

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:	2023-026	1	✓✓	1	130	12.5	5.279	Bot-10 m Bot 1	1					
Event:	9	2	✓✓	2	923	12.7	5.399	20 m Bot 3	2					
Station:	LB01	3	✓✓	3A	3032	13.1	5.590	10 m Bot 5	3	3B	913	13.2	5.588	
Event Date (Local):	2023-08-25	4	✓✓	4	126	13.5	5.883	5 m leaking from bottom	4					
Analysis Date (Local):	25.08.23	5							5					
Analyst:	MG	6							6					
Stdization Date (Local):	24.08.23	7							7					
KIO ₃ N:	0.0118027	8							8					
Standard Titer:	0.4926034	9							9					
Blank Titer:	6.0005356	10							10					
THIO N:	0.239627	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:	CHANGED BETWEEN CRUISES LINE P LA PERDUSE	19							19					
		20							20					
		21							21					
Snail.xlsx		22							22					
		23							23					
		24							24					

1	2	3A	3B	4
OXY	OXY	OXY	OXY	OXY
LB01	LB01	LB01	LB01	LB01
2023-026	2023-026	2023-026	2023-026	2023-026
Bot-10 m	20 m	10 m	10 m	5 m
bot 1	bot 2	bot 5	bot 5	bot 6

ot (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:	2023-026						1	✓	✓	6	1402	10.6	2.809		1					
Event:	10						2	✓	✓	7A	3096	11.7	3.807	→	2	7B	3109	11.8	3.819	OVERTITRATE EARLY
Station:	LB02						3	✓	✓	8	151	12.8	4.919		3					
Event Date (Local):	2023-08-25						4	✓	✓	9	154	13.2	5.250		4					
Analysis Date (Local):	25.08.23						5	✓	✓	10	129	13.3	5.243		5					
Analyst:	MLG						6								6					
Stdization Date (Local):	24.08.23						7								7					
KIO ₃ N:	0.0118027						8								8					
Standard Titer:	0.4926034						9								9					
Blank Titer:	0.0005356						10								10					
THIO N:	0.238627						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								20					
							21								21					
Snail.xlsx							22								22					
							23								23					
							24								24					

6	7A	7B	8	9	10
OXY	OXY	OXY	OXY	OXY	OXY
LB02	LB02	LB02	LB02	LB02	LB02
2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
Bot-10 m	20 m	20 m	10 m	5 m	5 m
bot 1	bot 2	bot 2	bot 3	bot 4	bot 5

pigot 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:	2023-026						1		12	575	9.0	1.087		1						
Event:	12						2		13A	171	9.0	1.805	→	2	13B	903	9.3	1.312		
Station:	LB04						3		14	20	9.6	1.814		3						
Event Date (Local):	2023-08-25						4		15	1192	10.9	3.286		4						
Analysis Date (Local):	Aug 25, 23						5		16	114	12.0	4.502		5						
Analyst:	Moira G.						6		17	959	13.5	6.834		6						
Stdization Date (Local):	24.08.23						7		18	109	13.6	7.060		7						
KIO ₃ N:	0.0118027						8							8						
Standard Titer:	0.4926034						9							9						
Blank Titer:	0.0005356						10							10						
THIO N:	0.239627						11							11						
Sample Flask Water Seal?	Yes No						12							12						
Reagent Change?	MnCl ₂						13							13						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						14							14						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						15							15						
	KIO ₃						16							16						
	THIO						17							17						
Notes:							18							18						
							19							19						
							20							20						
							21							21						
							22							22						
							23							23						
							24							24						

12	13A	13B	14	15	16	17	18
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LB04	LB04	LB04	LB04	LB04	LB04	LB04	LB04
2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
Bot-10 m	75 m	75 m	50 m	30 m	20 m	10 m	5 m
bot 1	bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7

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:	2023-026	1		20	1316	8.9	0.998		1					
Event:	17	2		21A	974	8.8	1.030		2	21B	2015	8.9	1.016	SOME CHEM ON KIMWIPE
Station:	LB06	3		22	3072	8.9	1.121		3					
Event Date (Local):	2023-08-25	4		23	994	9.3	2.039	OVER TITRATE WATE IN CURVE	4					
Analysis Date (Local):	26.08.23	5		24	970	10.0	2.207		5					
Analyst:	MG	6		25	140	12.1	4.847		6					
Stdization Date (Local):	24.08.23	7		26	131	14.5	7.217	CHEM ON KIMWIPE	7					
KIO ₃ N:	0.0118027	8		27	1330	14.5	7.272		8					
Standard Titer:	0.4926034	9							9					
Blank Titer:	0.0005356	10							10					
THIO N:	0.239627	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							20					
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		98							98					
		99							99					
		100							100					

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:	2023-026	1	XX	29	908	9.5	5.738	SEIGOT OPEN VENT OPEN	1					
Event:	27	2		30	105	8.9	0.912		2					
Station:	LB08	3		31	932	8.7	0.901		3					
Event Date (Local):	2023-08-25	4							4					
Analysis Date (Local):	26.08.23	5		33	173	8.9	0.815		5					
Analyst:	MG	6		34	1485	9.5	1.569		6					
Stdization Date (Local):	24.08.23	7		35	1424	10.0	2.113	FORGOT TO PUT TIP - STOP RESET	7					
KIO ₃ N:	0.0118027	8							8					
Standard Titer:	0.4926034	9		37	174	10.0	2.382		9					
Blank Titer:	0.0005356	10		38A	148	10.5	2.719	→	10	38B	101	10.6	2.714	
THIO N:	0.239627	11							11					
Sample Flask Water Seal?	Yes	12		40	964	11.8	3.966		12					
	No	13							13					
Reagent Change?	MnCl ₂	14		42	458	13.3	8.600		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					
Moose.→	29	21		31		33		34	37	38A	38B	40	42	
	OXY	22		OXY		OXY		OXY	OXY	OXY	OXY	OXY	OXY	
	LB08	23		LB08		LB08		LB08	LB08	LB08	LB08	LB08	LB08	
	2023-026	24		2023-026		2023-026		2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	
	Bot-5 m			125 m		100 m		75 m	50 m	20 m	20 m	10 m	5 m	
Bottle	bot 1	est		bot 3	er si	bot 5	est	bot 6	ten	bot 9	irc	bot 10	bot 12	xple
	bot 2												bot 14	mmments column.

