

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2024-020	1		454	130	11.0	3.633		1					
Event:	155	2							2					
Station:	12	3		456	923	11.0	3.083	OTX1 due to late endpoint. OT good	3					
Event Date (Local):	12-09-24	4							4					
Analysis Date (Local):	13 Sep 2024	5		458	3032	11.1	3.078		5					
Analyst:	ER	6							6					
Stdization Date (Local):	12 Sep 2024	7		460	913	11.3	2.981		7					
KIO ₃ N:	0.0122436	8							8					
Standard Titer:	0.517993	9		462	126	11.3	2.931		9					
Blank Titer:	0.0001689	10							10					
THIO N:	0.239257	11		464A	1402	12.3	3.576	bubble in sample	11	464B	3096	12.3	3.546	
Sample Flask Water Seal?	Yes	12							12					
	No	13		466	3109	13.6	5.063		13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		468	151	16.3	6.982		15					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17					
	THIO	18							18					
Notes:	454	456	458	460	462	464A	464B	466	468					
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY					
	12	12	12	12	12	12	12	12	12					
Snail.xlsx	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020					
	bot-10 m	300 m	250 m	150 m	50 m	20 m	20 m	10 m	5 m					
	bot 1	bot 3	bot 5	bot 7	bot 9	bot 11	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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Snail

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Cruise Number: 2024-020	1	✓	482	129	11.3	2.913	→	1	482B	918	11.5	2.911	
Event: 165	2							2					
Station: GEO1	3	✓	484	575	11.3	2.981	→	3	482B	969	11.5	2.979	Draw temp wrong - recalc.
Event Date (Local): 13-09-24	4							4					
Analysis Date (Local): 13 Sep 2024	5	✓	486	171	11.4	3.122	→	5	486B	1400	11.5	3.122	
Analyst: ER	6							6					
Stdization Date (Local): 12 Sep 2024	7	✓	488	903	11.7	3.185		7					
KIO ₃ N: 0.0122436	8							8					
Standard Titer: 0.5117993	9	✓	490	20	11.3	3.237		9					
Blank Titer: 0.0001689	10							10					
THIO N: 0.239257	11	J	492A	1192	12.6	3.339	→	11	492B	114	12.6	3.338	
Sample Flask Water Seal? Yes	12	J						12					
No	13	J	494	959	16.9	5.922		13					
Reagent Change? MnCl ₂	14	J						14					
(Please circle reagent that was changed prior to sampling and standardization)	15	J	496	109	18.8	6.334		15					
H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	17							17					
KIO ₃	18							18					
THIO	19							19					
Notes:													
Snail.xlsx													

482
OXY
GEO1
2024-020
Bot-10 m
bot 1

484
OXY
GEO1
2024-020
350 m
bot 3

486
OXY
GEO1
2024-020
250 m
bot 5

488
OXY
GEO1
2024-020
150 m
bot 7

490
OXY
GEO1
2024-020
50 m
bot 9

492A
OXY
GEO1
2024-020
20 m
bot 11

492B
OXY
GEO1
2024-020
20 m
bot 11

494
OXY
GEO1
2024-020
10 m
bot 13

496
OXY
GEO1
2024-020
5 m
bot 15

482B
OXY
GEO1
2024-020
Bot-10 m
bot 1

484B
OXY
GEO1
2024-020
350 m
bot 3

486B
OXY
GEO1
2024-020
250 m
bot 5

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. explain this in the comments column.

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Cruise Number: 2024-020	1							1					
Event: 170	2							2					
Station: 42	3		500A	176	11.6	3.081		3	500B	189	11.7	3.083	
Event Date (Local): 13-09-24	4							4					
Analysis Date (Local): 13 Sep 2024	5	-	502A	3075	11.8	3.137		5	502B	647	11.9	3.132	
Analyst: ER	6							6					
Stdization Date (Local): 12 Sep 2024	7	-	504	439	12.5	3.533		7					
KIO ₃ N: 0.0122436	8							8					
Standard Titer: 0.5117993	9	J	506A	22	13.9	3.854		9	506B	2032	14.0	3.882	NaI-NaOH bubble.
Blank Titer: 0.0001689	10	J						10					
THIO N: 0.239257	11	J	508	910	17.2	5.427		11					
Sample Flask Water Seal? Yes	12	J						12					
No	13	J	510	2025	19.5	6.290		13					
Reagent Change? MnCl ₂	14		500A	500B									
(Please circle reagent that was changed prior to sampling and standardization)	15		OXY	OXY	502A	502B							
NOTE NEW BATCH IN LOG BOOK	16		42	42	OXY	OXY							
	17		2024-020	2024-020	42	42							
	18		250 m	250 m	2024-020	2024-020							
	19		bot 3	bot 3	150 m	150 m							
Notes:	20												
	21												
Tall Ship.xlsx	22												
	23												
	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: 2024-020 191	1		435	908	8.2	1.374		1					
Event: 148 186	2		436	932	8.2	1.384		2					
Station: CS09 150	3		437	173	8.4	1.779		3					
Event Date (Local): 11-09-24 125	4	5	438	1485	8.9	2.764	SN#4397	4					
Analysis Date (Local): 12 Sep 2024	5							5					
Analyst: ER 100	6		440A	1424	9.7	2.701		6	440B	174	9.1	2.987	BAD CURVE.
Stdization Date (Local): 12 Sep 2024 75	7	8	441	148	9.6	3.369	SN#4427	7					
KIO ₃ N: 0.0122436	8							8					
Standard Titer: 0.5117993	9		443	101	10.5	3.837		9					
Blank Titer: 0.0001689	10		444	964	10.5	4.056		10					
THIO N: 0.239257	11							11					
Sample Flask Water Seal? ☒ Yes ☐ No	12		446	458	11.1	4.246	OTX1 due to late EP. or OK.	12					
	13		447A	3046	11.5	4.367		13	447B	133	11.5	4.219	
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15		449	914	12.9	6.374		15					
NOTE NEW BATCH IN LOG BOOK	16							16					
	17		451	3134	13.9	7.214		17					
	18							18					
Notes:	19							19					
changed chems @ station CS06	20		435					20					
Moose.xlsx	21		OXY					21					
	22		CS09					22					
	23		2024-020					23					
	24		Bot-5 m					24					
			bot 1										
			436										
			OXY										
			CS09										
			2024-020										
			Bot-10 m										
			bot 2										
			437										
			OXY										
			CS09										
			2024-020										
			150 m										
			bot 3										
			438										
			OXY										
			CS09										
			2024-020										
			180 m										
			bot 4										
			440A										
			OXY										
			CS09										
			2024-020										
			120 m										
			bot 6										
			440B										
			OXY										
			CS09										
			2024-020										
			150 m										
			bot 8										
			441										
			OXY										
			CS09										
			2024-020										
			60 m										
			bot 9										
			443										
			OXY										
			CS09										
			2024-020										
			50 m										
			bot 10										
			444										
			OXY										
			CS09										
			2024-020										
			30 m										
			bot 12										
			445										
			OXY										
			CS09										
			2024-020										
			20 m										
			bot 13										
			446										
			OXY										
			CS09										
			2024-020										
			20 m										
			bot 13										

