

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:	2024-002	1		1	1105	9.5	5.031		1					
Event:	3	2		2	1174	9.4	5.150		2					
Station:	Haro59	3		3	1110	9.4	5.267		3					
Event Date (Local):	2024-01-24	4		4A	2090	9.3	5.318	→	4	4B	3201	9.3	5.317	
Analysis Date (Local):	25 JAN 2024	5		5	1446	9.2	5.323		5					
Analyst:	MB	6		6	1124	9.2	5.323		6					
Stdization Date (Local):	23 JAN 2024	7		7	948	9.2	5.325	* Alkali dispenser stuck/jumpy	7					
KIO ₃ N:	0.0118371	8		8	1453	9.2	5.336		8					
Standard Titer:	0.4851	9		9	1177	9.2	5.388		9					
Blank Titer:	0.0004	10		10A	954	9.2	5.397	→	10	10B	1134	9.2	5.406	BIG BUBBLE IN SAMPLE
THIO N:	0.239263	11		11	1128	9.2	5.427		11					
Sample Flask Water Seal?	Yes	12							12					
	No	13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					

Bee.xlsx

	1	2	3	4A	4B	5	6	7	8	9	10A	10B	11
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Bottle	Haro5	Haro	Haro5	Haro	Haro	Haro5	Haro5	Haro	Haro5	Haro	Haro	Haro5	Haro59
	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-002
Bot-5 r	200	150 r	100	100	75 r	50 m	30	20 m	10 r	5 r	5 m	0 m	
bot 1	bot	bot 3	bot	bot	bot	bot 6	bot	bot 8	bot	bot	bot 1	bot 11	

either fails the integrity check and explain this in the comments column.

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Cruise and Analysis Information							OXY-1 Comments					OXY-2 Comments				
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)		Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)					
Cruise Number: 2024-002	1	✓	✓	15A	176	9.6	3.492									
Event: 6	2			16	3075	9.6	3.905									
Station: JF2	3			17	647	9.4	4.433									
Event Date (Local): 2024-01-24	4			18	439	9.5	4.850	LATE CP, OT								
Analysis Date (Local): 25 Jan 2024	5			19	22	9.4	5.145									
Analyst: MB	6			20	2032	9.4	5.245									
Stdization Date (Local): 23 Jan 2024	7			21A	910	9.3	5.277									
KIO ₃ N: 0.0118371	8			22	950	9.3	5.347	VERY LOW CP OT - SAME RESULT								
Standard Titer: 0.4951	9			23	1457	9.3	5.535	MURKY WATER?								
Blank Titer: 0.0004	10			24	3002	9.3	5.578									
THIO N: 0.239263	11			25	3209	9.3	5.693									
Sample Flask Water Seal? ☒ Yes	12			26	3037	9.3	5.743									
☐ No	13			27	745	9.3	5.786									
Reagent Change? MnCl ₂	14															
(Please circle reagent that was changed prior to sampling and standardization)	15															
NOTE NEW BATCH IN LOG BOOK	16															
	17															
	18															
Notes:	19															
	20															
	21															
	22															
	23															
	24															
	25															
	26															
	27															
Tall Ship.xlsx	15A	15B	16	17	18	19	20	21	21B	22	23	24	25	26	27	
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
	JF2	JF2	JF2	JF2	JF2	JF2	JF2	JF2	JF2	JF2	JF2	JF2	JF2	JF2	JF2	
	2024-0	2024-0C	2024-C	2024-C	2024-00	2024-C	2024-C	2024-0	2024-0	2024-C	2024-0C	2024-0	2024-0C	2024-0	2024-002	
	Bot-5	Bot-5 n	150 i	125 i	100 m	80 n	60 i	50 m	50 n	40 r	30 m	20 n	10 m	5 m	0 m	
	bot 1	bot 1	bot	bot	bot 4	bot	bot	bot 7	bot	bot	bot 9	bot 1	bot 1	bot 1	bot 13	

