

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: 2023-007	1		2	2098	7.7	5.439		1					
Event: 7	2		3	3114			not sampled	2					
Station: 59	3		4	904	7.7	5.611		3					
Event Date (Local): 2023-02-23	4		5A	973	7.7	5.648		4	5B	196	7.7	5.638	
Analysis Date (Local): 09 Mar 2023	5		6	1346	7.6	5.671		5					
Analyst: KS	6		7	3005	7.6	5.688		6					
Stdization Date (Local): 09 March 2023	7		8	118	7.6	5.700		7					
KIO ₃ N: 0.0118190	8		9	169	7.5	5.706		8					
Standard Titer: 0.48414	9		10	3050	7.5	5.679	Re-drawn → Vent not open enough	9					
Blank Titer: 0.00010	10		11	3044	7.4	5.729		10					
THIO N: 0.24589	11		12	941	7.4	5.744		11					
Sample Flask Water Seal? Yes	12		13	111	7.4	5.760		12					
	13							13					
Reagent Change? MnCl ₂	1	2	3	4	5A	5B	6	7	8	9	10	11	12
(Please circle reagent that was changed prior to sampling and standardization)	1	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
NOTE NEW BATCH IN LOG BOOK	1	59	59	59	59	59	59	59	59	59	59	59	59
	1	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007
	1	m	m	m	m	m	m	m	m	m	m	m	m
	1	bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11
Notes:	19							19					
	20	13						20					
Chicken & Egg.xlsx	21	OXY						21					
	22	59						22					
	23	2023-007						23					
	24	m						24					

Bottle integrity: First test the top vent (V) by op bot 12 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 Number:	2023-007	1		20	953	8.9	2.931		1					
Event:	12	2		21	976	8.9	2.952		2					
Station:	42	3		22	547	8.7	3.386		3					
Event Date (Local):	2023-02-24	4		23	3040	8.7	3.647		4					
Analysis Date (Local):	09 March 2023	5		24A	1416	8.6	3.825		5	24B	971	8.7	3.818	
Analyst:	KS	6		25	658	8.4	4.375		6					
Stdization Date (Local):	09 March 2023	7		26	168	8.4	4.568		7					
KIO ₃ N:	0.0118990	8		27	943	8.3	4.734		8					
Standard Titer:	0.48414	9		28	145	8.3	4.700		9					
Blank Titer:	0.00010	10		29	986	8.2	5.077		10					
THIO N:	0.24589	11		30	1493	8.1	5.256		11					
Sample Flask Water Seal?	Yes	12		31A	3090	7.9	5.673		12	31B	922	8.0	5.673	
	No	13		32	1472	7.3	6.623		13					
Reagent Change?	MnCl ₂	14		33	165	7.2	6.900	loose spigot on niskin	14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		34	3047	7.1	6.932		15					
	H ₂ SO ₄	16		35	1314	7.1	6.927	Start of Box Humming Bird.xlsx	16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17						Runaway						
	THIO	18												
Notes:		19												
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Cruise Number:	2023-007	1		66	912	9.2	3.429		1							
Event:	37	2		67	3074	9.1	3.558		2							
Station:	12	3		68A	1429	9.1	3.633		3	68B	1487	9.1	3.630			
Event Date (Local):	2023-02-26	4		69	3133	9.1	3.706		4							
Analysis Date (Local):	09 March 2023	5		70	178	9.1	3.756		5							
Analyst:	KS	6		71	981	9.0	3.901		6							
Stdization Date (Local):	09 March 2023	7		72	1491	8.9	4.024		7							
KIO ₃ N:	0.0118990	8		73	921	8.9	4.065		8							
Standard Titer:	0.48414	9		74A	3116	8.7	4.649		9	74B	3126	8.8	4.644			
Blank Titer:	0.00010	10		75	185	8.3	5.675		10							
THIO N:	0.24589	11		76	3148	8.1	6.061		11							
Sample Flask Water Seal?	Yes	12		77	122	8.0	6.171		12							
	No	13		78	915	7.9	6.348		13							
Reagent Change?	MnCl ₂	14		79	569	7.8	6.405	loose spigot	14							
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		80	1425	7.8	6.490		15							
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		81	557	7.8	6.498		16							
	KIO ₃	17		35	66	67	68A	68B	69	70	71	72	73	74A	74B	75
	THIO	18		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Notes:		19		42	12	12	12	12	12	12	12	12	12	12	12	12
		20		2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007
		21		m	Bot-5 m	300 m	250 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	75 m	50 m
		22		bot 16	bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 9	bot 10
		23		76	77	78	79	80	81							
		24		OXY	OXY	OXY	OXY	OXY	OXY							
				12	12	12	12	12	12							
				2023-007	2023-007	2023-007	2023-007	2023-007	2023-007							
				40 m	30 m	20 m	10 m	5 m	0 m							
				bot 11	bot 12	bot 13	bot 14	bot 15	bot 16							

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Cruise Number: 2023-007	1							1							
Event: 47	2							2							
Station: JE03	3		103	164	9.1	1.816		3							
Event Date (Local): 2023-02-27	4		104	435	9.2	1.862		4							
Analysis Date (Local): 09 March 2023	5		105	1338	9.2	1.885		5							
Analyst: KS	6		106A	3117	9.2	1.896		6	106B	968	9.3	1.891			
Stdization Date (Local): 09 March 2023	7		107	157	9.2	1.982		7							
KIO ₃ N: 0.0118990	8		108	963	9.2	2.020		8							
Standard Titer: 0.48414	9		109	1465	9.2	2.354		9							
Blank Titer: 0.00010	10		110	905	8.9	3.307		10							
THIO N: 0.24589	11		111A	3180	8.7	4.122		11	111B	1326	8.8	4.116			
Sample Flask Water Seal? Yes	12		112	146	8.6	4.318		12							
No	13		113	3108	8.6	4.382		13							
Reagent Change? MnCl ₂	14							14							
(Please circle reagent that was changed prior to sampling and standardization)	15		115	942	7.9	5.895		15							
NOTE NEW BATCH IN LOG BOOK	16		116	3127	7.6	6.014		16							
	17		117	3095	7.6	5.782		17							
	18		118	150	7.9	5.923		18							
Notes:	19		103	104	105	106A	106B	107	108	109	110	111A	111B	112	113
	20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Mermaid.xlsx	21		JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03
	22		2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007	2023-007
	23		B-5 m	600 m	500 m	400 m	400 m	300 m	250 m	200 m	150 m	100 m	100 m	75 m	50 m
	24		bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 11	bot 12	bot 13

Bottle integrity: First test the top vent (V) by op

115 OXY JE03 2023-007 25 m bot 15
116 OXY JE03 2023-007 10 m bot 16
117 OXY JE03 2023-007 5 m bot 17
118 OXY JE03 2023-007 0 m bot 18

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