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

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Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2024-020	1		426	1316	9.7	3.145		1					
Event: 141	2		427	974	9.7	3.165		2					
Station: CS06	3		428A	2015	9.8	3.238	OTx1 due to late EP. OT good.	3	428B	994	9.9	3.237	
Event Date (Local): 11-09-24	4		429	970	10.9	4.040		4					
Analysis Date (Local): 12 Sep 2024	5		430	140	13.1	6.399		5					
Analyst: ER	6		431	131	13.9	7.448	OTx1 due to late EP. Still late.	6	OZCheel		14	3.33	0.78751 - titer/10
Stdization Date (Local): 12 Sep 2024	7		432	1330	14.1	7.506		7					
KIO ₃ N: 0.0122436	8							8					
Standard Titer: 0.5117993	9							9					
Blank Titer: 0.0001689	10							10					
THIO N: 0.239257	11							11					
Sample Flask Water Seal? Yes No	12							12					
Reagent Change? MnCl₂ 2122 Mix	13							13					
(Please circle reagent that was changed prior to sampling and standardization)	14							14					
NOTE NEW BATCH IN LOG BOOK	15							15					
	16							16					
	17							17					
	18							18					
Notes:	19							19					
426	20							20					
OXY	21							21					
CS06	22							22					
2024-020	23							23					
Bot-5 m	24							24					
bot 1													
427													
OXY													
CS06													
2024-020													
Bot-10 m													
bot 2													
428A													
OXY													
CS06													
2024-020													
50 m													
bot 3													
428B													
OXY													
CS06													
2024-020													
50 m													
bot 3													
429													
OXY													
CS06													
2024-020													
30 m													
bot 4													
430													
OXY													
CS06													
2024-020													
20 m													
bot 5													
431													
OXY													
CS06													
2024-020													
10 m													
bot 6													
432													
OXY													
CS06													
2024-020													
5 m													
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 Number:	2024-020	1		418	3206	9.7	3.147		1					
Event:	134	2		419	1085	9.8	3.508		2					
Station:	CS04	3		420	3196	9.8	4.374		3					
Event Date (Local):	11-09-24	4		421	3171	10.5	5.461		4					
Analysis Date (Local):	11 Sep 2024	5		422	3174	13.9	5.840		5					
Analyst:	ER	6		423A	3038	16.6	6.182		6	423B	3182	16.6	6.189	
Stdization Date (Local):	10 Sep 2024	7		424	1440	16.5	6.284		7					
KIO ₃ N:	0.0122436	8		425	3191	16.7	6.293		8					
Standard Titer:	0.5146571	9												
Blank Titer:	0.000052	10		418		419	420	421	422	423A		423B		424
THIO N:	0.23816	11		OXY		OXY	OXY	OXY	OXY	OXY		OXY		OXY
Sample Flask Water Seal?	Yes No	12		CS04		CS04	CS04	CS04	CS04	CS04		CS04		425
Reagent Change?	MnCl ₂	13		2024-020		2024-020	2024-020	2024-020	2024-020	2024-020		2024-020		OXY
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		Bot-5 m		Bot-10 m	75 m	50 m	30 m	20 m		20 m		CS04
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		bot 1		bot 2	bot 3	bot 4	bot 5	bot 6		bot 6		2024-020
	KIO ₃	16												5 m
	THIO	17												bot 8
Notes:		18												
		19												
		20												
		21												
		22												
		23												
		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: 2024-020	1		397A	2098	7.3	0.240	→	1	397B	165	7.6	0.238	
Event: 131	2		398	3114	7.6	0.261		2					
Station: CS02	3		399	904	8.1	0.1082		3					
Event Date (Local): 11-09-24	4		400	973	8.3	1.049		4					
Analysis Date (Local): 11 Sep 2024	5		401	196	8.6	1.459		5					
Analyst: ER	6		402	1346	8.6	1.969		6					
Stdization Date (Local): 10 Sep 2024	7		403	3005	8.9	2.590		7					
KIO ₃ N: 0.0122436	8		404	118	9.0	3.045		8					
Standard Titer: 0.5140571	9		405A	169	9.1	3.843	→	9	405B	3047	9.4	3.353	
Blank Titer: 0.000052	10		406	3050	9.3	3.440		10					
THIO N: 0.23816	11		407	3044	9.4	4.445	O2check 0.45375 (late EP)	11					
Sample Flask Water Seal? Yes	12		408	941	10.0	4.392	10.0	12					
No	13		409	111	12.7	5.629	12.7	13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15	/	411	953	13.1	5.921		15					
NOTE NEW BATCH IN LOG BOOK	16	/	412	976	16.7	6.026		16					
	17							17					
	18	/	414	547	18.1	5.752		18					
Notes:	19							19					
	20		416	3040	18.2	5.759		20					

Chicken & Egg.xlsx	397	398	399	400	401	402	403	404	405 A	406	407	408	409	411	412
	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
	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020
Bottle integrity: Firs	1000 m	750 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	20 m
	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 15	bot 16

397B
OXY
CS02
2024-020
1000m
bot 1

405B
OXY
CS02
2024-020
150m
bot 9

416
OXY
CS02
2024-020
5 m
bot 20

414
OXY
CS02
2024-020
10 m
bot 18

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Cruise Number: 2024-020	1	✓	378	176	6.7	0.246	OT x1 due to late EP. GT good.	1					
Event: 126	2	✓	379	189	7.1	0.276		2					
Station: CS00	3	✓	380	3075	7.5	0.600		3					
Event Date (Local): 10-09-24	4	✓	381	647	7.6	0.954		4					
Analysis Date (Local): 11 Sep 2024	5	✓	382	439	8.0	1.481		5					
Analyst: ER	6	✓	383	22	8.1	1.645		6					
Stdization Date (Local): 10 Sep 2024	7	✓	384	2032	8.4	1.915		7					
KIO ₃ N: 0.0122436	8	✓	385	910	8.5	1.984		8					394 OXY CS00 2024-020 5 m bot 17
Standard Titer: 0.5140571	9	✓	386	2025	8.8	2.284		9					
Blank Titer: 0.000052	10	✓	387A	950	9.0	2.700		10	387B	1457	8.9	2.709	rep. B sampled first by m. stall
THIO N: 0.23816	11	✓	388	3002	9.1	2.721		11					
Sample Flask Yes	12	✓	389	3209	9.2	3.691		12					
Water Seal? No	13	✓	390	3037	10.0	3.919		13					393B OXY CS00 2024-020 10 m bot 16
Reagent Change? MnCl ₂	14	✓	391	745	11.2	5.148		14					
(Please circle reagent that was changed prior to sampling and standardization)	15	✓	392	3100	14.5	5.941		15					
NOTE NEW BATCH IN LOG BOOK	16	✓	393A	1050	17.7	5.981		16	393B	153	17.7	5.968	
	17	✓	394	1054	17.9	5.852	bottom not sealed properly	17					393A OXY CS00 2024-020 10 m bot 16
	18							18					
	19							19					

Notes:

378	379	380	381	382	383	384	385	386	387A	387B	388	389	390	391	392
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00
2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020
1000 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
bot 1	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 14	bot 15

Bottle integrity: First test the cap (by opening the cap) and then the vent. Make sure the vent is not blocked.