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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)	OXY-2 Comments
Cruise Number:	2024-002	1		31	176	9.9	3.262		1					
Event:	9	2		32A	189	10.5	5.052		2	32B	3075	10.5	5.051	
Station:	P1	3		33	647	10.2	6.276		3					
Event Date (Local):	2024-01-25	4		34	439	10.2	6.296		4					
Analysis Date (Local):	25 JAN 2024	5							5					
Analyst:	MB	6							6					
Stdization Date (Local):	25 JAN 2024	7							7					
KIO ₃ N:	0.018371	8							8					
Standard Titer:	0.451	9							9					
Blank Titer:	0.0009	10							10					
THIO N:	0.239263	11							11					
Sample Flask Water Seal?	Yes	12							12					
	No	13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		31	32A	32B	33	34	15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		OX	OXY	OXY	OXY	OXY	16					
	KIO ₃	17		P	P1	P1	P1	P1	17					
	THIO	18		2024	2024-01	2024-00	2024-01	2024-002	18					
Notes:		19		Bot-1	75 m	75 m	30 m	5 m	19					
		20		bo	bot 2	bot 2	bot 3	bot 4	20					
Tall Ship.xlsx		21							21					
		22							22					
		23							23					
		24							24					

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.

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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)	OXY-2 Comments
Cruise Number:	2024-002	1		51	176	9.7	3.094		1					
Event:	12	2		52A	189	9.7	3.144	→ redraw 9.7°C LARGE BUBBLE	2	52B	3075	9.7	3.112	
Station:	P2	3		53	647	9.8	3.763		3					
Event Date (Local):	2024-01-25	4		54	439	9.8	3.666		4					
Analysis Date (Local):	2024-01-25	5		55	22	10.2	3.585		5					
Analyst:	MG	6		56A	2032	10.2	6.368	→	6	56B	910	10.2	6.851	OVERTITRATE TERRIBLE CORVE
Stdization Date (Local):	2024-01-23	7		57	2025	10.2	6.390		7					
KIO ₃ N:	0.0118371	8		58	950	10.2	6.391		8					
Standard Titer:	0.4950821	9							9					
Blank Titer:	0.0004233	10							10					
THIO N:	0.239263	11							11					
Sample Flask Water Seal?	Yes	12							12					
	No	13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20		51										
		21		OXY										
		22		P2										
		23		2024-002										
		24		Bot-10 m										
				bot 1										
					52A									
				OXY										
				P2										
				2024-002										
				100 m										
				bot 2										
					52B									
				OXY										
				P2										
				2024-002										
				100 m										
				bot 2										
					53									
				OXY										
				P2										
				2024-002										
				75 m										
				bot 3										
					54									
				OXY										
				P2										
				2024-002										
				50 m										
				bot 5										
					55									
				OXY										
				P2										
				2024-002										
				25 m										
				bot 6										
					56A									
				OXY										
				P2										
				2024-002										
				25 m										
				bot 6										
					56B									
				OXY										
				P2										
				2024-002										
				10 m										
				bot 7										
					57									
				OXY										
				P2										
				2024-002										
				5 m										
				bot 8										
					58									
				OXY										

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) and drawing water into the bottle. Mark 'X' in the appropriate column in order to pass the integrity check and explain units in the comments column.

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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)	OXY-2 Comments
Cruise Number:	2024-002	1		91	176	5.9	0.453		1					
Event:	19	2		92	189	5.7	0.377		2					
Station:	P4	3		93	3075	5.8	0.366		3					
Event Date (Local):	2024-01-25	4		94A	647	6.0	0.226		4	94B	439	6.1	0.213	
Analysis Date (Local):	26 JAN 2024	5		95	22	6.4	0.215		5					
Analyst:	MB	6		96	2032	6.8	0.435		6					
Stdization Date (Local):	26 JAN 2024	7		97	910	7.4	1.093		7					
KIO ₃ N:	0.0118371	8		98	2025	7.7	1.716		8					
Standard Titer:	0.4946	9		99A	950	8.1	2.057		9	99B	1457	8.1	2.060	
Blank Titer:	0.0004	10		100	3002	8.4	2.492		10					
THIO N:	0.239271	11		101	3209	8.6	2.512		11					
Sample Flask Water Seal?	Yes	12		102	3037	8.8	2.866		12					
	No	13		103	745	9.1	3.151		13					
Reagent Change?	MnCl ₂	14		104	3100	9.3	3.716		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		105	1050	10.3	5.417		15					
	H ₂ SO ₄	16		106	153	10.5	6.342		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17		107A	1054	10.5	6.418		17	107B	3150	10.5	6.417	
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					

