

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 Comments
Cruise Number: 2022-070				1		1	161	10.1	0.844		1					
Event: 1				2		2	162	10.1	0.840		2					
Station: SI				3		3	163	10.1	0.142		3					
Event Date (Local): 2022-10-05				4		4	164	10.1	0.863		4					
Analysis Date (Local): 05 Oct '22				5		5	165	10.1	0.805		5					
Analyst: KS				6		6	166	10.8	2.733		6					
Sterilization Date (Local): 05 Oct 2022				7		7A	167	11.1	2.985		7	7B	168	11.2	2.985	
KIO ₃ N: 0.01187920				8		8	169	11.5	3.249		8					
Standard Titer: 0.49783				9		9	170	11.3	3.141		9					
Blank Titer: 0.00032				10		10A	171	12.5	3.778	B before A	10	10B	172	12.4	3.779	
THIO N: 0.23920				11		11	173	12.7	3.918		11					
Sample Flask Water Seal? ☒				12		12	174	12.9	5.696		12					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				13							13					
MnCl ₂				14	1						14					
NaI/NaOH				15							15					
H ₂ SO ₄				16							16					
KIO ₃				17							17					
THIO				18							18					
Notes:				19							19					
				20							20					
				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: 2022-070			1		17	1409	8.5	1.200		1					
Event: 5			2		18	3057	8.5	1.203		2					
Station: 102			3		19A	639	8.8	1.259		3	19B	3037	8.5	1.249	
Event Date (Local): 2022-10-06 06			4		20	969	8.4	1.318		4					
Analysis Date (Local): 06 Oct. 2022			5		21A	510	8.8	1.646		5	21B	1401	8.6	1.662	
Analyst: KS			6		22	3002	8.5	2.134		6					
Stratization Date (Local): 05 Oct. 2022			7		23	3121	8.8	2.096	Fask 3137.	7					
KIO ₃ N: 0.0118990			8		24	951	8.8	2.319		8					
Standard Titer: 0.49783			9		25	3081	9.6	2.826		9					
Blank Titer: 0.00032			10		26	20	9.8	2.955		10					
THIO N: 0.23920			11		27	569	10.1	3.203		11					
Sample Flask Water Seal? Yes			12		28	673	10.4	4.440	3.944	12					
			13		29	3120	10.6	4.770	4.640	13					
Reagent Change? MnCl ₂			14		30	3134	10.5	4.770		14					
(Please circle reagent that was changed prior to sampling and standardization)			15		31	3104	10.5	4.785		15					
NOTE NEW BATCH IN LOG BOOK			16		17										
			17		18										
			18		19A										
			19		19B										
			20		20										
			21		21A										
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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: 2022-070			1		33	101	8.5	1.227		1						
Event: 8			2		34	102	8.3	1.229		2						
Station: 75			3		35	103	8.4	1.265		3						
Event Date (Local): 2022-10-06			4		36A	104	8.5	-99	- did not analyze. Sample cloudy	4	36B	105	8.6	1.526	bubbles from Mn	
Analysis Date (Local): 06 Oct. 2022			5		37	106	8.7	1.760		5						
Analyst: KS			6		38	107	8.7	1.836		6						
Standardization Date (Local): 05 Oct. 2022			7		39	108	9.0	2.099		7						
KIO ₃ N: 0.0118990			8		40	109	9.3	2.393		8						
Standard Titer: 0.49783			9		41	110	9.7	2.779		9						
Blank Titer: 0.00032			10		42	111	9.9	3.229		10						
THIO N: 0.23920			11		43	112	10.3	3.736		11						
Sample Flask Water Seal? ☒ Yes			12		44	113	10.5	4.273		12						
			13		45	114	10.6	4.283		13						
Reagent Change? MnCl ₂			14		46A	115	10.8	4.712	Bubbles dispensed into sample	14	46B	116	10.74728			
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK			15		33	34	36A	35	36B	37	38	39	40	41	42	43
			16		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
			17		75	75	75	75	75	75	75	75	75	75	75	75
			18		2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070
			19		Bot-5 m	200 m	150 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m
			20		bot 1	bot 2	bot 4	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11
Notes:			21		44	45	46A	46B								
			22		OXY	OXY	OXY	OXY								
			23		75	75	75	75								
			24		2022-070	2022-070	2022-070	2022-070								

12 - Humming Bird.xlsx

by Splashed Chums

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

ent. Mark 'X' in the appropriate column if either fails the integrity check and explain this in the comments column.