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Cruise Number: 2024-020	1		311	3206	8.6		Run as 328 in event 109..	1					
Event: 106	2		312	3178	8.6		big bubble. FLASK BROKEN	2					
Station: LBP3	3		313	1085	8.7			3					
Event Date (Local): 09-09-24	4		314	3196	9.1			4					
Analysis Date (Local): ER	5		315	3171	9.3			5					
Analyst: > 10 Sep 2024	6		316A	3174	9.5		→	6	316B	3038	9.5		
Stdization Date (Local): 10 Sep 2024	7							7					
KIO ₃ N: 0.0122436	8		318	3182	9.6			8					
Standard Titer: 0.51410571	9		319	1440	9.7			9					
Blank Titer: 0.060052	10							10					
THIO N: 0.23816	11		321	3191	12.5			11					
Sample Flask Water Seal? Yes	12							12					
	13		323	3190	14.5		few small bubbles.	13					
Reagent Change? MnCl ₂	14						many zoops	14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NOTE NEW BATCH IN LOG BOOK	16							16					
	17							17					
	18							18					
Notes:	19												
Trees.xlsx	20		311	313	314	315	316A	316B	318	319		321	323
	21		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		OXY	OXY
	22		LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3		LBP3	LBP3
	23		2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020		2024-020	2024-020
	24		Bot-10 m	125 m	100 m	75 m	50 m	50 m	30 m	20 m		10 m	5 m
			bot 1	bot 3	bot 4	bot 5	bot 6	bot 6	bot 8	bot 9		bot 11	bot 13

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 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:	2024-020	1	✓✓	343	2098	6.7	0.212		1						
Event:	112	2	✓✓	344	3114	7.0	0.299		2						
Station:	LBP7	3	✓✓	345	904	7.4	0.669		3						
Event Date (Local):	10-09-24	4	✓✓	346	973	7.8	0.962		4						
Analysis Date (Local):	10 Sep 2024	5	✓✓	347	196	8.1	1.470		5						
Analyst:	ER	6	✓✓	348A	1346	8.3	1.777		6	348B	3005	8.3	1.776		
Stdization Date (Local):	10 Sep 2024	7	✓✓	349	118	8.4	2.037		7						
KIO ₃ N:	0.0122486	8	✓✓	350	169	8.6	2.192		8						
Standard Titer:	0.51406	9	✓✓	351	3050	8.7	2.470 ← 2.470		9						
Blank Titer:	0.000052	10	✓✓	352	3044	9.0	2.757		10						
THIO N:	0.23816	11	✓✓	353	941	9.1	3.036		11						
Sample Flask Water Seal?	Yes	12	✓✓	354	111	9.1	3.452		12						
	No	13	✓✓	355	953	9.5	3.791		13						
Reagent Change?	MnCl ₂	14	✓✓	356	976	10.1	4.579		14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓✓	357	547	12.3	5.82		15						
	H ₂ SO ₄	16	✓✓	358A	3040	13.2	6.224		16	358B	1416	13.2	6.229		
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17	✓✓	359	971	13.3	6.209		17						
	THIO	18							18						
		19							19						
Notes:	343	344	345	346	347	348B	349	350	351	352	353	354	355	356	357
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Chicken & Egg.xlsx	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7	LBP7
	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020
	1000 m	750 m	500 m	400 m	300 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	30 m	20 m	10 m
	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 15

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

359 OXY LBP7 2024-020 5 m bot 17

358B OXY LBP7 2024-020 10 m bot 16

358A OXY LBP7 2024-020 10 m bot 16

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Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2024-020	1	✓✓	326	994	6.5	0.304		1					
Event:	109	2	✓✓	327	970	6.9	0.283		2					
Station:	LBP5	3	✓✓	328	140	7.6	0.942		3					
Event Date (Local):	09-09-24	4	✓✓	329	131	8.0	1.281		4					
Analysis Date (Local):	10 Sep 2024	5	✓✓	330A	1330	8.1	1.506		5	330B	105	8.3	1.507	162809
Analyst:	ER	6	✓✓	331	908	8.2	1.601	might have done 2xOT... check	6	163218				
Stdization Date (Local):	10 Sep 2024	7	✓✓	332	932	8.4	1.700		7					16
KIO ₃ N:	0.0122436	8	✓✓	333	173	8.6	2.106		8					
Standard Titer:	0.5140571	9	✓✓	334	1485	8.7	2.493		9					
Blank Titer:	0.000052	10	✓✓	335	1424	8.9	2.682		10					
THIO N:	0.23816	11	✓✓	336	174	8.9	2.740		11					
Sample Flask Water Seal?	Yes	12	✓✓	337	148	9.1	3.084		12					
	No	13	✓✓	338	101	9.2	3.106		13					
Reagent Change?	MnCl ₂	14	✓✓	339	964	5.5	3.958		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓✓	340A	458	9.8	4.164		15	340B	3046	9.8	4.160	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16	✗✓	341	133	12.4	6.326		16					
	KIO ₃	17	✓✓	342	914	12.7	6.349		17					
	THIO	18							18					

Notes:	327	328	329	330A	330B	331	332	333	334	335	336	337	338	339	340A
	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
	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020
	750 m	500 m	400 m	300 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	2024-020	LBP5	2024-020
	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	50 m	2024-02	20 m
													30 m	30 m	bot 15

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test t

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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: 2024-020	1		283	2098	7.4	0.237		1					
Event: 085	2		284	3114	7.7	0.260		2					
Station: LG06	3		285	904	8.1	0.739		3					
Event Date (Local): 08-09-24	4		286	973	8.3	1.502	287 DWP from	4	286				
Analysis Date (Local): 08 Sep 2024	5	5	287A	196	8.6	1.499	→ bottle 5	4	287B	1346	9.6	1.044	Sample 286 from bottle 4.
Analyst: ER	6		288	3005	8.7	1.770		6					
Stdization Date (Local): 07 Sep 2024	7		289	118	8.9	1.835		7					
KIO ₃ N: 0.0122436	8		290	169	9.1	2.001	forgot to put dispensing tip in - abort	8					
Standard Titer: 0.5142756	9		291	3050	9.2	2.758		9					
Blank Titer: 0.000084	10		292	3044	9.3	3.170		10					
THIO N: 0.230053	11		293	941	9.5	3.261		11					
Sample Flask Water Seal? Yes	12		294	111	9.6	4.169		12					
No	13		295	953	9.9	5.414		13					
Reagent Change? MnCl ₂	14		296	976	10.6	5.867		14					
(Please circle reagent that was changed prior to sampling and standardization)	15		297	547	11.3	6.064		15					
NOTE NEW BATCH IN LOG BOOK	16		298A	3040	15.9	6.423	→	16	298B	1416	15.9	6.426	
	17							17					
	18		300	971	16.2			18					
	19							19					

Notes:

283 OXY LG06 2024-020 Bot-10 m bot 1

284 OXY LG06 2024-020 750 m bot 2

285 OXY LG06 2024-020 500 m bot 3

287B OXY LG06 2024-020 300 m bot 5

287A OXY LG06 2024-020 300 m bot 5

286 OXY LG06 2024-020 400 m bot 6

288 OXY LG06 2024-020 250 m bot 6

289 OXY LG06 2024-020 200 m bot 7

290 OXY LG06 2024-020 175 m bot 8

291 OXY LG06 2024-020 150 m bot 9

292 OXY LG06 2024-020 125 m bot 10

293 OXY LG06 2024-020 100 m bot 11

294 OXY LG06 2024-020 75 m bot 12

296 OXY LG06 2024-020 30 m bot 14

297 OXY LG06 2024-020 20 m bot 15

298B OXY LG06 2024-020 10 m bot 16

299 OXY LG06 2024-020 5 m bot 18

300 OXY LG06 2024-020 5 m bot 18

Bottle integrity: First test only

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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: 2024-020	1		273	569	9.1	1.625		1					
Event: 082	2		274	1425	9.5	3.231		2					
Station: LG04	3		275	557	9.6	3.642		3					
Event Date (Local): 08-09-24	4		276A	188	10.0	4.113		4	276B	2043	10.1	4.167	
Analysis Date (Local): 08 Sep 2024	5		277	142	10.0	5.697		5					
Analyst: ER	6		278	1489	11.1	5.157	smaller white bubble in flask	6					
Stdization Date (Local): 07 Sep 2024	7		279	902	16.0	6.149		7					
KIO ₃ N: 0.0122436	8							8					
Standard Titer: 0.5142256	9		281	159	16.1	6.201		9					
Blank Titer: 0.0001084	10							10					
THIO N: 0.238053	11		273	274	275	276A	276B	277	278	279		281	
Sample Flask Water Seal? Yes No	12		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		OXY	
	13		LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04		LG04	
Reagent Change? MnCl ₂	14		2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020		2024-020	
(Please circle reagent that was changed prior to sampling and standardization)	15		Bot-10 m	100 m	75 m	50 m	50 m	30 m	20 m	10 m		2024-020	
NOTE NEW BATCH IN LOG BOOK	16		bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7		5 m	
	17											bot 9	
	18												
Notes:	19												
	20												
Humming Bird.xlsx	21												
	22												
	23												
	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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Hummingbird

Last Updated: December 2019

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2024-020	1		253	178	9.4	1.705		1					
Event:	078	2		254A	981	9.5	1.668		2	254B	1491	9.4	1.668	B' taken before A
Station:	LG02	3		255A	921	9.9	2.024		3	255B	3116	9.9	2.024	
Event Date (Local):	08-09-24	4							4					
Analysis Date (Local):	08 Sep 2024	5		257	3126	10.5	3.449		5					
Analyst:	ER	6							6					
Stdization Date (Local):	07 Sep 2024	7		259	185	11.2	4.296		7					
KIO ₃ N:	0.0122436	8		260	3148	13.9	5.728		8					
Standard Titer:	0.5142756	9							9					
Blank Titer:	0.0001084	10		262	122	16.4	6.719		10					
THIO N:	0.238053	11							11					
Sample Flask Water Seal?	Yes	12		253	254A				12	260				
	No	13		OXY	OXY				13	OXY				
Reagent Change?	MnCl ₂	14		LG02	LG02				14	LG02				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		2024-020	2024-020				15	2024-020				
	H ₂ SO ₄	16		Bot-10 m	75 m				16	10 m				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17		bot 1	bot 2				17	bot 8				
	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.

Dissolved Oxygen Analysis Log Sheet

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Humming bird

Last Updated: December 2019

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2024-020	1	✓	266	1314	10.7	2.780		1					
Event: 077	2	✓	267	3034	11.1	3.209		2					
Station: LG01	3	✓	268	912	11.7	4.115	200ps in flask, curve OK	3					
Event Date (Local): 08-09-24	4	✓	269A	3074	14.7	6.117		4	269B	1429	14.7	6.119	
Analysis Date (Local): 08 Sep 2024	5							5					
Analyst: BR	6	✓	271	1487	16.0	6.956		6					
Stdization Date (Local): 07 Sep 2024	7							7					
KIO ₃ N: 0.0122436	8							8					
Standard Titer: 0.5142756	9							9					
Blank Titer: 0.0001084	10							10					
THIO N: 0.238053	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)	15							15					
NOTE NEW BATCH IN LOG BOOK	16							16					
H ₂ SO ₄	17												
KIO ₃	18												
THIO	19												
Notes:	20												
Humming Bird.xlsx	21												
	22												
	23												
	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.

Trees

Dissolved Oxygen Analysis Log Sheet

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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:	2024-020	1	✓✓	249	3198	11.2	3.220		1					
Event:	76	2	✓✓	250	1443	11.7	3.553		2					
Station:	LD01	3	✓✓	251	3204	12.8	5.713		3					
Event Date (Local):	08-09-24	4	✓✓	252A	1433	14.0	6.729	-redrawn after 3-13.9	4	252B	1413	14.0	6.731	
Analysis Date (Local):	08 Sep 2024	5		249	250		251		5					
Analyst:	ER	6		OXY	OXY		OXY	252A	6					
Stdization Date (Local):	07 Sep 2024	7		LD01	LD01		LD01	OXY	7					
KIO ₃ N:	0.0122436	8		2024-020	2024-020		2024-020	LD01	8					
Standard Titer:	0.5142756	9		Bot-10 m	20 m		10 m	2024-020	9					
Blank Titer:	0.0001684	10		bot 1	bot 2		bot 3	5 m	10					
THIO N:	0.238053	11						bot 4	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					
Trees.xlsx		21							21					
		22							22					
		23							23					
		24							24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

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Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2024-020	1	✓✓	243	3184	10.7	2.666		1					
Event: 75	2	✓✓	244	1428	10.8	2.703		2					
Station: LD02	3	✓✓	245A	3107	11.2	3.227		3	245B	3160	19.1	3.233	
Event Date (Local): 07-09-24	4	✓✓	246	167	12.7	5.820		4					
Analysis Date (Local): 08 Sep 2024	5	✓✓	247	3177	15.0	7.475		5					
Analyst: ER	6		243	244	245A	245B		6					
Stdization Date (Local): 07 Sep 2024	7		OXY	OXY	OXY	OXY		7					
KIO ₃ N: 0.0122436	8		LD02	LD02	LD02	LD02		8					
Standard Titer: 0.5142756	9		2024-020	2024-020	2024-020	2024-020		9					
Blank Titer: 0.0001084	10		Bot-10 m	30 m	20 m	20 m		10					
THIO N: 0.238053	11		bot 1	bot 2	bot 3	bot 3		11					
Sample Flask Water Seal? Yes	12							12					
	13							13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NOTE NEW BATCH IN LOG BOOK	16							16					
	17							17					
	18							18					
Notes:	19							19					
	20							20					
Trees.xlsx	21							21					
	22							22					
	23							23					
	24							24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

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Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2024-020	1	✓✓	238	3190	10.3	2.450		1					
Event: 72	2	✓✓	239	730	11.1	3.301		2					
Station: LD04	3	✓✓	240	3188	11.4	3.539		3					
Event Date (Local): 07-09-24	4	✓✓	241	3151	12.8	5.362	zoops in flask	4					
Analysis Date (Local): 08 Sep 2024	5	✓✓	242A	3189	16.1	7.800		5	242B	3157	15.9	7.792	
Analyst: ER	6							6					
Stdization Date (Local): 07 Sep 2024	7							7					
KIO ₃ N: 0.0122436	8							8					
Standard Titer: 0.5142756	9							9					
Blank Titer: 0.0001084	10							10					
THIO N: 0.238053	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)	14							14					
NOTE NEW BATCH IN LOG BOOK	15							15					
	16							16					
	17							17					
	18							18					
Notes:	19		238	239	240	241	242A	19					
	20		OXY	OXY	OXY	OXY	OXY	20					
	21		LD04	LD04	LD04	LD04	LD04	21					
Trees.xlsx	22		2024-020	2024-020	2024-020	2024-020	2024-020	22					
	23		Bot-10 m	30 m	20 m	10 m	5 m	23					
	24		bot 1	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.