Tail Ship.xlsx

Bottle integrity: First test the top ven

91	92	93	94A	94B	95	96	97	98	99A	99B	100	101	102	103	104	105	106
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4
2024-01	2024-0C	2024-0	2024-00	2024-00	2024-0	2024-0	2024-0	2024-0	2024-00	2024-00	2024-0	2024-00	2024-0	2024-00	2024-C	2024-00	2024-002
Bot-10	1250 n	1250 i	1000 m	1000 r	800	600 r	400 r	300 r	250 m	250 m	200 i	175 m	150 r	125 m	100 r	75 m	50 m
bot 1	bot 2	bot 3	bot 4	bot 4	bot	bot 6	bot 7	bot 8	bot 9	bot 9	bot	bot 11	bot 12	bot 13	bot 1	bot 15	bot 16

107B
OXY
P4
2024-002
25 m
bot 17

107A
OXY
P4
2024-0C
25 m
bot 17

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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)	OXY-2 Comments
Cruise Number:	2024-002	1		134A	130	5.6	1.305	→	1	134B	923	5.9	1.306	
Event:	23	2		135	3032	5.9	0.615		2					
Station:	P8	3		136	913	6.1	0.338		3					
Event Date (Local):	2024-01-26	4		137	126	6.3	0.773		4					
Analysis Date (Local):	27 JAN 2023	5		138	1402	6.7	0.236	LATE CP, OT	5					
Analyst:	MB	6		139A	3096	6.9	0.452	→	6	139B	3109	7.0	0.446	
Stdization Date (Local):	26 JAN 2023	7		140	151	7.5	1.117		7					
KIO ₃ N:	0.0118371	8		141	154	7.9	1.750		8					
Standard Titer:	0.4946	9		142	129	8.2	1.939		9					
Blank Titer:	0.0004	10		143	575	8.5	2.361		10					
THIO N:	0.239279	11		144	171	8.9	2.418		11					
Sample Flask Water Seal?	Yes	12		145	903	9.3	2.629		12					
	No	13		146	20	9.3	4.804		13					
Reagent Change?	MnCl ₂	14		147A	1192	9.5	6.422	→	14	147B	114	9.5	6.420	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		148	959	9.6	6.446		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		149	109	9.7	6.482		16					
	KIO ₃	17		150	3033	9.7	6.490	LATE CP, OT	17					
	THIO	18		151	152	9.7	6.490		18					
Notes:		19		152	3080	9.7	6.487		19					
Surface → Bottom		20		153A	1059	9.8	6.492	→	20	153B	900	9.7	6.493	
Sampling order		21		154	3041	9.8	6.490		21					
Snail.xlsx		22		155	2035	9.9	6.490							

134A	134B	135	136	137	138	139A	139B	140	141	142	143	144	145	146	147A	147B	148	149	150	...
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8
2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002
2000 m	2000 m	1500 m	1250 m	1000 m	800 m	600 m	600 m	400 m	300 m	250 m	200 m	150 m	100 m	75 m	60 m	60 m	50 m	40 m	30 m	25 m
bot 1	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 15	bot 16	bot 17	bot 18	bot 19	bot 20

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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 : (°C)	5 m bot 23.	5 m bot 23	10 m bot 22	25 m bot 21	50 m bot 20	
Cruise Number:	2024-002			1		159A	176	4.1	2.301		1	159B	189	4.2	2.302	INPUT WLG TEMP (4.0)				
Event:	28			2		160	3075	4.0	2.271		2									
Station:	P12			3		161	647	4.0	2.265	INPUT wrong TMP (4.1)	3									
Event Date (Local):	2024-01-27			4		162	439	4.1	1.878		4							177	OXY P12	
Analysis Date (Local):	28 JAN 2024			5		163	22	4.5	1.303		5								2024-002 75 m	
Analyst:	MB			6		164	2032	4.7	0.509		6									
Stdization Date (Local):	26 JAN 2024			7		165A	910	5.2	0.331		7	165B	2025	5.3	0.330			176	OXY P12	
KIO ₃ N:	0.0118371			8		166	950	5.5	0.256		8								2024-002 100 m	
Standard Titer:	0.4946			9		167	1457	5.9	0.255	may have lost abit of precipitate	9									
Blank Titer:	0.0004			10		168	3002	6.2	0.500		10							175	OXY P12	
THIO N:	0.239274			11		169	3209	6.5	1.443		11								2024-002 125 m	
Sample Flask Water Seal?	Yes			12		170A	3037	6.9	2.501		12	170B	745	6.9	2.496			174	OXY P12	
	No			13		171	3100	7.2	3.167		13								2024-002 150 m	
Reagent Change?	MnCl ₂			14		172	1050	7.6	3.709		14								2024-002 150 m	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			15		173	153	7.8	4.435		15							173	OXY P12	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16		174	1054	8.0	4.822		16								2024-002 175 m	
	KIO ₃			17		175	3150	8.2	5.407		17								2024-002 200 m	
	THIO			18		176	3083	8.6	6.044		18							172	OXY P12	
Notes:				19		177	945	9.6	6.510		19								2024-002 200 m	
				20		178	957	9.6	6.535	LATE CP, OT	20							171	OXY P12	
Tall Ship.xlsx				21		179	1477	9.6	6.531		21								2024-002 250 m	
159A	159B	160	161			180	3120	9.6	6.536			166						169	170A	170B
OXY	OXY	OXY	OXY			181A	2049	9.7	6.648			OXY						OXY	OXY	OXY
P12	P12	P12	P12									P12						P12	P12	P12
2024-002	2024-002	2024-002	2024-002									2024-002						2024-002	2024-002	2024-002
Bot-10 m	Bot-10 m	3000 m	3000 m									1000 m						400 m	300 m	300 m
bot 1	bot 1	bot 2	bot 3									bot 8						bot 11	bot 11	bot 12