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Cruise Number:	2023-026	1	✓	✓	45	3046	8.8	1.566						1					
Event:	30	2	✓	✓	46	133	8.9	1.791						2					
Station:	LB09	3	✓	✓	47	914	9.3	2.071						3					
Event Date (Local):	2023-08-25	4	✓	✓	48	3134	9.7	3.177						4					
Analysis Date (Local):	26.08.23	5	✓	✓	49	1300	9.8	3.366						5					
Analyst:	MC	6	✓	✓	50	927	10.4	2.984						6					
Stdization Date (Local):	24.08.23	7	✓	✓	51A	107	10.0	5.437						7	51B	931	10.1	5.442	
KIO ₃ N:	6.0118027	8	✓	✓	52	1358	12.6	5.300						8					
Standard Titer:	0.4926034	9	✓	✓	53	1351	14.6	7.818	DIRTY KIMWIPE					9					
Blank Titer:	0.0005356	10												10					
THIO N:	0.239627	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					
	45	20			46				47					20	52				
	OXY	21			OXY				OXY					21	OXY				
	LB09	22			LB09				LB09					22	LB09				
	2023-026	23			2023-026				2023-026					23	2023-026				
	Bot-10 m	24			125 m				75 m					24	10 m				
	bot 1				bot 2				bot 3						5 m				
									bot 4						bot 8				
									bot 5						bot 9				
									bot 6										
									bot 7										
									bot 7										

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:	2023-026	1	✓✓	55	1314	8.9	1.428		1					
Event:	33	2	✓✓	56	3034	9.0	1.389		2					
Station:	LB11	3	✓✓	57	912	9.3	2.149		3					
Event Date (Local):	2023-08-25	4	✓✓	58	3074	9.6	2.828		4					
Analysis Date (Local):	26.08.23	5	✓✓	59	1429	9.9	3.066		5					
Analyst:	MG	6	✓✓	60	1487	10.0	3.966		6					
Stdization Date (Local):	24.08.23	7	✓✓	61A	3133	10.0	5.461		7	61B	178	10.1	5.456	
KIO ₃ N:	0.0118027	8	✓✓	62	981	11.6	6.612		8					
Standard Titer:	0.4926034	9	✓✓	63	1491	13.6	6.711		9					
Blank Titer:	0.0005356	10	✓✓	64	921	14.6	6.840		10					
THIO N:	0.239627	11	✓✓	65	3116	15.0	6.729	GUESSING 15%	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					
55	56	57	58	59	60	61A	61B	62	63	64	65			
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11			
2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026			
Bot-10 m	175 m	150 m	125 m	100 m	75 m	50 m	50 m	30 m	20 m	10 m	5 m			
bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	bot 11			

Bottle 11 - test the top vent (V) by opening the lower

in the comments column.

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Cruise Number:	2023-026	1	✓✓	67	3126	7.8	1.077		1					
Event:	34	2	✓✓	68	185	8.2	1.399	DIRTY KIMWIPE ON THIS ONE	2					
Station:	LB12	3	✓✓	69	3148	8.6	1.632		3					
Event Date (Local):	2023-08-26	4	✓✓	70	122	8.8	1.526		4					
Analysis Date (Local):	26.08.23	5	✓✓	71	915	9.1	2.065		5					
Analyst:	MEg	6	✓✓	72A	569	9.3	2.482		6	72B	1425	9.4	2.477	
Stdization Date (Local):	24.08.23	7	✓✓	73	557	9.6	2.692		7					
KIO ₃ N:	0.0118027	8	✓✓	74	188	9.9	2.783		8					
Standard Titer:	0.4926034	9	✓✓	75	2043	9.9	2.429		9					
Blank Titer:	0.0005356	10	✓✓	76	142	10.2	4.180		10					
THIO N:	0.239627	11	✓✓	77	1489	10.0	6.174		11					
Sample Flask Water Seal?	Yes	12	✓✓	78	902	13.1	6.801		12					
	No	13	✓✓	79A	159	15.8	6.507		13	79B	3104	15.8	6.504	
Reagent Change?	MnCl ₂	14	✓✓	80	997	17.8	5.751		14					81
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓✓	81	3099	18.0	5.711		15					OXY
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄								16					LB12
	KIO ₃								17					2023-026
	THIO								18					5 m
														bot 15

Notes:	67	68	70	71	72A	72B	73	74	75	76	77	78	79A	79B	80
Hummir	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12
	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
	Bot-10 m	400 m	250 m	200 m	175 m	175 m	150 m	125 m	100 m	75 m	50 m	2023-026	2023-026	2023-026	2023-026
	bot 1	bot 2	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 13	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.

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Cruise Number:	2023-026						1	✓	✓	83	2098	6.3	0.319		1					
Event:	36						2	✓	✓	84	3114	6.6	0.228		2					
Station:	LB14						3	✓	✓	85	904	7.1	0.284		3					
Event Date (Local):	2023-08-26						4	✓	✓	86	973	7.8	0.829		4					
Analysis Date (Local):	26.08.23						5	✓	✓	87A	196	8.4	1.236	→	5	87B	1346	8.6	1.232	
Analyst:	MLG						6	✓	✓	88	3005	8.7	1.604		6					
Stdization Date (Local):	24.08.23						7	✓	✓	89	118	9.1	1.737		7					
KIO ₃ N:	0.0118027						8	✓	✓	90A	169	9.5	2.252	→	8	90B	3050	9.7	2.248	
Standard Titer:	0.4926034						9	✓	✓	91	3044	9.8	2.415		9					
Blank Titer:	0.0005356						10	✓	✓	92	941	10.0	2.704		10					
THIO N:	0.239627						11	✓	✓	93	111	10.3	3.074		11					
Sample Flask Water Seal?	Yes						12	✓	✓	94	953	10.6	3.493		12					
	No						13	✓	✓	95	976	10.8	4.601		13					
Reagent Change?	MnCl ₂						14	✓	✓	96	547	10.9	6.102		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15	✓	✓	97	3040	12.6	7.847		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16	✓	✓	98	1416	17.2	6.610		16					
	KIO ₃						17	✓	✓	99	971	18.0	5.714		17					
	THIO						18	X	✓	100	658	18.0	5.710	Valve was on left, loose, forgot to put tip in, RESET	18					
Notes:							19							19						

83	84	85	86	87A	87B	88	89	90A	90B	91	92	93	94	95	96	97	98
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14
2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
Bot-10 m	1000 m	750 m	500 m	400 m	400 m	300 m	250 m	200 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	30 m	20 m
bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 15	bot 16