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Moose

Last Updated: December 2019

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments			
Cruise Number: 2024-020	1		211	994	7.4	0.737	2x OT due to dancing bubble.	1								
Event: 67	2		212	970	7.4	0.251		2								
Station: LD08	3		213	140	7.4	0.711	OT x1, OT x2	3								
Event Date (Local): 07-09-24	4		214	131	8.2	0.943		4								
Analysis Date (Local): 08 Sep 2024	5		215	1330	8.5	1.477		5								
Analyst: ER	6		216	105	8.7	1.856		6								
Stdization Date (Local): 07 Sep 2024	7		217	908	9.0	1.966		7								
KIO ₃ N: 0.0122436	8		218	932	9.1	2.178		8								
Standard Titer: 0.5142756	9		219A	173	9.4	2.552	Yikes.	9	219B	1485	9.5	2.446				
Blank Titer: 0.0001084	10		220	1424	9.3	1.841		10								
THIO N: 0.238053	11		221	174	9.6	3.017		11								
Sample Flask Water Seal? ☒ Yes ☐ No	12		222	148	9.9	2.048	Zoops in flask, late EP.	12								
	13		223	101	10.3	2.951		13								
Reagent Change? MnCl ₂	14		224A	964	12.1	5.713	???	14	224B	458	12.2	6.192				
(Please circle reagent that was changed prior to sampling and standardization)	15		225	3046	13.4	6.923	going	15								
NOTE NEW BATCH IN LOG BOOK	16		226	133	16.9	6.363		16								
	17		227	914	17	6.363		17								
	18							18								
Notes:	19		211 OXY		213 OXY	214 OXY	215 OXY	216 OXY	217 OXY	218 OXY	219A OXY	219B OXY	220 OXY	221 OXY	222 OXY	223 OXY
	20		LD08		LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08
	21		2024-020		2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020
	22		Bot-10 m		500 m	400 m	300 m	250 m	200 m	175 m	150 m	150 m	125 m	100 m	75 m	50 m
	23		bot 1		bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 9	bot 10	bot 11	bot 12	bot 13
	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 integ...

explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

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Trees

Last Updated: December 2019

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2024-020	1		230	3206	8.7	0.877		1					
Event: 69	2		231	3178	8.9	1.372	late EP-ST, good.	2					
Station: LD06	3		232	1085	9.4	2.536	late EP-ST, good.	3					
Event Date (Local): 07-09-24	4		233	3196	10.4	2.447	late EP, ST, good.	4					
Analysis Date (Local): 08 Sep 2024	5		234	3171	11.6	3.971		5					
Analyst: CR	6		235A	3174	12.3	5.540		6	235B	3038	12.3	5.089	small bubbles in flask
Stdization Date (Local): 01 Oct 2024	7		236	3182	15.7	7.157	2000 in flask, EP OK	7					
KIO ₃ N: 0.01224376	8		237	1440	16.0	6.804		8					
Standard Titer: 0.5142756	9							9					
Blank Titer: 0.0001004	10							10					
THIO N: 0.238053	11							11					
Sample Flask Water Seal? ☒ Yes ☐ No	12							12					
	13							13					
Reagent Change? MnCl ₂	14		230	231	232			14					
(Please circle reagent that was changed prior to sampling and standardization)	15		OXY	OXY	OXY	233	234	235A	235B	236	237		
NOTE NEW BATCH IN LOG BOOK	16		LD06	LD06	LD06	OXY	OXY	OXY	OXY	OXY	OXY		
	17		2024-020	2024-020	2024-020	LD06	LD06	LD06	LD06	LD06	LD06		
	18		Bot-10 m	100 m	75 m	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020		
	19		bot 1	bot 2	bot 3	50 m	30 m	20 m	20 m	10 m	5 m		
	20					bot 4	bot 5	bot 6	bot 6	bot 7	bot 8		
Notes:	21												
	22												
	23												
	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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Chicken with Eggs

Last Updated: December 2019

Table with columns: 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. Includes handwritten data for samples 202-207A and 207B, and a 'Notes' section at the bottom.

Dissolved Oxygen Analysis Log Sheet

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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:	2024-020	1	✓	193	2043	15.3	10.6	196B not sealed correctly	1					
Event:	061	2	✓	194	142	13.9	10.9	2.485	2					
Station:	LC02	3	✓	195	1489	11.7	3.125		3					
Event Date (Local):	07-09-24	4	✓	196A	902	11.9	3.726		4	196B	952	12.2	3.869	redrawn due to bubbles
Analysis Date (Local):	07.09.24	5	✓	197	3104	12.5	1.559		5					
Analyst:	MG	6	✓	198	997	13.9	6.169		6		159	12.1	2.413	loss for flow
Stdization Date (Local):	07.09.24	7	X	199	3099	15.3	7.101	top not sealed correctly	7					
KIO ₃ N:	0.0122436	8							8					
Standard Titer:	0.5142736	9							9					
Blank Titer:	0.0001084	10							10					
THIO N:	0.238053	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					

193	194	195	196A	196B	197	198	199
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LC02	LC02	LC02	LC02	LC02	LC02	LC02	LC02
2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020
Bot-10 m	75 m	50 m	30 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

Bottle integrity: First tes

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

Dissolved Oxygen Analysis Log Sheet
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Hummingbird

Last Updated: December 2019

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2024-020	1		175	1491	9.7	1.674		1					
Event: 059	2	/	176	921	9.7	1.746		2					
Station: LC04	3							3					
Event Date (Local): 07-09-24	4		178	3116	9.7	1.901		4					
Analysis Date (Local): 07.09.24	5	/	179	3126	10.0	2.057		5					
Analyst: MG	6							6					
Stdization Date (Local): 07.09.24	7	x	181	185	10.4	2.485		7					
KIO ₃ N: 0.0122436	8	-	182	3148	10.9	3.192		8					
Standard Titer: 0.5142756	9							9					
Blank Titer: 0.0001084	10	/	184A	122	11.3	3.436		10	184B	915	11.3	3.428	
THIO N: 0.238053	11	/	185	569	11.7	3.779		11					
Sample Flask Water Seal? Yes	12							12					
	13	-	187	1425	14.3	7.819		13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NOTE NEW BATCH IN LOG BOOK	16	/	190	557	14.5	7.948		16					
	17							17					
	18							18					
Notes:	19							19					
	20							20					
	21							21					

Humming Bird.xlsx

175	176	178	179	181	182	184A	184B	185	187	190
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04
2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020
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 16

check and explain this in the comments column.