211
OXY
P26

2024-002
Bot-10 m
bot 1
212
OXY
P26
2024-002
4000 m
bot 2
213
OXY
P26
2024-002
3500 m
bot 3
214A
OXY
P26
2024-002
3000 m
bot 4
214B
OXY
P26
2024-002
3000 m

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234
OXY
P26
2024-002
5 m
bot 24

Cruise and Analysis Information							OXY-1 Comments							OXY-2 Comments						
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)		Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)									
1		211	176	4.1	3.193		1													
2		212	189	3.5	3.140		2													
3		213	3075	3.3	2.902		3													
4		214A	647	3.3	2.491	1	4	214B	439	3.4	2.490									
5		215	22	3.4	1.880	lost some precip from headspace	5													
6		216	2032	3.5	1.185		6													
7		217	910	3.8	0.434		7													
8		218	2025	4.0	0.333		8													
9		219A	950	4.3	0.396		9	219B	1457	4.4	0.389									
10		220	3002	4.7	0.490		10													
11		221	3209	5.0	0.672		11													
12		222	3037	5.4	1.097		12													
13		223	745	5.5	1.731		13													
14		224A	3100	5.7	2.699		14	224B	1050	5.7	2.701									
15		225	153	5.9	3.644		15													
16		226	1054	6.0	4.442		16													
17		227	3150	5.9	5.118		17													
18		228A	3083	6.0	5.669		18	228B	945	6.0	5.669	but some precip from headspace								
19		229	957	6.5	6.372		19													
20		230	1477	6.8	6.786		20													
21		231	3120	6.8	6.792		21													
22		232	2049	6.8	6.790		22													
		233	639	6.8	6.792															
		234	3062	6.8	6.855															

215	216	217	218	219A	219B	220	221	222	223	224A	224B	225	226	227	228A	228E	229	230
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
P26	P26	P26	P26	P26	P26	P26	P26	P26	P26	P26	P26	P26	P26	P26	P26	P26	P26	P26
2024-002	2024-0	2024-0	2024-0	2024-0	2024-0	2024-0	2024-0	2024-0	2024-0	2024-0	2024-0	2024-0	2024-0	2024-0	2024-0	2024-0	2024-0	2024-0
2500 m	2000 m	1500 m	1250 m	1000 m	1000 m	800 m	600 m	400 m	300 m	250 m	250 m	200 m	175 m	150 m	125 m	125 m	100 m	75 m
						bot 1	bot 11	bot 12	bot 13	bot 14	bot 1	bot 15	bot 16	bot 17	bot 1	bot 1	bot 1	bot 20

325
OXY
P20
2024-002
Bot-10 m
bot 1
326
OXY
P20
2024-002
3500 m
bot 2
327
OXY
P20
2024-002
3500 m
bot 3
328A
OXY
P20
2024-002
3000 m
bot 4
328B
OXY
P20
2024-002
3000 m
bot 4

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348
OXY
P20
2024-002
5 m
bot 24
347
OXY
P20
2024-002
10 m
bot 23