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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: 2022-070			1		47	131	8.2	1.166		1						
Event: 12			2		48	132	8.1	1.174		2						
Station: 72			3		49	133	8.1	1.174		3						
Event Date (Local): 2022-10-06			4		50	134	8.1	1.184		4						
Analysis Date (Local): 06 Oct. 2022			5		51A	135	8.3	1.515		5	51B	136	8.4	1.518		
Analyst: KS			6		52	137	8.5	1.870		6						
Standardization Date (Local): 05 Oct. 2022			7		53A	138	9.4	2.902	Sampled 53B before 53A	7	53B A	139	9.5	2.779		
KIO ₃ N: 0.0118990			8		54	140	9.6	2.902		8						
Standard Titer: 0.49783			9		55	141	9.9	3.156		9						
Blank Titer: 0.00032			10		56	142	10.1	3.480		10						
THIO N: 0.23920			11		57	143	10.5	3.943		11						
Sample Flask Water Seal? Yes			12		58	144	10.6	3.841		12						
			13		59	145	10.8	3.949		13						
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK			14		47	48	49	50	51A	51B	52	53A	53B	54	55	56
MnCl ₂																
NaI/NaOH																
H ₂ SO ₄																
KIO ₃																
THIO																
Notes:			19		57	58	59									
			20		OXY	OXY	OXY									
			21		72	72	72									
			22		2022-070	2022-070	2022-070									
			23		10 m	5 m	0 m									
			24		bot 11	bot 12	bot 13									

Bottle integrity: First test the top vent (V) 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: 2022-070			1		61	101	8.0	1.201		1								
Event: 15			2		62	102	8.0	1.213		2								
Station: 69			3		63	103	8.0	1.252		3								
Event Date (Local): 2022-10-06			4		64	104	8.3	1.755		4								
Analysis Date (Local): 06 Oct. 2022			5		65	105	9.0	2.528		5								
Analyst: KS			6		66	106	9.5	2.796		6								
Standardization Date (Local): 05 Oct. 2022			7		67	107	9.6	2.876		7								
KIO ₃ N: 0.0118990			8		68	108	9.7	2.954		8								
Standard Titer: 0.49783			9		69	109	9.8	2.998		9								
Blank Titer: 0.00032			10		70A	110	9.9	3.119		10	70B	111	9.9	3.117				
THIO N: 0.23920			11		71	112	10.1	3.229		11								
Sample Flask Water Seal? ☒ Yes			12		72A	113	10.1	3.277		12	72B	114	10.1	3.273				
Reagent Change? ☐ No			13		61	62		63		67		68		69	70A	70B		
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK			14	OXY		OXY		OXY		OXY		OXY		OXY		OXY		
			15	69	69		69		69		69		69		69		69	
			16	2022-070	2022-070		2022-070		2022-070		2022-070		2022-070		2022-070		2022-070	
			17	Bot-5 m	150 m		125 m		100 m		75 m		50 m		40 m		10 m	10 m
			18	bot 1	bot 2		bot 3		bot 4		bot 5		bot 6		bot 7		bot 8	bot 9
Notes:			19	71	72A		72B			19								
			20	OXY	OXY		OXY					20						
			21	69	69		69					21						
			22	2022-070	2022-070		2022-070					22						
12 - Humming Bird.xlsx			23	5 m	0 m		0 m			23								
			24	bot 11	bot 12		bot 12					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 Number:	2022-070	1		73	131	8.5	1.594							1						
Event:	18	2		74	132	8.7	1.943							2						
Station:	adcp	3		75	133	8.9	2.037							3						
Event Date (Local):	2022-10-06 7	4		76	134	9.7	2.843							4						
Analysis Date (Local):	07 Oct. 2022	5		77	135	10.1	3.176							5						
Analyst:	KS	6		78	136	10.3	3.384							6						
Standardization Date (Local):	07 Oct. 2022	7		79A	137	10.3	3.417							7	79B	138	10.3	3.423		
KIO ₃ N:	0.0118990	8		80	139	10.7	3.742							8						
Standard Titer:	0.49800	9		81	140	10.9	3.952							9						
Blank Titer:	0.00021	10		82	141	11	4.010							10						
THIO N:	0.23920	11		73	74	75	76	77	78	79A	79B	80	81	82						
Sample Flask Water Seal?	Yes	12	OXY	adcp	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY						
Reagent Change?	MnCl ₂ #2201	13	adcp	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070						
(Please circle reagent that was changed prior to sampling and standardization)	H ₂ SO ₄	14	Bot 5 m	100 m	75 m	50 m	40 m	30 m	20 m	20 m	20 m	10 m	5 m	0 m						
NOTE NEW BATCH IN LOG BOOK	KIO ₃	15	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 7	bot 8	bot 9	bot 10						
	THIO	16																		
Notes:		17																		
		18																		
		19																		
		20																		
		21																		
		22																		
		23																		
		24																		