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



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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:	2023-026	1		102 A	168	9.0	1.034		1	102 B	943	9.0	1.045	BUBBLE IN MN DISPENSE				
Event:	44	2							2					AND SEOTS ALREADY KICKED BOT 1				
Station:	B8	3							3					MISS DAMN				
Event Date (Local):	2023-08-26	4							4									
Analysis Date (Local):	26-08-23	5							5									
Analyst:	MG	6							6									
Stdization Date (Local):	24-08-23	7							7									
KIO ₃ N:	0.0118027	8							8									
Standard Titer:	0.4926034	9							9									
Blank Titer:	0.0005356	10							10									
THIO N:	0.239627	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									
	H ₂ SO ₄	16							16									
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17									
	THIO	18							18									
Notes:		19		102 A		102 B			19									
		20		OXY		OXY			20									
		21		B8		B8			21									
Chicken & Egg.xlsx		22		2023-026		2023-026			22									
		23		Bot - 10 m		Bot - 10 m			23									
		24		bot 1		bot 1			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:	2023-026	1		103	1316	10.2	2.107		1					
Event:	46	2		104	974	10.5	2.263		2					
Station:	LC01	3		105	2015	11.6	3.159		3					
Event Date (Local):	2023-08-26	4		106	3072	12.9	4.118		4					
Analysis Date (Local):	27.08.23	5		107A	994	12.8	5.143		5	107B	970	12.9	5.157	
Analyst:	MG	6		108	140	14.2	8.058		6					
Stdization Date (Local):	27.08.23	7		109	131	15.2	9.541		7					
KIO ₃ N:	0.0118027	8							8					
Standard Titer:	0.4926145	9							9					
Blank Titer:	0.0003551	10							10					
THIO N:	0.239517	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					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17					
	THIO	18							18					
Notes:	103	104	105	106	107A	107B	108	109	19					
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	20					
Moose.	LC01	LC01	LC01	LC01	LC01	LC01	LC01	LC01	21					
	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	22					
	Bot-10 m	75 m	50 m	30 m	20 m	20 m	10 m	5 m	23					
	bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (3) 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:	2023-026	1	X X	110	1330	10.0	1.879		1					
Event:	47	2	X X	111	908	10.6	2.254		2					
Station:	LC02	3	X X	112	105	11.5	3.301		3					
Event Date (Local):	2023-08-26	4	X X	113	932	12.4	4.543		4					
Analysis Date (Local):	27.08.23	5	X	114A	173	12.9	5.162		5	114B	1485	13.0	5.323	
Analyst:	MC	6	X	115	1424	13.3	5.732		6					
Stdization Date (Local):	27.08.23	7	X	116	174	14.1	6.655		7					
KIO ₃ N:	0.0118027	8							8					
Standard Titer:	0.4926145	9							9					
Blank Titer:	0.0003551	10							10					
THIO N:	0.239517	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					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17					
	THIO	18							18					
Notes:	110	111	112	113	114A	114B	115	116	19					
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	20					
Moose.xlsx	LC02	LC02	LC02	LC02	LC02	LC02	LC02	LC02	21					
	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	22					
	Bot-10 m	75 m	50 m	30 m	20 m	20 m	10 m	5 m	23					
	bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	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:	2023-026	1	✓✓	119	148	10.8	1.756		1					
Event:	51	2	✓✓	120	101	10.0	1.854		2					
Station:	LC04	3							3					
Event Date (Local):	2023-08-26	4	✓✓	122	964	10.1	2.096		4					
Analysis Date (Local):	27.08.23	5	✓✓	123	458	10.4	2.244		5					
Analyst:	MG	6							6					
Stdization Date (Local):	27.08.23	7	✓✓	125	3046	10.6	2.419		7					
KIO ₃ N:	0.0118027	8	✓✓	126	133	11.1	2.901		8					
Standard Titer:	6.4926145	9							9					
Blank Titer:	0.0003551	10	✓✓	128A	914	11.5	3.039		10	128B	3134	11.6	3.042	
THIO N:	0.239517	11	✓✓	129	1300	13.0	5.479		11					
Sample Flask Water Seal?	Yes No	12							12					
Reagent Change?	MnCl ₂	13	✓✓	131	927	13.0	5.359		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14							14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15	✓✓	133	107	13.5	5.307		15					
	KIO ₃	16							16					
	THIO	17							17					
		18							18					

Notes:	119	120	122	123	125	126	128A	128B	129	131	133
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04
Moose.xlsx	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
	Bot-10 m	150 m	125 m	100 m	75 m	50 m	30 m	30 m	20 m	10 m	5 m
	bot 1	bot 2	bot 4	bot 5	bot 7	bot 8	bot 10	bot 10	bot 11	bot 13	bot 15

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:	2023-026	1	✓✓	136	130	9.4	2.049	DIRTY KIM WIRE FORGOT THIO → RESET	1					2					
Event:	54	2	✓✓	137	923	9.5	2.019		2					3	138B	913	10.4	3.375	
Station:	LC06	3	✓✓	138A	3032	10.3	2.383		4					5					
Event Date (Local):	2023-08-26	4	✓✓	139	126	10.7	2.615		6					7					
Analysis Date (Local):	27.08.23	5	✓✓	140	1402	10.9	2.827		8					9					
Analyst:	MG	6	✓✓	141	3096	11.5	3.906		10					11					
Stdization Date (Local):	27.08.23	7	✓✓	142	3109	12.5	5.3166		12					13					
KIO ₃ N:	0.01180275	8							14					15					
Standard Titer:	0.4926145	9							16					17					
Blank Titer:	0.0003551	10							18					19					
THIO N:	0.239517	11							20					21					
Sample Flask Water Seal?	Yes No	12							22					23					
Reagent Change?	MnCl ₂	13							24										
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14																	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15																	
	KIO ₃	16																	
	THIO	17																	
Notes:		18																	
Snail.xlsx		19		136	137	138A	138B	139	140	141	142								
		20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY								
		21		LC06	LC06	LC06	LC06	LC06	LC06	LC06	LC06								
		22		2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026								
		23		Bot-10 m	75 m	50 m	50 m	30 m	20 m	10 m	5 m								
		24		bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7								

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:	2023-026	1	✓✓	143	151	9.1	1.380	Niskin leaking from bottom	1					
Event:	58	2	✓✓	144	154	9.1	1.477		2					
Station:	LC08	3	✓✓	145	129	9.3	1.810		3					
Event Date (Local):	2023-08-27	4	✓✓	146	575	9.6	2.462		4					
Analysis Date (Local):	27.08.23	5	✓✓	147	171	10.0	3.126		5					
Analyst:	MG	6	✓✓	148	903	10.3	3.836		6					
Stdization Date (Local):	27.08.23	7	✓✓	149A	20	10.4	6.257		7	1498	1192	10.5	6.255	
KIO ₃ N:	0.0118027	8	✓✓	150	114	10.9	6.730		8					
Standard Titer:	0.4926145	9	✓✓	151	959	13.4	7.124		9					
Blank Titer:	0.0003551	10	✓✓	152	109	14.7	6.779		10					
THIO N:	0.239517	11							11					
Sample Flask Water Seal?	Yes	12	✓✓	154	3033	16.6	6.163		12					
Reagent Change?	MnCl ₂	13						13						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14						14						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15						15						
	KIO ₃	16						16						
	THIO	17						17						
		18						18						
Notes:	143	144	145	146	147	148	149A	149B	19	150	151	152	154	
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	20	OXY	OXY	OXY	OXY	
	LC08	LC08	LC08	LC08	LC08	LC08	LC08	LC08	21	LC08	LC08	LC08	LC08	
Snail.xlsx	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	22	2023-026	2023-026	2023-026	2023-026	
	Bot-10 m	175 m	150 m	125 m	100 m	75 m	50 m	50 m	23	30 m	20 m	10 m	5 m	
	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	24	bot 8	bot 9	bot 10	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.