Cruise and Analysis Information							OXY-1 Comments							OXY-2 Comments						
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)		Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)									
1		325	176	4.0	2.950		1													
2		326	189	3.8	2.827		2													
3		327	3075	3.6	2.840	DOUBLE SIEVE BAR, TRIED OT, CURVE LOOKS OK	3													
4		328A	647	3.5	2.474		4	328B	439	3.5	2.461									
5		329	22	3.8	1.878		5													
6		330	2032	3.8	1.189		6													
7		331	910	4.3	0.536		7													
8		332	2025	4.5	0.382		8													
9		333	950	4.9	0.349		9													
10		334A	1457	5.3	0.415		10	334B	3002	5.4	0.426	CP LATE, OT								
11		335	3209	5.7	0.684		11													
12		336	3037	5.8	1.173		12													
13		337	745	6.0	1.789		13													
14	X	338A	3100	6.3	2.200	leaky Nisking, dripping from bottom	14	338B	1050	6.3	2.199									
15		339	153	6.6	3.418		15													
16		340	1054	6.6	4.157		16													
17		341	3150	6.6	4.822	LATE CP, OT	17													
18		342A	3083	6.7	5.565		18	342B	945	6.7	5.566									
19		343	957	7.7	6.574		19													
20		344	1477	7.7	6.732		20													
21		345	3120	7.7	6.738		21													
22		346	2049	7.7	6.740															
		347	639	7.8	6.738	leaky spigot														
		348	3062	7.7	6.740															
329		330	331	332			335	336	337	338A	338B	339	340	341	342A					
OXY	OXY	OXY	OXY				OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY					
P20	P20	P20	P20				P20	P20	P20	P20	P20	P20	P20	P20	P20					
2024-002	2024-002	2024-002	2024-002				2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002	2024-002					
2500 m	2000 m	1500 m	1250 m				600 m	400 m	300 m	250 m	250 m	200 m	175 m	150 m	125 m					
bot 7	bot 8						bot 11	bot 12	bot 13	bot 14	bot 1	bot 15	bot 16	bot 17	bot 18					

433

OXY

P16

2024-002

300-10 m

bot 1

434

OXY

P16

2024-002

3500 m

bot 2

435

OXY

P16

2024-002

3500 m

bot 3

436A

OXY

P16

2024-002

3000 m

bot 4

436B

OXY

P16

2024-002

3000 m

bot 4

437

OXY

P16

2024-002

2500 m

bot 5

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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)		OXY-456	OXY-P16	2024-002	5 m	bot 24
Cruise Number:	2024-002	1		433	1314	3.5	2.702		1									455	
Event:	90	2		434	3034	3.4	2.661		2									OXY	
Station:	P16	3		435	912	2.3	2.658		3									P16	
Event Date (Local):	2024-02-04	4		436A	3074	3.4	2.426		4	436B	1429	3.8	2.422					2024-002	
Analysis Date (Local):	5 FEB 2024	5		437	1487	3.8	2.014		5									10 m	
Analyst:	MB	6		438	3133	3.6	1.942		6									bot 23	
Stdization Date (Local):	4 FEB 2024	7		439	178	3.8	1.255		7									OXY	
KIO ₃ N:	0.018371	8		440	981	4.2	0.526		8									P16	
Standard Titer:	0.4947	9		441	1491	4.9	0.275		9									2024-002	
Blank Titer:	0.0004	10		442A	921	5.4	0.309		10	442B	3116	5.4	0.303					25 m	
THIO N:	0.23937	11		443	3126	5.2	0.413		11									bot 22	
Sample Flask Water Seal?	Yes	12		444	185	6.0	0.999		12									OXY	
	No	13		445	3148	6.3	1.545		13									P16	
Reagent Change?	MnCl ₂	14		446A	122	6.3	2.184		14	446B	915	6.3	2.187					2024-002	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		447	569	6.6	3.180		15									50 m	
	H ₂ SO ₄	16		448	1425	6.7	3.859		16									bot 21	
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17		449	557	6.8	4.417		17									452	
	THIO	18		450A	188	7.1	5.065		18	450B	2043	7.1	5.052					OXY	
Notes:		19		451	142	8.2	6.620		19									P16	
		20		452	1489	8.3	6.620		20									2024-002	
lumming Bird.xlsx		21		453	902	8.2	6.632		21									75 m	
		22		454	159	8.3	6.637		22									bot 20	
438	439	440	441	455	3104	8.7	6.649	444	445	446A	446B	447	448	449	450A	450B	451		
OXY	OXY	OXY	OXY					OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
		P16	P16	456	997	8.2	6.749	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	

P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16
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Dissolved Oxygen Analysis Log Sheet