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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:	2022-070	1		84	161	8.8	1.893		1					
Event:	22	2		85A	162	9.3	2.263		2	85B	163	9.1	2.255	
Station:	65	3		86	164	9.7	2.762		3					
Event Date (Local):	2022-10-07	4		87	165	10.0	3.029		4					
Analysis Date (Local):	07 Oct. 2022	5		88	166	10.1	3.133	- Burnaway EP late OT ✓	5					
Analyst:	KS	6		89	167	10.2	3.152		6					
Stdization Date (Local):	07 Oct. 2022	7		90	168	10.5	3.347		7					
KIO ₃ N:	0.0118990	8		91	169	10.8	3.734		8					
Standard Titer:	0.49800	9		92	170	10.9	3.759		9					
Blank Titer:	0.00021	10		93	171	10.9	3.788		10					
THIO N:	0.23920	11		84	85A	85B	86	87	88	89	90	91	92	93
Sample Flask Water Seal?	Yes	12		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Reagent Change?	No	13		65	65	65	65	65	65	65	65	65	65	65
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂	14		2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15		Bot-5 m	100 m	100 m	75 m	50 m	40 m	30 m	20 m	10 m	5 m	0 m
	H ₂ SO ₄	16		bot 1	bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10
	KIO ₃	17												
	THIO	18												
Notes:		19												
		20												
		21												
11 - Earth.xlsx		22												
		23												
		24												

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Cruise Number: 2022-070			1		98	970	9.5	2.575											1										
Event: 26			2		99	971	9.3	2.130											2										
Station: 62			3		100	972	10.0	2.701											3										
Event Date (Local): 2022-10-07			4		101A	973	10.2	2.950											4	101B	974	10.1	2.955						
Analysis Date (Local): 07 Oct. 2022			5		102A	975	10.5	3.191											5	102B	976	10.3	3.192						
Analyst: KS			6		103	977	10.5	3.345											6										
Stratization Date (Local): 07 Oct. 2022			7		104	978	10.5	3.370											7										
KIO ₃ N: 0.0118990			8		105	979	10.5	3.370											8										
Standard Titer: 0.49880			9		106	980	10.5	3.414											9										
Blank Titer: 0.00021			10		107	981	10.6	3.445											10										
THIO N: 0.29320			11		108	982	10.7	3.465											11										
Sample Flask Water Seal? ☒ Yes			12																12										
Reagent Change? ☐ No			13																13										
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK			14		98																								
			15		OXY																								
			16		62																								
			17		2022-070																								
			18		Bot-5 m																								
Notes:			19		bot 1																								
			20		108																								
			21		OXY																								
			22		62																								
			23		2022-070																								
14 - Chicken & Egg.xlsx			24		0 m																								
					bot 11																								