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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:	2023-026	1	✓✓	155	2098	7.5	0.631	Leaking bottom of Niskin	1										
Event:	G1	2	✓✓	156	3114	7.9	0.899		2										
Station:	LC09	3	✓✓	157	904	8.2	1.135		3										
Event Date (Local):	2023-08-27	4	✓✓	158A	973	8.7	1.642	DIRTY KIMWIPE	4	158B	196	8.7	1.635						
Analysis Date (Local):	27.08.23	5							5										
Analyst:	MLG	6	✓✓	160	1346	9.0	1.734		6										
Stdization Date (Local):	27.08.23	7	✓✓	161	3005	9.5	2.057	DIRTY KIMWIPE	7										
KIO ₃ N:	0.0118027	8	✓✓	162	118	9.6	2.342		8										
Standard Titer:	0.4926145	9	✓✓	163	169	9.9	2.612		9										
Blank Titer:	0.0003515	10	✓✓	164	3050	10.2	2.991		10										
THIO N:	0.239517	11	✓✓	165	3044	10.4	3.372		11										
Sample Flask Water Seal?	☒ Yes ☐ No	12	✓✓	166	941	10.4	4.783		12										
Reagent Change?	MnCl ₂	13	✓✓	167A	111	10.7	6.205	Two stir sticks went it by accident Fucked up first titration, overtitrated	13	167B	953	10.9	6.228	Ignore A... A is trash ;)					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	14							14										
	H ₂ SO ₄	15	✓✓	169	976	13.3	6.920		15										
	KIO ₃	16	✓✓	170	547	14.8	6.829		16										
	THIO	17							17										
Notes:		18	✓✓	172	3040	16.9	6.098		18										
		19							19										
		20	✓✓	174	1416	17.2	6.070		20										

Chicken & Egg.xlsx	155	156	157	158A	158B	160	161	162	163	164	165	166	167A	167B
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09
	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
	Bot-10 m	500 m	400 m	300 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	50 m
	bot 1	bot 2	bot 3	bot 4	bot 4	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 13

Bottle integrity: First test the top



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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:	2023-026	1		177	1314	5.4	0.634		1					
Event:	66	2		178	3034	5.6	0.379		2					
Station:	LC11	3		179	912	6.0	0.223		3					
Event Date (Local):	2023-08-27	4		180	3074	6.6	0.258		4					195 OXY LC11 2023-026 5 m bot 19
Analysis Date (Local):	28 AUG 2023	5		181	1429	6.9	0.717		5					
Analyst:	Julian	6		182	1487	7.0	1.164		6					
Stdization Date (Local):	27 AUG 2023	7		183A	3133	8.9	2.091		7	183B	178	9.1	2.086	194 OXY LC11 2023-026 10 m bot 18
KIO ₃ N:	0.0118027	8		184	981	9.0	2.429		8					
Standard Titer:	0.4926145	9		185	1491	9.3	3.009		9					
Blank Titer:	0.0003515	10		186	921	9.5	3.166		10					193B OXY LC11 2023-026 20 m bot 17
THIO N:	0.239517	11		187	3116	9.9	3.229		11					
Sample Flask Water Seal?	Yes	12		188	3126	9.9	3.477		12					
	No	13		189A	185	10.0	4.126		13	189B	3148	10.1	4.123	bubble out of NaI/NaOH
Reagent Change?	MnCl ₂	14		190	122	10.4	4.974	bubble out of NaI/NaOH	14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		191	915	10.7	6.349		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		192	569	13.3	7.524		16					
	KIO ₃	17		193A	1425	17.7	5.950		17	193B	557	17.7	5.951	193A OXY LC11 2023-026 20 m bot 17
	THIO	18		194	188	18.4	5.785		18					
Notes:		19		195	2043	18.6	5.753		19					192 OXY LC11 2023-026 30 m bot 17
		20							20					
		21							21					
		22							22					

Sample ID	Flask	Draw Temp (°C)	OXY (mL/L)	Comments
177	OXY LC11	2023-026	Bot-10 m	
178	OXY LC11	2023-026	1250 m	
179	OXY LC11	2023-026	1000 m	
180	OXY LC11	2023-026	750 m	
181	OXY LC11	2023-026	500 m	
182	OXY LC11	2023-026	400 m	
183A	OXY LC11	2023-026	300 m	bot 7
183B	OXY LC11	2023-026	300 m	bot 7
184	OXY LC11	2023-026	250 m	bot 8
185	OXY LC11	2023-026	200 m	bot 9
186	OXY LC11	2023-026	175 m	bot 10
187	OXY LC11	2023-026	150 m	bot 11
188	OXY LC11	2023-026	125 m	bot 12
189A	OXY LC11	2023-026	100 m	bot 13
189B	OXY LC11	2023-026	100 m	bot 13
190	OXY LC11	2023-026	75 m	bot 14
191	OXY LC11	2023-0	50 m	bot

Humming Bird.xlsx

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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:	2023-026						1	✓✓	217	130	7.0	6.386		1						
Event:	78						2	✓✓	218	923	7.0	0.323		2						
Station:	LD08						3	✓✓	219	3032	7.8	1.060		3						
Event Date (Local):	2023-08-28						4	✓✓	220A	913	8.5	1.468	→	4	220B	126	8.6	1.458		
Analysis Date (Local):	28.08.23						5	✓✓	221	1402	8.8	1.569		5						
Analyst:	MLG						6	✓✓	222	3096	8.9	1.446		6						
Stdization Date (Local):	27.08.23						7	✓✓	223	3109	9.0	1.294		7						
KIO ₃ N:	23.6584359						8	✓✓	224	151	9.1	1.225		8						
Standard Titer:	0.4926145						9	✓✓	225	154	9.4	1.323		9						
Blank Titer:	0.0063551						10	✓✓	226	129	9.8	2.675		10						
THIO N:	0.239517						11	✓✓	227	575	10.1	3.006		11						
Sample Flask Water Seal?	Yes						12	✓✓	228	171	10.3	3.754		12						
	No						13	✓✓	229A	903	10.3	5.265	→	13	229B	20	10.4	5.253		
Reagent Change?	MnCl ₂						14	✓✓	230	1192	10.7	6.308		14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15	✓✓	231	114	11.4	6.541	OVER-TITRATED LATE IN CURVE	15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16	✓✓	232	959	12.8	6.996		16						
	KIO ₃						17	✓✓	233	109	14.1	7.247		17						
	THIO						18							18						
Notes:							19							19						
							20							20						
							21							21						

233 OXY LD08 2023-026 5 m bot 17
232 OXY LD08 2023-026 10 m bot 16

217	218	219	220A	220B	221	222	223	224	225	226	227	228	229A	229B	230	231
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08
2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
Bot-10 m	750 m	500 m	400 m	400 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	50 m	30 m	20 m
bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 13	bot 14	bot 15

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:	2023-026	1		236	152	9.5	1.823						1					
Event:	81	2		237	3080	9.9	2.785						2					
Station:	LD06	3		238	1059	10.0	2.146						3					
Event Date (Local):	2023-08-28	4		239	900	10.5	2.413						4					
Analysis Date (Local):	28.08.23	5		240	3041	11.2	3.064						5					
Analyst:	MG	6		241	2035	11.7	3.941						6					
Stdization Date (Local):	27.08.23	7		242A	108	13.2	6.310						7	242B	918	13.1	6.317	
KIO ₃ N:	0.0118027	8		243	969	13.5	6.625						8					
Standard Titer:	0.4926145	9											9					
Blank Titer:	0.0003551	10											10					
THIO N:	0.239517	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:	236	237	238	239	240	241	242A	242B	243									
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY									
Snail.xlsx	LD06	LD06	LD06	LD06	LD06	LD06	LD06	LD06	LD06									
	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026									
	Bot-10 m	100 m	75 m	50 m	30 m	20 m	10 m	10 m	5 m									
	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8									