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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)	OXY-2 Comments
Cruise Number:	2024-002	1		488	130	10.2	2.496		1					
Event:	115	2				10.1			2					
Station:	12	3		490A	923	10.1	2.999		3	490B	3032	10.1	2.992	
Event Date (Local):	2024-02-07	4		491	913	10.0	3.143		4					
Analysis Date (Local):	7 Feb 2024	5		492	126	9.9	3.381		5					
Analyst:	WB	6		493	1402	9.8	3.503		6					
Stdization Date (Local):	7 Feb 2024	7		494	3096	9.7	3.690		7					
KIO ₃ N:	0.0118371	8		495	3109	9.4	4.241		8					
Standard Titer:	0.4948	9		496A	151	9.0	5.095		9	496B	154	9.0	5.096	
Blank Titer:	0.0064	10		497	129	9.0	5.257		10					
THIO N:	0.239293	11		498	575	9.0	5.388		11					
Sample Flask Water Seal?	Yes	12		499	171	8.9	5.453		12					
	No	13		500	903	8.7	5.928		13					
Reagent Change?	MnCl ₂	14		501	20	8.7	6.318		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17		504	1192	8.2	6.504		17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					

Snail.xlsx	488	490A	490B	491	492	493	494	495	496A	496B	497	498	499	500	501	504
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Bot	2024-00	2024-002	2024-00	2024-00	2024-002	2024-00	2024-0	2024-0	2024-002	2024-002	2024-0	2024-0	2024-00	2024-00	2024-0	2024-002
	Bot-5 m	250 m	250 m	200 m	150 m	125 m	100 m	75 m	50 m	50 m	40 m	30 m	20 m	10 m	5 m	0 m
	bot 1	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 9	bot 1	bot 1	bot 1	bot 13	bot	bot 17

this in the comments column.

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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)	OXY-2 Comments
Cruise Number:	2024-002	1		523	176	10.3	2.691		1					
Event:	126	2		524A	189	10.1	2.853		2	524B	3075	10.1	2.837	
Station:	27	3		525	647	16.0	3.151		3					
Event Date (Local):	2024-02-07	4		526	439	9.9	3.383		4					
Analysis Date (Local):	08.02.24	5							5					
Analyst:	MB	6							6					
Stdization Date (Local):	07.02.24	7							7					
KIO ₃ N:	0.0118371	8							8					
Standard Titer:	0.4948444	9							9					
Blank Titer:	0.0004233	10							10					
THIO N:	0.0239293	11							11					
Sample Flask Water Seal?	Yes	12							12					
	No	13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19		523	524A	524B	525	526	19					
		20		OXY	OXY	OXY	OXY	OXY	20					
		21		27	27	27	27	27	21					
Tall Ship.xlsx		22		2024-00	2024-002	2024-00	2024-00	2024-002	22					
		23		Bot-5 r	300 m	300 m	250 m	200 m	23					
		24		bot 1	bot 2	bot 3	bot 3	bot 4	24					

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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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:	2024-002	1		544	2032	9.9	2.783		1					
Event:	134	2		545	910	9.8	3.176		2					
Station:	42	3		546	2025	9.7	3.623		3					
Event Date (Local):	2024-02-07	4		547	950	9.1	4.941		4					
Analysis Date (Local):	8 FEB 2024	5		548A	1457	9.5	4.114		5	548B	3002	9.5	4.104	
Analyst:	MB	6		549	3209	9.2	4.589		6					
Stdization Date (Local):	7 FEB 2024	7		550	3037	9.2	4.630		7					
KIO ₃ N:	0.0118371	8		551	745	9.0	4.977		8					
Standard Titer:	0.648	9		552	3100	8.8	5.340		9					
Blank Titer:	0.0004	10		553	1050	8.6	5.549		10					
THIO N:	0.239293	11		554	153	8.5	5.87		11					
Sample Flask Water Seal?	Yes	12		555A	1054	8.1	6.709		12	555B	3150	8.1	6.709	
	No	13		556	3083	8.1	6.837		13					
Reagent Change?	MnCl ₂	14		557	945	7.5	7.250		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					

	544	545	546	547	548A	548B	549	550	551	552	553	554	555A	555B	556	557
Tall Ship.xlsx	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01	2024-01
	40 m	30 m	20 m	10 m	10 m	5 m	0 m									
	bot 9	bot 1	bot 11	bot 12	bot 12	bot 13	bot 14									

one integrity check and explain this in the comments column.....

Bottle integrity: First test the top vent (V