                |
| KIO <sub>3</sub> N:                                                            | 0.0120872                      | 8  |  |  |  |         |           |       |                  |              |                |
| Standard Titer:                                                                | 0.597                          | 9  |  |  |  |         |           |       |                  |              |                |
| Blank Titer:                                                                   | 0.0012                         | 10 |  |  |  |         |           |       |                  |              |                |
| THIO N:                                                                        | 0.2011                         | 11 |  |  |  |         |           |       |                  |              |                |
| Sample Flask Water Seal?                                                       | Yes                            | 12 |  |  |  |         |           |       |                  |              |                |
| Reagent Change?                                                                | MnCl <sub>2</sub>              | 13 |  |  |  |         |           |       |                  |              |                |
| (Please circle reagent that was changed prior to sampling and standardization) | NaI/NaOH                       | 14 |  |  |  |         |           |       |                  |              |                |
| NOTE NEW BATCH IN LOG BOOK                                                     | H <sub>2</sub> SO <sub>4</sub> | 15 |  |  |  |         |           |       |                  |              |                |
|                                                                                | KIO <sub>3</sub>               | 16 |  |  |  |         |           |       |                  |              |                |
|                                                                                | THIO                           | 17 |  |  |  |         |           |       |                  |              |                |
|                                                                                |                                | 18 |  |  |  |         |           |       |                  |              |                |
|                                                                                |                                | 19 |  |  |  |         |           |       |                  |              |                |
|                                                                                |                                | 20 |  |  |  |         |           |       |                  |              |                |
|                                                                                |                                | 21 |  |  |  |         |           |       |                  |              |                |
|                                                                                |                                | 22 |  |  |  |         |           |       |                  |              |                |
|                                                                                |                                | 23 |  |  |  |         |           |       |                  |              |                |
|                                                                                |                                | 24 |  |  |  |         |           |       |                  |              |                |

Notes:

Snail.xlsx

Mark 'V' in the appropriate column if either fails the integrity check and explain in the comments column.