NEW STD

Dissolved Oxygen Analysis Log Sheet

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Hummingbird not Chicken ☺

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Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2024-020	1	/	168	1314	10.1	2.168		1					
Event: 054	2	/	169	3034	10.1	2.282		2					
Station: LC06	3	/	170	912	10.4	2.1682		3					
Event Date (Local): 07-09-24	4	/	171	3074	11.2	3.552		4					
Analysis Date (Local): 07.09.24	5	/	172	1429	11.6	3.844		5					
Analyst: HLG	6	/	173A	1487	12.7	5.350		6	173B	3133	12.8	5.429	
Stdization Date (Local): 07.09.24	7	/	174	178	13.6	6.463		7					
KIO ₃ N: 0.0122436	8							8					
Standard Titer: 0.5142756	9							9					
Blank Titer: 6.0001084	10							10					
THIO N: 0.238053	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)	15							15					
NOTE NEW BATCH IN LOG BOOK	16							16					
	17							17					
	18							18					
	19							19					
	20							20					
	21							21					
	22							22					
								23					
								24					

Notes:



Humming Bird.xlsx

168

OXY

LC06

2024-020

Bot-10 m

bot 1

169

OXY

LC06

2024-020

75 m

170

OXY

LC06

2024-020

50 m

bot 3

171

OXY

LC06

2024-020

30 m

bot 4

172

OXY

LC06

2024-020

20 m

bot 5

173A

OXY

LC06

2024-020

10 m

bot 6

173B

OXY

LC06

2024-020

10 m

bot 6

174

OXY

LC06

2024-020

5 m

bot 7

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

Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2024-020	1		129	994	8.9	0.647		1					
Event:	048	2		130A	970	9.0	0.892		2	130B	140	8.9	0.890	LATE END POINTS OVERTITRATED
Station:	LC09	3		131	131	8.9	1.106		3					
Event Date (Local):	06-09-24	4		132	1330	9.1	1.583		4					
Analysis Date (Local):	07-09-24	5							5					
Analyst:	MG	6		134	105	9.1	1.844		6					
Stdization Date (Local):	06 Sep 2024	7		135	908	9.3	2.337		7					
KIO ₃ N:	0.0122436	8		136	932	9.5	2.486		8					
Standard Titer:	0.513910	9		137	173	9.6	2.319		9					
Blank Titer:	0.00019	10							10					
THIO N:	0.23832	11		139A	1485	9.7	2.657		11	139B	1424	9.8	2.662	
Sample Flask Water Seal?	Yes	12		140	174	9.9	3.079		12					
	No	13		141	148	10.0	3.711		13					
Reagent Change?	MnCl ₂	14		142	101	10.5	4.154		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
	H ₂ SO ₄	16		144	964	11.1	5.766		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17		145	458	12.5	6.307		17					
	THIO	18							18					
Notes:		19	X	147	3046	16.5	6.712	open @ spigot	19					
		20							20					
		21	✓	149	133	16.6	6.700		21					

129	130A	130B	131	132	134	135	136	137	139A	139B	140	141	142	144	145	147
OXY	OXY	OXY	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	LC09	LC09	LC09
2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020
Bot-10 m	500 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	10 m
bot 1	bot 2	bot 2	bot 3	bot 4	bot 6	bot 7	bot 8	bot 9	bot 11	bot 11	bot 12	bot 13	bot 14	bot 16	bot 17	bot 19

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2024-020	1		152	3206			} NOT TAKEN?	1					
Event: 051	2		153	3178				2					
Station: LC08	3		154	1085				3					
Event Date (Local): 06-09-24	4							4					
Analysis Date (Local): 07.06.24	5		156	3196				5					
Analyst: MG	6		157	3171	9.4	1.386	NaI NaOH-ran out, bubbly	6					
Stdization Date (Local): 06-09-24	7		158	3174	9.8	1.930		7					
KIO ₃ N: 0.0122436	8		159	3038	10.3	2.481		8					
Standard Titer: 0.51396	9							9					
Blank Titer: 0.00019	10		161A	3182	11.3	3.637		10	161B	1440	11.4	3.627	
THIO N: 0.23832	11							11					
Sample Flask Water Seal? Yes	12		163	3191	13.1	5.116		12					
Reagent Change? MnCl ₂	13		164	3190	14.3	5.846		13					
(Please circle reagent that was changed prior to sampling and standardization)	14							14					
NaI/NaOH	15							15					
H ₂ SO ₄	16		167	730	14.3	5.851		16					
NOTE NEW BATCH IN LOG BOOK	17							17					
KIO ₃	18							18					
THIO	19							19					
Notes:	20							20					
Trees.xlsx	21							21					
	22							22					

152	153	154	156
OXY	OXY	OXY	OXY
LC08	LC08	LC08	LC08
2024-020	2024-020	2024-020	2024-020
Bot-10 m	175 m	150 m	125 m
bot 1	bot 2	bot 3	bot 5

opening the lower spigo

157	158	159	161A	161B	164	167
OXY	OXY	OXY	OXY	OXY	OXY	OXY
LC08	LC08	LC08	LC08	LC08	LC08	LC08
2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020
100 m	75 m	50 m	30 m	30 m	10 m	5 m
bot 6	bot 7	bot 8	bot 10	bot 10	bot 13	bot 16

nd explain this in the comments column.

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September 2019

[illegible]

Dissolved Oxygen Analysis Log Sheet

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Snail

Last Updated: December 2019

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2024-020	1	✓	86	130	7.5	0.370		1					105 OXY LB14 2024-020 5 m bot 20
Event: 036	2	✓	87	923	7.6	0.272		2					
Station: LB14	3	✓	88	3032	8.7	0.282		3					
Event Date (Local): 06-09-24	4	✓	89	913	8.4	0.743		4					
Analysis Date (Local): 06 Sep 2024	5	✓	90	126	8.6	1.177		5					103 OXY LB14 2024-020 10 m bot 18
Analyst: ER	6							6					Dripping from
Stdization Date (Local): 06 Sep 2024	7	✓	92A	1402	8.8	1.549		7	92B	3096	9.0	1.548	
KIO ₃ N: 0.0122436	8	✓	93	3109	8.9	1.374		8					
Standard Titer: 0.51390	9	✓	94	151	9.1	1.816		9					102B OXY LB14 2024-020 20 m bot 17
Blank Titer: 0.00019	10	✓	95	154	9.2	2.240		10					
THIO N: 0.23832	11	✓	96	129	9.4	2.473		11					
Sample Flask Water Seal? ☒ Yes	12	✓	97	575	9.6	2.706		12					
No	13	✓	98	171	9.8	2.851		13					102A OXY LB14 2024-020 20 m bot 17
Reagent Change? MnCl ₂	14	✓	99	903	9.7	2.461		14					
(Please circle reagent that was changed prior to sampling and standardization)	15	✓	100	20	10.5	2.763		15					
NOTE NEW BATCH IN LOG BOOK	16	✓	101	1192	11.6	3.696		16					
H ₂ SO ₄	17	✓	102A	114	13.1	4.539		17	102B	959	13.1	4.535	101 OXY LB14 2024-020 30 m bot 16
KIO ₃	18	✓	103	109	16.7			18					
THIO	19							19					
Notes:	20	✓	105	3033	17.5			20					100 OXY LB14 2024-020 50 m bot 15
	21							21					