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:	2023-026	1		244	1316	12.7	2.791		1					
Event:	83	2		245A	974	12.5	4.345	→	2	245B	2015	12.5	4.349	
Station:	LD04	3		246	3072	12.7	4.665		3					
Event Date (Local):	2023-08-28	4		247	994	13.5	5.791		4					
Analysis Date (Local):	28.08.23	5		248	970	13.7	6.641		5					
Analyst:	MG	6							6					
Stdization Date (Local):	27.08.23	7							7					
KIO ₃ N:	0.0118027	8							8					
Standard Titer:	0.4926145	9							9					
Blank Titer:	0.0003551	10							10					
THIO N:	0.239517	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					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17					
	THIO	18							18					
Notes:	244	245A	245B	246	247	248			19					
	OXY	OXY	OXY	OXY	OXY	OXY			20					
Moose.xlsx	LD04	LD04	LD04	LD04	LD04	LD04			21					
	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026			22					
	Bot-10 m	30 m	30 m	20 m	10 m	5 m			23					
	bot 1	bot 2	bot 2	bot 3	bot 4	bot 5			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:	2023-026	1		249	140	16.5	3.690							1						
Event:	86	2		250	131	16.5	3.804							2						
Station:	LD02	3		251A	1330	11.4	5.487						→ DIFFICULT CURVE STUFF IN SAMPLE OVERTITRATE	3	251B	908	11.5	5.520	PHYTO? SILT? IN SAMPLE DIFFICULT CURVE	
Event Date (Local):	2023-08-28	4		252	105	13.5	8.130						" " "	4						
Analysis Date (Local):	28.08.23	5		253	932	14.1	8.928							5						
Analyst:	MG	6												6						
Stdization Date (Local):	27.08.23	7												7						
KIO ₃ N:	0.0118027	8												8						
Standard Titer:	0.4926145	9												9						
Blank Titer:	0.0003551	10												10						
THIO N:	0.239517	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:	249	250	251A	251B	252	253								19						
	OXY	OXY	OXY	OXY	OXY	OXY								20						
	LD02	LD02	LD02	LD02	LD02	LD02								21						
Moose.xlsx	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026								22						
	Bot-10 m	30 m	20 m	20 m	10 m	5 m								23						
	bot 1	bot 2	bot 3	bot 3	bot 4	bot 5								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:	2023-026	1		255	173	12.1	6.399		1					
Event:	88	2		256	1485	12.3	6.941		2					
Station:	LD01	3		257A	1424	13.6	7.957		3	257B	174	13.6	7.962	
Event Date (Local):	2023-08-28	4		258	148	14.2	8.481	POOR CURVE STUFF IN WATER	4					
Analysis Date (Local):	28.08.23	5							5					
Analyst:	MG	6							6					
Stdization Date (Local):	27.08.23	7							7					
KIO ₃ N:	0.0118027	8							8					
Standard Titer:	0.4926145	9							9					
Blank Titer:	0.0003551	10							10					
THIO N:	0.239517	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:	255	1		256	257A		257B	258	19					
	OXY	2		OXY	OXY		OXY	OXY	20					
	LD01	2		LD01	LD01		LD01	LD01	21					
Moose.xlsx	2023-026	2		2023-026	2023-026		2023-026	2023-026	22					
	Bot-10 m	2		20 m	10 m		10 m	5 m	23					
	bot 1	2		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.

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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: 2023-026	1	✓✓	196	2089	6.3	0.775	BUBBLES - 2 SMALL IN FLASK 2089	1					
Event: 71	2	✓✓	197	132	6.0	0.587	Niskin leaking from bottom	2					
Station: LD11	3	✓✓	198	1337	6.5	0.355	BUBBLE	3					
Event Date (Local): 2023-08-27	4	✓✓	199A	940	6.9	0.224	→ SMALL BUBBLE	4	199B	620	7.3	0.219	
Analysis Date (Local): 29.08.23	5	✓✓	200	3089	7.5	0.256	2 SMALL BUBBLES	5					
Analyst: MG	6	✗✗	201	3025	8.1	0.728	Spigot is leaking	6					
Stdization Date (Local): 28.08.23	7	✓✓	202	929	8.6	1.081		7					
KIO ₃ N: 0.0118027	8	✓✓	203	1322	8.9	1.596		8					
Standard Titer: 0.4926145	9	✓✓	204A	1002	9.3	2.144	→	9	204B	2047	9.5	2.142	
Blank Titer: 0.0003551	10	✓✓	205	115	9.5	2.696	FORGOT THIO TIP RESET	10					
THIO N: 0.239517	11	✓✓	206	510	10.0	2.712		11					
Sample Flask Water Seal? Yes	12	✓✓	207	995	10.1	3.034		12					215 OXY LD11 2023-026 5 m bot 20
No	13	✓✓	208	135	10.3	3.313		13					
Reagent Change? MnCl ₂	14	✓✓	209	2000	10.7	3.883		14					
(Please circle reagent that was changed prior to sampling and standardization)	15	✓✓	210	182	11.0	4.983		15					214 OXY LD11 2023-026 10 m bot 19
NOTE NEW BATCH IN LOG BOOK	16	✓✓	211	901	11.4	6.625	DIRTY KIMWIPE	16					
	17	✓✓	212	161	13.6	6.523		17					
	18	✓✓	213A	3059	14.7	6.658		18	213B	3020	14.8	6.686	213B OXY LD11 2023-026 20 m bot 18
Notes:	19	✓✓	214	3131	16.5	6.497		19					
	20	✓✓	215	1015	17.3	6.174		20					
Earth.xlsx	21							21					
	22							22					

196	197	198	199A	199B	200	201	202	203	204A	204B	205	206	207	208	209	210	211	212
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11
2023-026	2023-026	2023-026	2023-026	2023-026	2023-02	2023-026	2023-026	2023-026	2023-026	2023-02	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
Bot-10 m	1500 m	1250 m	1000 m	1000 m	750 m	500 m	400 m	300 m	250 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	30 m
bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 15	bot 16	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:	2023-026						1		259	1314	9.7	2.863		1						
Event:	89						2		260	3034	10.2	3.138		2						
Station:	LG01						3		261A	912	10.4	3.614	→	3	261B	3074	10.4	3.610		
Event Date (Local):	2023-08-28						4	X	262	1429	11.6	5.785	Bottom valve open	4						
Analysis Date (Local):	29.08.28						5		263	1487	12.2	7.647		5						
Analyst:	MG						6							6						
Stdization Date (Local):	28.08.23						7							7						
KIO ₃ N:	0.0118027						8							8						
Standard Titer:	0.4926145						9							9						
Blank Titer:	0.0003551						10							10						
THIO N:	0.239517						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							20						
							21							21						
							22							22						
							23							23						
							24							24						

CHANGED BOT 1 BOTTOM O RING

Humming Bird.xlsx

259	260	261A	261B	262	263
OXY	OXY	OXY	OXY	OXY	OXY
LG01	LG01	LG01	LG01	LG01	LG01
2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
Bot-10 m	30 m	20 m	20 m	10 m	5 m
bot 1	bot 2	bot 3	bot 3	bot 4	bot 5