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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:	2022-070				1		109	131	9.8	2.662		1					
Event:	31				2		110	132	9.8	2.667		2					
Station:	56				3		111	133	9.8	2.671	inadvertently selected the OT button. Over-illuminated it as normal	3					
Event Date (Local):	2022-10-07				4		112	134	9.9	2.962		4					
Analysis Date (Local):	07 Oct. 2022				5		113	135	9.9	2.748		5					
Analyst:	KS				6		114	136	10.2	3.005		6					
Stratization Date (Local):	07 Oct. 2022				7		115A	137	10.4	3.145	Sampled 115B before 115A	7	115B	138	10.4	3.158	
KIO ₃ N:	0.0118990				8		116	139	10.7	3.360		8					
Standard Titer:	0.49800				9		117	140	10.8	3.420		9					
Blank Titer:	0.00021				10		118	141	10.9	3.423		10					
THIO N:	0.23920				11		119	142	11.0	3.477		11					
Sample Flask Water Seal?	Yes				12		120A	143	11.5	3.842		12	120B	144	11.5	3.844	
	No				13		121	145	11.8	4.035		13					
Reagent Change?	MnCl ₂				14		122	146	12.1	4.157		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH				15		109	110	111	112	113	114	115A	115B	116	117	118
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄				16		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	KIO ₃				17		56	56	56	56	56	56	56	56	56	56	56
	THIO				18		2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070
Notes:					19		Bot-5 m	200 m	175 m	150 m	125 m	100 m	75 m	75 m	50 m	40 m	30 m
					20		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10
					21		119	120A	120B	121	122						
					22		OXY	OXY	OXY	OXY	OXY						
					23		56	56	56	56	56						
					24		2022-070	2022-070	2022-070	2022-070	2022-070						

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
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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: 2022-070			1		124	1409	9.7	2.689		1					
Event: 36			2		125	3057	9.7	2.683		2					
Station: 59			3		126	639	9.7	2.718		3					
Event Date (Local): 2022-10-07			4		127	3037	9.9	2.846		4					
Analysis Date (Local): 08 Oct. 2022			5		128A	969	10.1	3.623		5	128B	510	10.1	3.619	
Analyst: KS			6		129	1401	10.2	3.095		6					
Stratification Date (Local): 07 Oct. 2022			7		130A	3002	10.4	3.289		7	130B	3137	10.4	3.247	no precipitate fluffy. Did not settle as expected.
KIO ₃ N: 0.0118990			8		131	951	10.5	3.256		8					
Standard Titer: 0.49800			9		132	3081	10.5	3.376	precipitate very fluffy. Did not settle as expected.	9					
Blank Titer: 0.00021			10		133	20	10.6	3.398		10					
THIO N: 0.23920			11		134	569	10.7	3.478		11					
Sample Flask Water Seal? ☒ Yes			12		135	673	11.2	3.979		12					
Reagent Change? No			13		136	3120	11.3	4.076		13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK			14		137	3134	11.5	4.192		14					
			15		124	125	126	127	128A	128B	129	130A	130B	131	
			16		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
			17		59	59	59	59	59	59	59	59	59	59	
			18		2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	
			19		Bot-5 m	200 m	175 m	150 m	125 m	125 m	100 m	75 m	75 m	50 m	
			20		bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 7	bot 8	
			21		132	133	134	135	136	137	21				
			22		OXY	OXY	OXY	OXY	OXY	OXY	22				
			23		59	59	59	59	59	59	23				
			24		2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	24				
					40 m	30 m	20 m	10 m	5 m	0 m					
					bot 9	bot 10	bot 11	bot 12	bot 13	bot 14					

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

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

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 Comments
Cruise Number:	2022-070		1		139	131	10.7	2.781		1					
Event:	48		2		140	132	10.6	2.904		2					
Station:	46		3		141	133	10.9	2.912	- EP late. Over-hydrated sample. ✓	3					
Event Date (Local):	2022-10-08		4		142	134	10.8	3.136		4					
Analysis Date (Local):	08 Oct. 2022		5		143	135	10.9	3.270		5					
Analyst:	KS		6		144	136	10.5	3.316		6					
Standardization Date (Local):	07 Oct. 2022		7		145A	137	10.5	3.387		7	145B	138	10.5	3.388	
KIO ₃ N:	0.0118990		8		146	139	10.9	3.519		8					
Standard Titer:	0.49800		9		147	140	11.3	3.641		9					
Blank Titer:	0.00021		10		148A	141	12.4	4.193	- Runaway curve. EP. late. OT	10	148B	142	12.4	4.198	
THIO N:	0.23920		11		149	143	14.6	5.495		11					
Sample Flask Water Seal?	☒ Yes		12		150	144	16.1	6.350		12					
Reagent Change?	No		13		139	140		141		142		145A		146	147
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂		14		OXY	OXY		OXY		OXY		145B		OXY	OXY
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH		15		46	46		46		46		46		46	46
	H ₂ SO ₄		16		2022-070	2022-070		2022-070		2022-070		2022-070		2022-070	2022-070
	KIO ₃		17		Bot-5 m	150 m		125 m		100 m		40 m		30 m	20 m
	THIO		18		bot 1	bot 2		bot 3		bot 4		bot 7		bot 8	bot 9
Notes:			19		148A	148B		149		150					
			20		OXY	OXY		OXY		OXY					
			21		46	46		46		46					
			22		2022-070	2022-070		2022-070		2022-070					
			23		10 m	10 m		5 m		0 m					
			24		bot 10	bot 10		bot 11		bot 12					