Snail.xlsx

86 OXY LB14 2024-020 Bot-10 m bot 1

87 OXY LB14 2024-020 1000 m bot 2

88 OXY LB14 2024-020 750 m bot 3

89 OXY LB14 2024-020 500 m bot 4

90 OXY LB14 2024-020 400 m bot 5

92A OXY LB14 2024-020 300 m bot 7

92B OXY LB14 2024-020 300 m bot 7

93 OXY LB14 2024-020 250 m bot 8

94 OXY LB14 2024-020 200 m bot 9

95 OXY LB14 2024-020 175 m bot 10

96 OXY LB14 2024-020 150 m bot 11

97 OXY LB14 2024-020 125 m bot 12

98 OXY LB14 2024-020 100 m bot 13

99 OXY LB14 2024-020 75 m bot 14

100 OXY LB14 2024-020 50 m bot 15

Dissolved Oxygen Analysis Log Sheet

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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: 2024-020	1	✓	70	3206	8.4		accidentally ran in event	1					036 with 10 86 11 whoops
Event: 034	2	✓	71	3178	8.7	1.258		2					
Station: LB12	3	✓	72	1085	8.8	1.383		3					
Event Date (Local): 06-09-24	4	✓	73	3196	8.9	1.527		4					
Analysis Date (Local): 06 Sep 2024	5	✓	74A	3171	9.1	1.849		5	74B	3174	9.4		
Analyst: ER	6	✓	75	3038	9.1			6					
Stdization Date (Local): 06 Sep 2024	7	✓	76	3182	9.3			7					slow vent leak
KIO ₃ N: 0.0122436	8	✓	77	1440	9.3			8					
Standard Titer: 0.51390	9	✓	78	3191	9.6			9					
Blank Titer: 0.00019	10	✓	79	3190	9.7			10					
THIO N: 0.23832	11	✓	80	730	9.9	3.833		11					
Sample Flask Water Seal? Yes	12	✓	81	3188	11.5	3.807		12					
No	13	✓	82	3151	13.5	5.057		13					
Reagent Change? MnCl ₂	14	✓	83A	3189	16.5			14	83B	3157	16.5		B drawn 1st !!
(Please circle reagent that was changed prior to sampling and standardization)	15	✓	84	3181	17.0			15					
NOTE NEW BATCH IN LOG BOOK	16							16					
H ₂ SO ₄	17							17					
KIO ₃	18							18					
THIO													

Notes: 70 OXY LB12 2024-020 Bot-10 m bot 1

71 OXY LB12 2024-020 400 m bot 2

72 OXY LB12 2024-020 300 m bot 3

73 OXY LB12 2024-020 250 m bot 4

74A OXY LB12 2024-020 200 m bot 5

74B OXY LB12 2024-020 200 m bot 5

75 OXY LB12 2024-020 175 m bot 6

76 OXY LB12 2024-020 150 m bot 7

77 OXY LB12 2024-020 125 m bot 8

78 OXY LB12 2024-020 100 m bot 9

79 OXY LB12 2024-020 75 m bot 10

80 OXY LB12 2024-020 50 m bot 11

81 OXY LB12 2024-020 30 m bot 12

82 OXY LB12 2024-020 20 m bot 13

83A OXY LB12 2024-020 10 m bot 14

83B OXY LB12 2024-020 10 m bot 14

84 OXY LB12 2024-020 5 m 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.

Dissolved Oxygen Analysis Log Sheet

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* Temp probe not working properly - determined it was broken

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments		
Cruise Number: 2024-020	1	✓	59	3002	15.9	1.319		1							
Event: 032	2	✓	60	3209	15.8	1.405		2							
Station: LB11	3	✓	61	3037	15.7	1.700		3							
Event Date (Local): 05-09-24	4	✓	62	745	15.6	2.361		4							
Analysis Date (Local): 06 Sep 2024	5	✓	63	3100	15.6	2.823		5							
Analyst: ER	6	✓	64	1050	16.1	3.161		6							
Stdization Date (Local): 06 Sep 2024	7	X	65A	153	15.6	2.970		7	65B	1054	15.6	2.900	not sealed correctly		
KIO ₃ N: 0.0122436	8	✓	66	3150	15.8	3.620		8							
Standard Titer: 0.51394	9	✓	67	3083	15.6	4.917		9							
Blank Titer: 0.0001883	10	✓ X	68	945	15.8	6.511		10					slow drip from S		
THIO N: 0.23836	11	✓	69	957	16.9	6.806		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)	15		59		60	61	62	63	64	65A	65B	66	67	68	69
NOTE NEW BATCH IN LOG BOOK	16		OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	17		LB11		LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11
	18		2024-020		2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020	2024-020
	19		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
	20		bot 1		bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	bot 11
Notes: thermometer dead draw temps wrong will recalc with CTD temp	21														
Tall Ship.xlsx	22														
	23														
	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

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: 2024-020	1	/	47	176	14.8	0.941		1					
Event: 030	2	/	48	189	14.8	0.902		2					
Station: LB09	3	/	49A	3075	14.5	0.921		3	49B	647	14.6	0.918	
Event Date (Local): 05-09-24	4	/	50	439	14.8	1.350		4					
Analysis Date (Local): 06 Sep 2024	5	/	51	22	14.6	1.954		5					
Analyst: ER	6	/	52	2032	14.6	3.133		6					
Stdization Date (Local): 06 Sep 2024	7	/	53	910	14.8	3.613		7					
KIO ₃ N: 0.0122436	8	/	54	2025	15.2	4.841		8					
Standard Titer: 0.51390	9							9					
Blank Titer: 0.0001883	10	/	56	950	15.0	6.553		10					
THIO N: 0.28 0.23832	11												
Sample Flask Water Seal? ☒ Yes ☐ No	12		47				49A		51				
	13		OXY				OXY		OXY				
	14		LB09				LB09		LB09				
Reagent Change? MnCl ₂	15		2024-020				2024-020		2024-020				
(Please circle reagent that was changed prior to sampling and standardization)	16		Bot-10 m				100 m		50 m				
NOTE NEW BATCH IN LOG BOOK	17		bot 1				bot 3		bot 5				
	18								bot 6				
	19												
	20												
	21												
	22												
	23												
	24												

Notes:

Problem w/ draw temp thermometer - will need to recalculate.