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:	2023-026	1		264	3133	7.7	2.402		1					
Event:	90	2		265A	178	8.0	2.232		2	265B	981	8.1	3.122	OVERTITRATE - FORGOT STIRRER BUT
Station:	LG02	3		266	1491	8.1	3.061		3					LOOKS LIKE OVER END POINT ALREADY
Event Date (Local):	2023-08-28	4							4					DAMN @*!!
Analysis Date (Local):	29.08.23	5		268	921	8.9	3.732		5					
Analyst:	MG	6							6					
Stdization Date (Local):	28.08.23	7		270	3116	9.5	5.019		7					
KIO ₃ N:	0.0118027	8		271	3126	10.3	6.684		8					
Standard Titer:	0.4926145	9							9					
Blank Titer:	0.0003551	10		273	185	12.2	7.711		10					
THIO N:	0.239517	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							20					

Humming Bird.xlsx	264	265A	265B	266	268	270	271	273
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	LG02	LG02	LG02	LG02	LG02	LG02	LG02	LG02
	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
	Bot-10 m	75 m	75 m	50 m	30 m	20 m	10 m	5 m
	bot 1	bot 2	bot 2	bot 3	bot 5	bot 7	bot 8	bot 10

Bottle integrity: First t

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:	2023-026	1	✓✓	277	3148	7.8	1.899	OVERTITRATE MESSY CURVE	1					
Event:	94	2	✓✓	278	122	7.9	1.975		2					
Station:	LG04	3	✓✓	279	915	8.3	2.534		3					
Event Date (Local):	2023-08-29	4	✓✓	280	569	8.5	2.647		4					
Analysis Date (Local):	28.08.23	5	✓✓	281	1425	8.9	3.150		5					
Analyst:	MG	6	✓✓	282A	557	9.0	4.117		6	282B	188	9.1	4.133	OVERTITRATE LATE IN CURVE
Stdization Date (Local):	28.08.23	7	✓✓	283	2043	10.1	4.868	7						
KIO ₃ N:	0.0118027	8	✓✓	284	142	12.5	7.598	8						
Standard Titer:	0.4926145	9	✓✓	285	1489	12.8	7.854	9						
Blank Titer:	0.0003551	10						10						
THIO N:	0.239517	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					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20		277	278	279	280	281	282A	282B	283	284	285	
		21		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
		22		LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04	
		23		2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	
		24		Bot-10 m	125 m	100 m	75 m	50 m	30 m	30 m	20 m	10 m	5 m	
				bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9	

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

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:	2023-026	1	✓✓	286	130	4.9	0.219		1					
Event:	98	2	✓✓	287	923	5.7	0.308		2					
Station:	LG06	3	✓✓	288A	3032	6.6	0.929	→	3	288B	913	6.9	0.931	
Event Date (Local):	2023-08-29	4	✓✓	289	126	7.1	1.173		4					
Analysis Date (Local):	29.08.23	5	✓✓	290	1402	7.8	1.528		5					
Analyst:	MG	6	✓✓	291	3096	7.6	1.618		6					
Stdization Date (Local):	28.08.23	7	✓✓	292	3109	8.3	2.024		7					
KIO ₃ N:	0.0118027	8	✓✓	293	151	8.4	2.209		8					
Standard Titer:	0.4926145	9	✓✓	294	154	8.7	2.468		9					
Blank Titer:	0.0003551	10	✓✓	295	129	9.1	2.643		10					
THIO N:	0.239517	11	✓✓	296	575	9.3	2.946		11					
Sample Flask Water Seal?	Yes No	12	✓✓	297	171	9.4	3.556		12					
Reagent Change?	MnCl ₂	13	✓✓	298	903	9.1	5.760		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓✓	299A	20	9.9	6.820	→	14	299B	1192	10.0	6.823	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15	✓✓	300	114	13.6	6.712		15					
	KIO ₃	16	✓✓	301	959	17.0	5.897		16					
	THIO	17	✓✓	302	109	17.6	5.711		17					
Notes:		18							18					
		19							19					
		20							20					
Snail.xlsx		21							21					

286	287	288A	288B	289	290	291	292	293	294	295	296	297	298	299A	299B	300	301	302
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06
2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
Bot-10 m	750 m	500 m	500 m	400 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	30 m	30 m	20 m	10 m	5 m
bot 1	bot 2	bot 3	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 14	bot 15	bot 16	bot 17

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:	2023-026	1	✓✓	320	130	6.1	0.213		1					
Event:	117	2	✓✓	321	923	6.6	0.334		2					
Station:	LBP7	3	✓✓	322	3032	7.4	0.903		3					
Event Date (Local):	2023-08-30	4	✓✓	323	913	8.0	1.247		4					
Analysis Date (Local):	30.08.23	5	✓✓	324	126	8.5	1.641		5					
Analyst:	MG	6	✓✓	325	1402	8.9	1.860		6					
Stdization Date (Local):	28.08.23	7	✓✓	326A	3096	9.5	2.376	→	7	326B	3109	9.6	3.377	
KIO ₃ N:	0.0118027	8	✓✓	327	151	9.6	2.527		8					
Standard Titer:	0.4926145	9	✓✓	328	154	9.9	2.709		9					
Blank Titer:	0.0003551	10	✓✓	329	129	10.3	3.035		10					
THIO N:	0.239517	11	✓✓	330	575	10.3	3.708		11					
Sample Flask Water Seal?	Yes	12	✓✓	331	171	8.3	4.788		12					
	No	13	✓✓	332	903	9.3	6.290		13					
Reagent Change?	MnCl ₂	14	✓✓	333	20	11.9	6.096		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓✓	334A	1192	12.8	6.137	→	15	334B	114	13.1	6.137	
	H ₂ SO ₄	16	✓✓	335	959	15.6	6.468		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17	✓✓	336	109	17.6	5.883		17					
	THIO	18							18					
Notes:		19							19					
		20							20					
Snail.xlsx		21							21					

320	321	322	323	324	325	326A	326B	327	328	329	330	331	332	333	334A	334B	335	336
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7
2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
1000 m	750 m	500 m	400 m	300 m	250 m	200 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	30 m	20 m	20 m	10 m	5 m
bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 15	bot 16	bot 17	bot 18

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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:	2023-026	1		338	1314	2.4	0.236		1					
Event:	120	2		339	3034	2.9	0.363	FORGOT THIS TIP - RESET	2					
Station:	LBP5	3		340	912	3.7	0.998		3					
Event Date (Local):	2023-08-30	4		341A	3074	4.6	1.233	→	4	341B	1429	4.4	1.230	
Analysis Date (Local):	30-08-23	5		342	1487	4.9	1.463		5					
Analyst:	MG	6		343	3133	5.0	1.592		6					
Stdization Date (Local):	28-08-23	7		344	178	6.9	1.778		7					
KIO ₃ N:	0.0118027	8		345	981	8.9	1.809		8					
Standard Titer:	0.4926145	9		346	1491	9.1	1.967		9					
Blank Titer:	0.0003551	10		347	921	9.2	2.283		10					
THIO N:	0.239517	11		348	3116	9.5	2.621		11					
Sample Flask Water Seal?	Yes	12		349	3126	9.7	3.024		12					
	No	13		350A	185	9.8	3.616	→	13	350B	3148	9.8	3.609	
Reagent Change?	MnCl ₂	14		351	122	9.6	5.074	OVER-TITRATE - LATE IN CURVE	14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		352	915	10.2	5.283		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		353	569	11.7	5.928		16					
	KIO ₃	17		354	1425	15.0	7.139		17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					

