Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

IOS

44 OXY IN_07 2024-041 150 m bot 5

Last Updated: December 2019

Cruise and Analysis Information

Cruise Number:	2024-041
Event:	0014
Station:	IN_07
Event Date (Local):	18-08-24
Analysis Date (Local):	04 Sep 2024
Analyst:	ER
Stdization Date (Local):	04 Sep 2024
KIO_3 N:	0.0122436
Standard Titer:	0.51360
Blank Titer:	0.00031
THIO N:	0.23846
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$, NaI/NaOH, (H_2SO_4), (KIO_3), THIO

Notes:

Moose.xlsx

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1							
2							
3	✓	✓	43	1316	7.1	1.866	
4	✓	✓	43A	974	7.2	1.932	ground glass dry, bubble in flask.
5	✓	✓	44	3072	7.6	—	Dumped sample -> could not hold water seal.
6	✓	✓	45	994	8.0	2.541	Changed NaOH dispenser tube
7		✓	45A	970	8.5	2.991	Leaky spigot
8							
9							
10	✓	✓	47	131	9.1	3.887	
11	✓	✓	48	1330	10.1	4.493	
12	✓	✓	49A	105	12.1	5.370	
13	✓	✓	49	932	16.0	6.152	
14	✓	✓	50	173	16.2		
15							bubble. bubble. nisky at endpoint - dancing loops
16							
17							
18							
19							
20							
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					NaOH dispenser bubble!!
4	43B	2015	7.4	1.926	
5					flask top broke in my hand
6					NaOH dispense very hard.
7	45B	140	8.7	2.986	
8					
9					
10					
11					
12	49B	908	12.3	5.358	
13					
14					
15					late EP time 0935
16					
17					
18					
19					
20					
21					
22					
23					
24					

43 OXY IN_07 2024-041 Btm-10 m bot 3

43A OXY IN_07 2024-041 175 m bot 4

43B OXY IN_07 2024-041 175 m bot 4

45 OXY IN_07 2024-041 125 m bot 6

45A OXY IN_07 2024-041 100 m bot 7

45B OXY IN_07 2024-041 100 m bot 7

47 OXY IN_07 2024-041 75 m bot 10

48 OXY IN_07 2024-041 50 m bot 11

49A OXY IN_07 2024-041 20 m bot 12

49B OXY IN_07 2024-041 20 m bot 12

49 OXY IN_07 2024-041 10 m bot 13

50 OXY IN_07 2024-041 5 m bot 14

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.

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group

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174A OXY BS10 2024-041 1000 m bot 4

Last Updated: December 2019

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int 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:	2024-041	1								1					
Event:	0048	2								2					
Station:	BS10	3			173	1424	4.6	0.340		3					
Event Date (Local):	23-08-24	4			174A	174				4	174B	148			station not deep enough
Analysis Date (Local):	04Sep2024	5			175B	101	5.13	0.335	→	5	175A	148	5.4	0.337	
Analyst:	ER	6			176	964	5.3	0.423		6					
Stdization Date (Local):	04Sep2024	7			177A	458	5.9	0.960		7	177B	3046	6.3	0.960	
KIO_3 N:	0.0122436	8			178	133	6.2	1.329		8					
Standard Titer:	0.51360	9			179	914	6.6	2.455		9					
Blank Titer:	0.00031	10			180	3134	7.1	3.362		10					
THIO N:	0.23842	11			181	1300	7.9	6.313		11					
Sample Flask Water Seal?	(Yes) / No	12								12					
		13								13					
Reagent Change?	$MnCl_2$	14			184	927	8.8	6.643		14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15			185A	107	10.2	7.022		15	185B	931	10.4	7.018	
	H_2SO_4	16			186	1358	12.9			16					
	KIO_3	17			187	1351	15.0			17					
	THIO	18								18					
Notes:		19					bubble- white in		Big Bubble	19					BIG WHITE BUBBLE
Moose.xlsx		20								20			bubble.		recalc late EP 110619
		21								21			↓		
		22													
		23													
		24													

