

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: 2024-008	1		1	176	10.9	2.340		1					
Event: 3	2		2	189	10.7	2.387		2					
Station: Haro59	3		3A	3075	10.8	2.433		3	3B	647	10.3	2.428	Good
Event Date (Local): 14-09-24	4		4	439	10.5	2.721		4					
Analysis Date (Local): 16.09.24	5		5	22	11.7	3.313		5					
Analyst: MG	6		6	2032	12.2	3.774		6					
Stdization Date (Local): 16.09.24	7		7	910	12.7	4.134		7					
KIO ₃ N: 0.0122436	8		8	2025	13.0	4.358		8					
Standard Titer: 0.5061912	9		9	950	13.3	4.556	OVERTITRATE LATE IN CURVE	9					
Blank Titer: 6.0010951	10		10A	1457	13.4	4.597		10	10B	3002	13.5	4.601	Good
THIO N: 0.242309	11		11	3209	13.5	4.716		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:	1	2	3A	3B	4	5	6	7	8	9	10A	10B	11
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Tall Ship.xlsx	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59
	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008
	Bot-5 m	200 m	150 m	150 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m	5 m	0 m
	bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10	bot 11

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

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Cruise Number:	2024-008						1	X ✓	16	3037	9.1	1.081			1					
Event:	9						2	✓✓	17	745	10.1	2.472			2					
Station:	P1						3	✓✓	18A	3100	14.5	6.041			3	18B	1050	14.5	6.044	Good
Event Date (Local):	15-09-24						4								4					
Analysis Date (Local):	16-09-24						5								5					
Analyst:	MG						6								6					
Stdization Date (Local):	16-09-24						7								7					
KIO ₃ N:	0.0122436						8								8					
Standard Titer:	0.5061912						9								9					
Blank Titer:	0.0010951						10								10					
THIO N:	0.242309						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					
Tall Ship.xlsx							20								20					
							21								21					
							22								22					
							23								23					
							24								24					

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

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Cruise and Analysis Information							OXY-1 Comments		OXY-2 Comments				
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)		Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)		
Cruise Number:	2024-008	1	✓✓	20	1054	8.8	0	1					
Event:	11	2	✓✓	21	3150	8.9	0.956	2					
Station:	P2	3						3					
Event Date (Local):	15-09-24	4	✓✓	23A	3083	9.3	1.742	4	23B	945	9.3	1.738	
Analysis Date (Local):	16-09-24	5						5					
Analyst:	MC	6	✓✓	25	957	9.7	2.439	6					
Stdization Date (Local):	16-09-24	7						7					
KIO ₃ N:	0.0122436	8						8					
Standard Titer:	0.5061962	9						9					
Blank Titer:	0.0010951	10	✓✓	29	1477	10.6	2.895	10					
THIO N:	0.242309	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	✓✓	33A	3120	12.9	5.443	14	33B	2049	13.0	5.449	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15						15					
	KIO ₃	16	✓✓	35	639	13.1	6.971	16					
	THIO	17						17					
		18						18					
Notes:	20	21	23A	23B	25	29	33A	33B	35				
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY				
Tall Ship.xlsx	P2	P2	P2	P2	P2	P2	P2	P2	P2				
	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008				
	Bot-10 m	100 m	75 m	75 m	50 m	25 m	10 m	10 m	5 m				
	bot 1	bot 2	bot 4	bot 4	bot 6	bot 10	bot 14	bot 14	bot 16				