338	339	340	341A	341B	342	343	344	345	346	347	348	349	350A	350B	351	352	353	354
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5
2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
1000 m	750 m	500 m	400 m	400 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	50 m	30 m	20 m	10 m	5 m
bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 13	bot 14	bot 15	bot 16	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:	2023-026	1		355	1316	4.6	1.996							1						
Event:	123	2		356	974	4.6	2.037							2						
Station:	LBP3	3		357	2015	4.8	2.434							3						
Event Date (Local):	2023-08-30	4		358	3072	4.9	2.632							4						
Analysis Date (Local):	30.08.23	5		359	994	5.2	2.833							5						
Analyst:	Me	6		360	970	5.7	2.902							6						
Stdization Date (Local):	28.08.23	7												7						
KIO ₃ N:	0.0718027	8		362	140	6.0	3.155							8						
Standard Titer:	0.4926145	9		363	131	6.9	4.529							9						
Blank Titer:	0.0003551	10												10						
THIO N:	0.239517	11		365	1330	9.2	6.687							11						
Sample Flask Water Seal?	Yes	12												12						
	No	13		367A	908	10.9	6.979	→						13	367B	105	10.9	6.984		
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						

	355	356	357	358	359	360	362	363	365	367A	367B
Moose.xlsx											
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3
	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
	10 m	150 m	125 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m	5 m
Bottle integrity: Fir	bot-10 m	bot 2	bot 3	bot 4	bot 5	bot 6	bot 8	bot 9	bot 11	bot 13	bot 13
	bot 1										

this in the comments column.

*Temperatures colder than previous sensors → ongoing issues with previous thermometer?

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:	2023-026						1	✓✓	370	1314	5.1	6.267			1					
Event:	135						2	✓✓	371A	3034	5.8	0.361			2	371B	912	5.8	0.370	
Station:	CS00						3	✓✓	372	3074	6.5	0.826			3					
Event Date (Local):	2023-08-31						4	✓✓	373	1429	6.8	1.048			4					
Analysis Date (Local):	31.08.23						5	✓✓	374	1487	7.3	1.821			5					
Analyst:	MG						6	✓✓	375	3133	7.6	2.077			6					
Stdization Date (Local):	31.08.23						7	✓✓	376	178	8.0	2.437			7					
KIO ₃ N:	0.0118027						8	✓✓	377	981	8.4	2.702			8					
Standard Titer:	0.4924052						9	✓✓	378A	1491	9.3	2.875			9	378B	921	9.3	2.866	
Blank Titer:	0.0003856						10	✓✓	379	3116	9.0	3.470			10					
THIO N:	0.239539						11	✓✓	380	3126	9.1	4.492			11					
Sample Flask Water Seal?	Yes						12	✓✓	381	185	9.3	6.341			12					
	No						13	✓✓	382	3148	10.5	6.922			13					
Reagent Change?	MnCl ₂						14	✓✓	383	122	12.0	6.930			14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15	✓✓	384A	915	14.1	6.596			15	384B	569	14.1	6.597	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16	✓✓	385	1425	16.2	6.000			16					
	KIO ₃						17	✓✓	386	557	16.6	6.969			17					
	THIO						18								18					
							19								19					

370
OXY
CS00
2023-026
1000 m
bot 1

371A
OXY
CS00
2023-026
750 m
bot 2

371B
OXY
CS00
2023-026
750 m
bot 2

372
OXY
CS00
2023-026
500 m
bot 3

373
OXY
CS00
2023-026
400 m
bot 4

374
OXY
CS00
2023-026
300 m
bot 5

375
OXY
CS00
2023-026
250 m
bot 6

376
OXY
CS00
2023-026
200 m
bot 7

377
OXY
CS00
2023-026
175 m
bot 8

378A
OXY
CS00
2023-026
150 m
bot 9

379
OXY
CS00
2023-026
125 m
bot 10

380
OXY
CS00
2023-026
100 m
bot 11

381
OXY
CS00
2023-026
75 m
bot 12

382
OXY
CS00
2023-026
50 m
bot 13

383
OXY
CS00
2023-026
30 m
bot 14

384A
OXY
CS00
2023-026
20 m
bot 15

384B
OXY
CS00
2023-026
20 m
bot 15

385
OXY
CS00
2023-026
10 m
bot 16

386
OXY
CS00
2023-026
5 m
bot 17

Temperature sensor stopped working. Backup sensor also wasn't working.

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:	2023-026						1		391	1316	6.4	0.214		1						
Event:	142						2		392A	974	6.6	0.318	→	2	392B	2015	6.6	0.312	DIRTY KIMWIRE	
Station:	CS02						3		393	3072	7.3	0.809		3						
Event Date (Local):	2023-08-31						4		394	994	7.6	1.140		4						
Analysis Date (Local):	31.08.23						5		395	970	8.0	1.156		5						
Analyst:	MG						6		396	140	8.0	1.181		6						
Stdization Date (Local):	31.08.23						7		397	131	8.5	2.071		7						
KIO ₃ N:	0:0118027						8		398	1330	8.5	2.176		8						
Standard Titer:	0.4924052						9		399	908	8.6	2.376		9						
Blank Titer:	0.6003856						10		400A	105	8.7	2.559	→	10	400B	932	8.9	2.562		
THIO N:	0.239539						11		401	173	8.7	2.899	WEIRD CURVE OVERTITRATE	11						
Sample Flask Water Seal?	Yes						12		402	1485	8.7	3.232		12						
	No						13		403	1424	9.0	3.595		13						
Reagent Change?	MnCl ₂						14							14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		405	174	10.0	3.900		15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16		406A	148	10.7	4.518	→	16	406B	101	10.8	4.576		
	KIO ₃						17							17						
	THIO						18		408	964	14.8	6.572		18						
							19							19						
							20		410	458	14.8	6.769		20						
							21							21						

2023-026
CS02
OXY
391
bot 1
1000 m
Moose.xlsx

392A	392B	393	394	395	396	397	398	399	400A	400B	401	402	403	405	406A	406B	408	410
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02
2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
750 m	750 m	500 m	400 m	300 m	250 m	200 m	175 m	150 m	125 m	125 m	100 m	75 m	50 m	30 m	20 m	20 m	10 m	5 m
bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10	bot 11	bot 12	bot 13	bot 15	bot 16	bot 16	bot 18	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 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2023-026	1		414	3046	8.9	2.494		1					
Event:	148	2		415	133	8.9	2.639		2					
Station:	CS04	3		416	914	9.4	3.336		3					
Event Date (Local):	2023-08-31	4		417	3134	9.8	3.865		4					
Analysis Date (Local):	31-08-23	5		418A	1300	10.6	4.563	→	5	418B	927	10.6	4.600	
Analyst:	MG	6		419	107	10.9	4.832		6					
Stdization Date (Local):	31-08-23	7		420	931	12.1	0.543	STUFF IN SAMPLE OVERTITRATE FORGOT T	7					SERIOUSLY SCREWED UP
KIO ₃ N:	0.0118027	8		421	1358	12.8	6.349	TIP AFTER DECANT-ADD THIS T	8					PREVIOUS ?
Standard Titer:	0.4924052	9						OVERTITRATE STUFF IN SAMPLE - DECANT	9					
Blank Titer:	0.0003856	10							10					
THIO N:	0.239539	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							20					