47

OXY

LB09

2024-020

Bot-10 m

bot 1

48

OXY

LB09

2024-020

125 m

bot 2

49A

OXY

LB09

2024-020

100 m

bot 3

49B

OXY

LB09

2024-020

100 m

bot 3

50

OXY

LB09

2024-020

75 m

bot 4

51

OXY

LB09

2024-020

50 m

bot 5

52

OXY

LB09

2024-020

30 m

bot 6

53

OXY

LB09

2024-020

20 m

bot 7

54

OXY

LB09

2024-020

10 m

bot 8

56

OXY

LB09

2024-020

5 m

bot 10

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

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Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2024-020	1		31	3044	7.1	0.635		1					
Event: 028	2		32	941	7.6	0.653		2					
Station: LB08	3		33A	111	7.5	0.670		3	33B	953	7.6	0.680	
Event Date (Local): 05-09-24	4							4					
Analysis Date (Local): 06 Sep 2024	5		35	976	7.8	0.890	OT due to vgy curve. Still not great.	5	→ EP	reasonable			but curve shape still bad after OT.
Analyst: DR	6		36	547	8	1.273		6					
Stdization Date (Local): 06 Sep 2024	7	X	37	3040	8.7	1.910	top of niske not sitting properly	7					
KIO ₃ N: 0.0122436	8							8					
Standard Titer: 0.5139019	9		39	1416	9.5	2.813	bubbles in flask (small)	9					
Blank Titer: 0.00019	10		40	971	10.1	3.427		10					
THIO N: 0.23032	11					5.211		11					
Sample Flask Water Seal? Yes No	12		42	658	12.1	7.427	late EP, OT - good OT.	12					
	13							13					
Reagent Change? MnCl ₂	14		44	168	12.5	5.338		14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NOTE NEW BATCH IN LOG BOOK	16							16					
	17							17					
	18							18					
	19							19					
Notes:	20							20					
Chicken & Egg.xlsx	21							21					
	22							22					
	23							23					
	24							24					
	25							25					
	26							26					
	27							27					
	28							28					
	29							29					
	30							30					
	31							31					
	32							32					
	33							33					
	34							34					
	35							35					
	36							36					
	37							37					
	38							38					
	39							39					
	40							40					
	41							41					
	42							42					
	43							43					
	44							44					

Bottle integrity: First test the top vent (V) by opening the lo... by c... the vent. Mark 'x' in the appropriate column if either fails the int... and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2024-020	1		22	2098	8.1	0.971		1					
Event: 010	2	/	23	3114	8.0	1.003		2					
Station: LB06	3	/	24	904	8.1	1.140	LATE ugly EP- O2 check 110351	3					
Event Date (Local): 05-09-24	4	/	25	973	8.7	1.971		4					
Analysis Date (Local): 05 Sep 2024	5	/	26A	196	9.9	3.025	NOISY - DISCARD	5	26B	1346	10.0	3.013	PAN 15
Analyst: ER	6	/	27	3005	10.6	3.476		6					
Stdization Date (Local): 04 Sep 2024	7	/	28	118	12.0	5.169		7					
KIO ₃ N: 0.0122436	8	/	29	169	13.9	6.270		8					
Standard Titer: 0.51360	9							9					
Blank Titer: 0.00031	10							10					
THIO N: 0.23846	11							11					
Sample Flask Water Seal? Yes No	12							12					
	13							13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NOTE NEW BATCH IN LOG BOOK	16							16					
	17							17					
	18							18					
Notes:	19							19					
	20							20					
Chicken & Egg.xlsx	21							21					
	22							22					
	23							23					
	24							24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

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Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2024-020	1	✓	14	3126	8.0	1.279		1					
Event: 005	2	✓	15	185	8.6	2.567		2					
Station: LB04	3	✓	16	3148	9.0	2.788		3					
Event Date (Local): 05-09-24	4	✓	17	122	9.9	3.560		4					
Analysis Date (Local): 05 Sep 2024	5	✓	18A	915	10.4	3.766		5	18B	569	10.4	3.767	
Analyst: ER	6	✓	19	1425	12.7	5.684		6					
Stdization Date (Local): 04 Sep 2024	7	✓	20	557	13.1	5.721		7					
KIO ₃ N: 0.0122436	8							8					
Standard Titer: 0.51360	9							9					
Blank Titer: 0.00031	10		14		15	16	17	18A	18B	19			
THIO N: 0.23846	11		OXY		OXY	OXY	OXY	OXY	OXY	OXY			
Sample Flask Water Seal? ☒ Yes	12		LB04		LB04	LB04	LB04	LB04	LB04	LB04			
	13		2024-020		2024-020	2024-020	2024-020	2024-020	2024-020	2024-020			
Reagent Change? MnCl ₂	14		Bot-10 m		75 m	50 m	30 m	20 m	20 m	10 m			
(Please circle reagent that was changed prior to sampling and standardization)	15		bot 1		bot 2	bot 3	bot 4	bot 5	bot 5	bot 6			
NOTE NEW BATCH IN LOG BOOK	16												
	17												
	18												
Notes:	19												
	20												
Humming Bird.xlsx	21												
	22												
	23												
	24												

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

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Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number: 2024-020							1	/	6	3133	10.2	3.164		1						
Event: 003							2							2						
Station: LB02							3	/	8	178	10.8	3.881		3						
Event Date (Local): 05-09-24							4	/	9	981	11.6	4.689		4						
Analysis Date (Local): 05 Sep 2024							5							5						
Analyst: ERL							6	/	11A	1491	12.0	4.951	→	6	11B	921	12.0	4.952	Redrawn due to bubbles	
Stdization Date (Local): 04 Sep 2024							7							7		3116	12.0		Deposited NaOH	
KIO ₃ N: 0.0122436							8							8						
Standard Titer: 0.51360							9							9						
Blank Titer: 0.00031							10							10						
THIO N: 0.23846							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)							15							15						
NaI/NaOH							16							16						
H ₂ SO ₄							17							17						
NOTE NEW BATCH IN LOG BOOK							18							18						
KIO ₃							19							19						
THIO							20							20						
Notes:							21							21						
							22							22						
Humming Bird.xlsx							23							23						
							24							24						

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

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Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2024-020	1	/	1	1314	10.4	3.524		1					
Event: 2	2	/	2	3034	10.3	3.544	curve noisy - zoop in flask - EPOK	2					
Station: LB01	3	/	3A	912	10.7	3.784	→	3	3B	3074	10.7	3.750	
Event Date (Local): 0509-24	4	/	4	1429	11.3	4.383	zoop in flask. EP, curve OK	4					
Analysis Date (Local): 05 Sep 2024	5		1	2				5					
Analyst: ER	6		OXY	OXY	3A	3B	4	6					
Stdization Date (Local): 04 Sep 2024	7		LB01	LB01	OXY	OXY	OXY	7					
KIO ₃ N: 0.0122436	8		2024-020	2024-020	LB01	LB01	LB01	8					
Standard Titer: 0.51360	9		Bot-10 m	20 m	2024-020	2024-020	2024-020	9					
Blank Titer: 0.00031	10		bot 1	bot 2	10 m	10 m	5 m	10					
THIO N: 0.23840	11				bot 3	bot 3	bot 4	11					
Sample Flask Water Seal? Yes No	12							12					
	13							13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NOTE NEW BATCH IN LOG BOOK	16							16					
	17							17					
	18							18					
Notes:	19							19					
	20							20					
Humming Bird.xlsx	21							21					
	22							22					
	23							23					
	24							24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.