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

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 Comments	
Cruise Number:	2022-070		1		151	1409	10.7	2.585			1						
Event:	52		2		152	3057	10.3	2.594			2						
Station:	42		3		153	639	10.6	2.767			3						
Event Date (Local):	2022-10-08		4		154	3037	10.1	2.771			4						
Analysis Date (Local):	08 Oct. 2022		5		155	969	10.1	2.782			5						
Analyst:	KS		6		156A	510	10.1	2.804			6	156B	1401	10.1	2.799		
Standardization Date (Local):	07 Oct. 2022		7		157	3002	10.1	2.811			7						
KIO ₃ N:	0.0118990		8		158A	3137	10.8	2.984			8	158B	951	10.9	2.984		
Standard Titer:	0.49800		9		159	3081	10.8	3.050			9						
Blank Titer:	0.00021		10		160	20	10.6	3.267			10						
THIO N:	0.23920		11		161	569	10.3	3.321			11						
Sample Flask Water Seal?	Yes		12		162	673	10.5	3.338			12						
	No		13		163	3120	10.9	3.391			13						
Reagent Change?	MnCl ₂		14		164	3134	12.0	3.908			14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		15		165	3104	15.5	6.414			15						
NOTE NEW BATCH IN LOG BOOK	KIO ₃		16		166	575	15.8	6.846			16						
	THIO		17		151	152	153	154	155	156A	156B	157	158A	158B	159	160	
Notes:			18	OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
			19	42		42	42	42	42	42	42	42	42	42	42	42	
			20	2022-070		2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	
			21	Bot-5 m		300 m	250 m	200 m	175 m	150 m	150 m	125 m	100 m	100 m	75 m	50 m	
			22	bot 1		bot 2	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 8	bot 9	bot 10	
15 - Moose.xlsx			23	161	162	163	164	165	166		23						
			24	OXY	OXY	OXY	OXY	OXY	OXY		24						
				42	42	42	42	42	42								
				2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070							
				40 m	30 m	20 m	10 m	5 m	0 m								
Bottle integrity: First test the top vent (V) by of																	
column if either fails the integrity check and explain this in the comments column.																	

Flask 1402 16.2 - Drew from incorrect Niskin (15). Redrew in new flask.

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:	2022-070		1		168A	131	10.1	2.541		1	168B	132	10.2	2.544	
Event:	57		2		169	133	10.1	2.600		2					
Station:	39		3		170	134	10.1	2.652		3					
Event Date (Local):	2022-10-08		4		171	135	10.2	2.673		4					
Analysis Date (Local):	07 Oct. 2022		5		172	136	10.1	2.712		5					
Analyst:	KS		6		173	137	10.1	2.744		6					
Stratization Date (Local):	07 Oct. 2022		7		174	138	10.1	2.800		7					
KIO ₃ N:	0.0118990		8		175	139	10.1	2.818		8					
Standard Titer:	0.49800		9		176	140	10.4	2.817		9					
Blank Titer:	0.00021		10		177A	141	10.2	3.058		10	177B	142	10.3	3.061	
THIO N:	0.23920		11		178	143	10.2	3.274		11					
Sample Flask Water Seal?	Yes		12		179	144	10.4	3.317		12					
	No		13		180	145	10.7	3.384		13					
Reagent Change?	MnCl ₂		14		181	146	11.1	3.434	Runaway titration Sample over-titrated.	14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		15		182	147	10.3	4.087		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		16		183	148	15.2	5.974		16					
	KIO ₃		17		184	149	16.6	6.503		17					
	THIO		18		168A										
Notes:			19		OXY	OXY									
			20		39	39									
			21		2022-070	2022-070									
			22		Bot-5 m	Bot-5 m									
13 - Mermaid.xlsx			23		bot 1	bot 1									
			24												