Bottle integrity: bot 1 bot 2 bot 3 bot 4 bot 5 bot 6 bot 7 bot 8

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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:	2023-026	1		423	1314	9.5	3.360		1					
Event:	165	2		424	3034	9.5	3.404		2					
Station:	CS06	3		425A	912	9.6	3.530	→ Colour on kimwipe	3	425B	3074	9.8	3.524	
Event Date (Local):	2023-09-01	4		426	1429	11.9	4.721		4					
Analysis Date (Local):	02 Sep 2023	5		427	1487	13	3.5209		5					
Analyst:	Julian	6		428	3133	15.4	6.004		6					
Stdization Date (Local):	31 Aug 2023	7		429	178	15.9	6.083		7					
KIO ₃ N:	0.0118027	8							8					
Standard Titer:	0.4924052	9							9					
Blank Titer:	0.0003856	10							10					
THIO N:	0.239539	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					
	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					
Humming Bird.xlsx		22							22					
		23							23					
		24							24					

423	424	425A	425B	426	427	428	429
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
CS06	CS06	CS06	CS06	CS06	CS06	CS06	CS06
2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
Bot-5 m	Bot-10 m	50 m	50 m	30 m	20 m	10 m	5 m

ent. 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:	2023-026						1		434	981	8.5	1.294		1						
Event:	171						2		435	1491	8.4	1.308		2						
Station:	CS09						3		436	921	8.4	1.314		3						
Event Date (Local):	2023-09-01						4		437	3116	8.3	1.312		4						
Analysis Date (Local):	02 Sep 2023						5							5						
Analyst:	Julian						6		439	3126	8.4	1.592		6						
Stdization Date (Local):	31 Aug 2023						7		440	185	8.6	2.154		7						
KIO ₃ N:	0.0118027						8							8						
Standard Titer:	0.4924052						9		442	3148	9.0	3.005		9						
Blank Titer:	0.0003456						10		443A	122	9.5	2.992	→	10	443B	915	9.5	2.986	→	
THIO N:	0.239539						11							11						
Sample Flask Water Seal?	Yes						12		445	569	11.3	4.193	overtitrated & curve looked bad	12						
	No						13		446	1425	14.1	6.068		13						
Reagent Change?	MnCl ₂						14							14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		448	557	15.0	6.354	overtitrated & curve looked bad => steps	15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16							16						
	KIO ₃						17		450	188	15.0	6.295		17						
	THIO						18							18						
Notes:							19							19						
							20							20						
Humming Bird.xlsx							21							21						

plain 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:	2023-026	1		454	130	10.0	3.194		1					
Event:	160	2		455A	923	9.9	3.245	→ CANNOT EXPLAIN, HOPE THE NEXT	2	455B	3032	10.0	3.296	REALLY BAD JUST A SUPER BAD DUPLICATE
Station:	14	3		456	913	9.9	3.451	→ DUP 16 / NOT AS BAD	3					
Event Date (Local):	2023-09-02	4		457	126	10.0	3.587		4					
Analysis Date (Local):	02.09.23	5		458	1402	9.9	3.560		5					
Analyst:	MG	6		459	3096	9.9	3.602		6					
Stdization Date (Local):	31.08.23	7		460	3109	10.3	3.517		7					
KIO ₃ N:	0.0118027	8		461	151	10.3	3.393		8					
Standard Titer:	0.4924052	9		462	154	10.4	3.448		9					
Blank Titer:	0.0003856	10		463	129	10.9	3.881		10					
THIO N:	0.239539	11		464	575	11.3	4.071		11					
Sample Flask Water Seal?	Yes	12		465	171	11.3	4.123		12					
	No	13		466	903	11.5	4.371		13					
Reagent Change?	MnCl ₂	14		467A	20	11.9	4.625	→ BOTTOM LEAKING, RESET	14	467B	1192	11.9	4.637	ALMOST AS BAD
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		468	114	15.3	6.943	OVER TITRATE - LATE IN CURVE	15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		469	959	15.8	7.203		16					
	KIO ₃	17						MISSED A BOTTLE	17					
	THIO	18						LABEL BOT 4 → 5 200 M	18					
Notes:		19						5 → 4 175 M	19					
		20							20					
		21							21					

Snail.xlsx

454	455A	455B	456	457	458	459	460	461	462	463	464	465	466	467A	467B	468	469
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
Bot-5 m	300 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m	10 m	10 m	5 m	0 m
bot 1	bot 2	bot 2	bot 3	bot 4	bot 4	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 14	bot 15	bot 16

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:	2023-026	1		471	1314	10.0	3.475		1					
Event:	183	2		472	3034	10.0	3.526		2					
Station:	12	3		473	912	9.9	3.446		3					
Event Date (Local):	2023-09-02	4		474A	3074	9.9	3.480	→	4	474B	1429	10.0	3.496	↑ 5
Analysis Date (Local):	02.09.23	5		475A	1487	9.9	3.515	→	5	475B	3133	10.1	3.516	☺
Analyst:	MG	6		476	178	9.9	3.848		6					
Stdization Date (Local):	31.09.23	7		477	981	10.3	3.379	OVERTITRATE - LATE INCURVE	7					
KIO ₃ N:	0.0118027	8		478	1491	10.5	3.340		8					
Standard Titer:	0.4924652	9		479	921	10.6	3.510		9					
Blank Titer:	0.0003856	10		480	3116	10.6	3.549		10					
THIO N:	0.239539	11		481	3126	10.6	3.591	AIR BUBBLE IN NaOH (REDRAW)	11					
Sample Flask Water Seal?	Yes	12		482	185	11.1	3.692		12					
	No	13		483	3148	11.7	3.907		13					
Reagent Change?	MnCl ₂	14		484	122	12.5	4.428		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		485	915	14.4	5.780		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		486	569	15.2	6.067		16					
	KIO ₃	17		487	509				17					
	THIO	18							18					
Notes:		19						MISSED A BOTTLE (AGAIN)	19					
		20						Bot 1 is 300m 471	20					
		21						2 is 250m 472	21					
		22						3 is Bot-5 3514 473	22					

471	472	473	474A	474B	475A	475B	476	477	478	479	480	481	482	483	484	485	486
OXY	OXY	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	12	12
2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026	2023-026
300m Bot-5	300m Bot-5	250m Bot-5	200m Bot-4	200m Bot-4	175m Bot-5	175m Bot-5	150m Bot-6	125m Bot-7	100m Bot-8	75m Bot-9	50m Bot-10	40m Bot-11	30m Bot-12	20m Bot-13	10m Bot-14	5m Bot-15	0m Bot-16
hot 1	hot 2	hot 3	hot 4	hot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 15	bot 16