Bottle integrity: First test the top vent (V) by opening the lower spic

173 OXY BS10 2024-041 Btm-10 m bot 3

175B OXY BS10 2024-041 800 m bot 5

174A OXY BS10 2024-041 ~~1000~~ 500 m bot 4 5

wrong order

176 OXY BS10 2024-041 600 m bot 6

177A OXY BS10 2024-041 400 m bot 7

177B OXY BS10 2024-041 400 m bot 7

178 OXY BS10 2024-041 300 m bot 8

179 OXY BS10 2024-041 200 m bot 9

180 OXY BS10 2024-041 150 m bot 10

181 OXY BS10 2024-041 100 m bot 11

187 OXY BS10 2024-041 5 m bot 17

186 OXY BS10 2024-041 20 m bot 16

185B OXY BS10 2024-041 50 m bot 15

185A OXY BS10 2024-041 50 m bot 15

184 OXY BS10 2024-041 75 m bot 14

Dissolved Oxygen Analysis Log Sheet

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Last Updated: December 2019

Cruise and Analysis Information	
Cruise Number:	2024-041
Event:	0082
Station:	TW04
Event Date (Local):	29-08-24
Analysis Date (Local):	04Sep2024
Analyst:	ER
Stdization Date (Local):	04Sep2024
KIO_3 N:	0.0122436
Standard Titer:	0.51360
Blank Titer:	0.00031
THIO N:	0.23842
Sample Flask Water Seal?	Yes / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$, NaI/NaOH, H_2SO_4, KIO_3, THIO
Notes:	

Snail.xlsx

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1							
2							
3	✓	✓	260	130	4.2	1.370	
4	✓	✓	261	923	4.5	0.657	
5	✓	✓	262A	3032	5.0	0.405	
6	✓	✓	263	126	5.4	0.251	
7	✓	✓	264	1402	5.9	0.314	spigot leaked when open w/valve shut
8	✓	✓	265	3096	6.2	0.616	
9	✓	✓	266A	3109	6.8	1.225	
10	✓	✓	267	154	7.2	1.901	
11	✓	✓	268	129	8.2	3.341	
12	✓	✓	269	575	8.5	3.735	bubbles dispensed from NaOH! ½
13	✓	✓	270	171	9.4	4.163	
14							
15							
16	✓	✓	273	903	10.0	4.808	
17	✓	✓	274A	20	10.9	5.270	
18	✓	✓	275	114	15.8	6.091	
19			276	959	16.4		bubbles dispensed from NaOH! ½
20	bubble		big bubble		bubble		bubble big bubble.
21							bubble.

Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5	262B	913	5.5	0.401	
6					
7					
8					
9	266B	151	7.1	1.224	
10					
11					
12					
13					
14					
15					
16					
17	274B	1192	11.1	5.270	
18					
19					
20					
21					bubble.

Bottle inte (V) low en test op M op if e nte e:

260 OXY TW04 2024-041 2000 m bot 3	261 OXY TW04 2024-041 1500 m bot 4	262A OXY TW04 2024-041 1250 m bot 5	262B OXY TW04 2024-041 1250 m bot 5	263 OXY TW04 2024-041 1000 m bot 6	264 OXY TW04 2024-041 800 m bot 7	265 OXY TW04 2024-041 600 m bot 8	266A OXY TW04 2024-041 400 m bot 9	266B OXY TW04 2024-041 400 m bot 9	267 OXY TW04 2024-041 300 m bot 10	268 OXY TW04 2024-041 200 m bot 11	269 OXY TW04 2024-041 150 m bot 12	270 OXY TW04 2024-041 100 m bot 13	273 OXY TW04 2024-041 75 m bot 16	274A OXY TW04 2024-041 50 m bot 17	274B OXY TW04 2024-041 50 m bot 17	275 OXY TW04 2024-041 20 m bot 18	276 OXY TW04 2024-041 5 m bot 19	late EP 125006					