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

179 OXY 39 2022-070 40 m bot 12 180 OXY 39 2022-070 30 m bot 13 181 OXY 39 2022-070 20 m bot 14 182 OXY 39 2022-070 10 m bot 15 183 OXY 39 2022-070 5 m bot 16 184 OXY 39 2022-070 0 m bot 17

nts 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:	2022-070		1		193	161	10.6	2.626		1						
Event:	64		2		194	162	10.5	2.665		2						
Station:	27		3		195A	163	10.5	2.767		3	195B	164	10.2	4.719	- Precipitate doesn't look right. Sample bad. Maybe not mixed sufficiently?	
Event Date (Local):	2022-10-08		4		196	165	10.1	2.746		4						
Analysis Date (Local):	09 Oct '22		5		197	166	10.1	2.783		5						
Analyst:	KS		6		198A	167	10.5	2.796		6	198B	168	10.3	2.798		
Stratization Date (Local):	09 Oct '22		7		199	169	10.3	2.825		7						
KIO ₃ N:	0.0118990		8		200	170	10.3	2.825		8						
Standard Titer:	0.49755		9		201	171	10.4	2.925		9						
Blank Titer:	0.00029		10		202	172	10.2	3.225		10						
THIO N:	0.23940		11		203	173	10.2	3.211		11						
Sample Flask Water Seal?	Yes		12		204	174	10.3	3.229		12						
Reagent Change?	MnCl ₂		13		205	175	10.8	3.456		13						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		14		206	176	11.3	3.636	- Precipitate a bit fluffy. Not as expected.	14						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄ #2262		15		207	177	13.3	5.318		15						
Notes:			16		208	178	16.2	6.262		16						
11 - Earth.xlsx			17		193	194	195A	195B	196	197	198A	198B	199	200	201	202
			18		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
			19		27	27	27	27	27	27	27	27	27	27	27	27
			20		2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070
			21		Bot-5 m	300 m	250 m	250 m	200 m	175 m	150 m	150 m	125 m	100 m	75 m	50 m
			22		bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9	bot 10
			23		203	204	205	206	207	208						
			24		OXY	OXY	OXY	OXY	OXY	OXY						

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

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

Last Updated: December 2019



IOS

[illegible]

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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:	2022-070			1		234	970	9.9	2.581			1					
Event:	75			2		235A	971	9.8	2.638			2	235B	972	9.9	2.632	
Station:	3			3		236	973	9.7	2.716			3					
Event Date (Local):	2022-10-09			4		237	974	9.6	2.798			4					
Analysis Date (Local):	09 Oct 2022			5		238	975	9.6	2.847			5					
Analyst:	NS			6		239	976	9.6	2.863	-E.P. late. Sample over-filtrated.		6					
Stratization Date (Local):	09 Oct 2022			7		240	977	9.7	2.854			7					
KIO ₃ N:	0.6118990			8		241	978	9.8	2.856			8					
Standard Titer:	0.49755			9		242	979	9.9	2.969			9					
Blank Titer:	0.00030			10		243	980	10.0	3.128			10					
THIO N:	0.29340			11		244	981	10.3	3.311			11					
Sample Flask	Yes			12		245	982	10.6	3.427			12					
Water Seal?	No			13		246	983	10.9	3.538			13					
Reagent Change?	MnCl ₂			14		247	984	11.5	3.765			14					
(Please circle reagent that was changed prior to sampling and standardization)	NaCl/NaOH			15		248A	985	14.5	6.392			15	248B	986	14.5	6.406	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16		249	987	15.1	6.500			16					
	KIO ₃			17		234	235A	235B	236	237	238	239	240	241	242	243	244
	THIO			18		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Notes:	3			19		2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070
	Bot-5 m			20		300 m	300 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m
14 - Chicken & Egg.xlsx	bot 1			21		bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	
	245			22		246	247	248A	248B	249		23					
	OXY			23		OXY	OXY	OXY	OXY	OXY		24					

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 Comments
Cruise Number: 2022-070			1		250	101	9.6	2.769		1					
Event: 79			2		251	102	9.6	2.775		2					
Station: 6			3		252A	103	9.6	2.847		3	252B	104	9.7	2.851	
Event Date (Local): 2022-10-09			4		253	105	9.7	2.876		4					
Analysis Date (Local): 09 Oct. 2022			5		254	106	9.7	2.850		5					
Analyst: KS			6		255	107	9.7	2.874		6					
Stratization Date (Local): 09 Oct. 2022			7		256	108	10.0	3.211		7					
KIO ₃ N: 0.0118990			8		257	109	10.8	3.367		8					
Standard Titer: 0.49755			9		258	110	10.5	3.404		9					
Blank Titer: 0.00030			10		259A	111	16.9	3.460		10	259B	112	10.9	3.399	
THIO N: 0.29340			11		260	113	11.9	4.404		11					
Sample Flask Water Seal? ☒ Yes			12		261	114	14.0	5.967		12					
			13		262	115	16.0	6.728		13					
Reagent Change? ☐ MnCl ₂ (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK			14		250	251	252A	252B	253	254	255	256	257	258	259A
			15		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
			16		6	6	6	6	6	6	6	6	6	6	6
			17		2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070
			18		Bot-5 m	175 m	150 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m
			19		bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10
Notes:			20		259B	260	261	262							
			21		OXY	OXY	OXY	OXY							
			22		6	6	6	6							
			23		2022-070	2022-070	2022-070	2022-070							
			24		20 m	10 m	5 m	0 m							
					bot 10	bot 11	bot 12	bot 13							

12 - Humming Bird.xlsx

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

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 Comments
Cruise Number:	2022-070		1		263	1409	9.9	2.473		1					
Event:	82		2		264	3057	9.7	2.485		2					
Station:	9		3		265	639	9.8	2.804		3					
Event Date (Local):	2022-10-09		4		266	3037	9.9	2.810		4					
Analysis Date (Local):	10 Oct 2022		5		267	969	10.1	2.979		5					
Analyst:	KS		6		268	510	10.5	3.309		6					
Stratization Date (Local):	09 Oct. 2022		7		269	1401	10.7	3.432		7					
KIO ₃ N:	0.018990		8		270A	3002	10.9	3.502		8	270B	3137	10.7	3.513	bad
Standard Titer:	0.49755		9		271A	951	11.4	4.087		9	271B	3081	11.2	4.184	very bad
Blank Titer:	0.00029		10		272	20	12.3	5.772		10					
THIO N:	0.23940		11		273	569	15.0	7.463		11					
Sample Flask Water Seal?	No		12		274	673	15.5	7.117		12					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	MnCl ₂ NaI/NaOH H ₂ SO ₄ KIO ₃ THIO		13		263					269		270A		270B	
			14		OXY	OXY	OXY	OXY		OXY	OXY	OXY	OXY	OXY	
			15		9	9	9	9		9	9	9	9	9	
			16		2022-070	2022-070	2022-070	2022-070		2022-070	2022-070	2022-070	2022-070	2022-070	
			17		Bot-5 m	150 m	125 m	100 m		75 m	50 m	40 m	30 m	30 m	
			18		bot 1	bot 2	bot 3	bot 4		bot 5	bot 6	bot 7	bot 8	bot 8	
Notes: Samples did not have a water seal for 15 - Moose.xlsx about 12 hours.			19		271A	271B	272	273	274						
			20		OXY	OXY	OXY	OXY	OXY						
			21		9	9	9	9	9						
			22		2022-070	2022-070	2022-070	2022-070	2022-070						
			23		20 m	20 m	10 m	5 m	0 m						
			24		bot 9	bot 9	bot 10	bot 11	bot 12						

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

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: 2022-070			1		275	131	10.0	2.710			1						
Event: 86			2		276	132	9.9	2.711			2						
Station: 12			3		277	133	10.0	2.762			3						
Event Date (Local): 2022-10-09			4		278A	134	10.3	2.820			4	278B	135	9.9	2.813		
Analysis Date (Local): 10 Oct 2022			5		279A	136	10.2	2.837			5	279B	137	9.8	2.838		
Analyst: KS			6		280	138	9.8	2.868			6						
Standardization Date (Local): 09 Oct 2022			7		281	139	9.7	2.867			7						
KIO ₃ N: 0.0118990			8		282	140	9.8	2.838			8						
Standard Titer: 0.49755			9		283	141	9.8	2.868			9						
Blank Titer: 0.00029			10		284	142	10.1	3.154			10						
THIO N: 0.23940			11		285	143	10.3	3.376			11						
Sample Flask Water Seal? ☒ Yes			12		286	144	10.5	3.536			12						
Reagent Change? No			13		287	145	10.8	3.658			13						
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization)			14		288	146	11.6	4.345			14						
NaI/NaOH			15		289	147	13.7	5.966			15						
H ₂ SO ₄			16		290	148	15.0	6.757			16						
NOTE NEW BATCH IN LOG BOOK			17		275	276	277	278A	278B	279A	279B	280	281	282	283	284	285
KIO ₃			18		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
THIO			19		12	12	12	12	12	12	12	12	12	12	12	12	12
Notes:			20		2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070
13 - Mermaid.xlsx			21		Bot-5 m	300 m	250 m	200 m	200 m	175 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m
			22		bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11
			23		286	287	288	289	290								
			24		OXY	OXY	OXY	OXY	OXY								

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

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

Cruise and Analysis Information					
Cruise Number:	2022-070	Nisk ID	1	Nisk Int V S	
Event:	89	Sample ID	292	Flask 1	161
Station:	14		293A	Temp 1 (°C)	10.1
Event Date (Local):	2022-10-10		294	OXY-1 (mL/L)	2.735
			295		
Analysis Date (Local):	10 Oct 2022		296		
Analyst:	KS		297		
Standardization Date (Local):	09 Oct 2022		298		
KIO ₃ N:	0.0118490		299		
Standard Titer:	0.44755		300		
Blank Titer:	0.00029		301		
THIO N:	0.23940		302		
Sample Flask Water Seal?	(Yes) No		303		
			304		
Reagent Change?	MnCl ₂		305A		
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		306		
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		307		
	KIO ₃				
	THIO				
Notes:					
11 - Earth.xlsx					

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 Comments
Cruise Number: 2022-070			1		313	970	9.6	2.83		1					
Event: 93			2		314	971	9.5	2.836		2					
Station: 16			3		315	972	9.6	2.963		3					
Event Date (Local): 2022-10-10			4		316	973	10.0	3.193		4					
Analysis Date (Local): 10 Oct 2022			5	X	317A	974	10.7	3.754	vent open	5	317B	975	10.7	3.748	
Analyst: KS			6		318	976	10.7	3.790		6					
Stratization Date (Local): 9 Oct 2022			7		319	977	10.7	3.829		7					
KIO ₃ N: 0.0118990			8		320	978	10.9	3.983		8					
Standard Titer: 0.49755			9		321	979	11.8	4.209		9					
Blank Titer: 0.00029			10		322A	980	11.8	4.551		10	322B	981	11.8	4.553	
THIO N: 0.23940			11		323	982	12.0	4.654		11					
Sample Flask Water Seal? Yes			12		313	314	315	316	317A	317B	318				
			13		OXY	OXY	OXY	OXY	OXY	OXY	OXY				
Reagent Change? No			14		16	16	16	16	16	16	16				
(Please circle reagent that was changed prior to sampling and standardization)			15		2022-070	2022-070	2022-070	2022-070	2022-070	2022-070	2022-070				
NOTE NEW BATCH IN LOG BOOK			16		Bot-5 m	125 m	100 m	75 m	50 m	50 m	40 m				
			17		bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6				
			18		319	320	321	322A	322B	323					
			19		OXY	OXY	OXY	OXY	OXY	OXY					
Notes:			20		16	16	16	16	16	16					
			21		2022-070	2022-070	2022-070	2022-070	2022-070	2022-070					
14 - Chicken & Egg.xlsx			22		30 m	20 m	10 m	5 m	5 m	0 m					
			23		bot 7	bot 8	bot 9	bot 10	bot 10	bot 11					
			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.