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: 2024-008	1		67	3206	6.0	0.509		1					
Event: 17	2		68	1085	5.9	0.460		2					
Station: P4	3		69	3196	6.3	0.225		3					
Event Date (Local): 15-09-24	4		70	3171	6.7	0.210		4					
Analysis Date (Local): 17.09.24	5		71	3174	7.1	0.427		5					
Analyst: MG	6		72A	3038	7.6	1.053	→	6	72B	3182	7.7	1.045	MEH!
Stdization Date (Local): 17.09.24	7		73	1440	8.1	1.649		7					
KIO ₃ N: 0.0125237	8		74	3191	8.3	2.037	*small air bubble when NaI/NaOH	8					
Standard Titer: 0.515951	9		75	3190	8.7	2.394		9					
Blank Titer: 0.0008632	10		76	730	8.9	2.661		10					
THIO N: 0.243057	11		77A	3188	9.1	2.981	→	11	77B	3151	9.2	2.969	FORGOT TIP, STOP THIO, RESET, TERRIBLE
Sample Flask Water Seal? ☒ Yes ☐ No	12		78	3189	9.3	3.303		12					
	13		79	3157	9.7	3.381		13					
Reagent Change? MnCl ₂	14		80	3181	9.9	4.491		14					
(Please circle reagent that was changed prior to sampling and standardization)	15		81	3184	10.3	5.863		15					
NOTE NEW BATCH IN LOG BOOK	16		82A	1428	12.9	6.270	→	16	82B	3107	13.0	6.277	BETTER?
	17		83	3160	15.3	6.359		17					
	18		84	167	15.4	6.362		18					
Notes:	19							19					
	20							20					
Trees.xlsx	21							21					

67	68	69	70	71	72A	72B	73	74	75	76	77A	77B	78	79	80	81	82A
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4
2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008
Bot-10 m	1250 m	1000 m	800 m	600 m	400 m	400 m	300 m	250 m	200 m	175 m	150 m	150 m	125 m	100 m	75 m	50 m	25 m
bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 11	bot 12	bot 13	bot 14	bot 15	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 Comr
Cruise Number:	2024-008	1		110A	130	6.4	1.332		1	110B	923	6.4	1.335	awesome
Event:	26	2		111	3032	6.5	0.665		2					
Station:	P8	3		112	913	6.6	0.363		3					
Event Date (Local):	16-09-24	4		113	126	6.9	0.241		4					
Analysis Date (Local):	17-09-24	5		114	1402	7.5	0.222		5					
Analyst:	MG	6		115A	3096	7.7	0.370		6	115B	3109	8.0	0.369	temp... excellent
Stdization Date (Local):	17-09-24	7		116	151	8.3	1.018		7					
KIO ₃ N:	0.0125 237	8		117	154	8.6	1.555	FORGOT TIP, STOP TITID, RESET	8					
Standard Titer:	0.515951	9		118	129	9.1	1.818		9					
Blank Titer:	0.0008632	10		119	575	9.4	2.163		10					
THIO N:	0.243057	11		120	171	9.9	2.804		11					
Sample Flask Water Seal?	Yes	12		121A	903	10.1	3.013		12	121B	20	10.3	3.047	GRADIENT IN BOT? TERRIBLE?
	No	13		122	1192	10.4	4.928		13					
Reagent Change?	MnCl ₂	14		123	114	10.9	5.910		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		124	959	11.9	6.178		15					
	H ₂ SO ₄	16		125	109	12.5	6.458		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17		126	3033	14.8	7.226		17					
	THIO	18		127A	152	18.1	5.753		18	127B	3080	18.2	5.755	GREAT
		19		128	1059	18.2	5.757		19					
		20		129	900	18.2	5.760		20					
		21		130	3041	18.3	5.762		21					
		22		131	2035	18.2	5.758		22					
		23		132	108	18.4	5.752							

110A	110B	111	112	113	114	115A	115B	116	117	118	119	120	121A	121B	122	123	124
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8
2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008
2000 m	2000 m	1500 m	1250 m	1000 m	800 m	800 m	600 m	400 m	300 m	250 m	200 m	150 m	125 m	125 m	100 m	75 m	60 m
bot 1	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 15	bot 16	bot 17

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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 Comm
Cruise Number:	2024-008		227	1314	5.7	3.167		1					
Event:	53		228A	3034	4.8	3.131 →		2	228B	912	4.9	3.150	BAD SUSPECT BUBBLE IN NaOH
Station:	P26							3					
Event Date (Local):	19-09-24		230	3074	4.9	2.908	OVERTITRATE - LATE IN CURVE	4					
Analysis Date (Local):	20-09-24							5					
Analyst:	MG		232	1429	4.9	2.467		6					
Stdization Date (Local):	20-09-24		233A	1487	5.0	1.975 →	BLACK SPECK - PAINT	7	233B	3133	5.3	0	SPLIT ON CANISTER IN BIG ROLL
KIO ₃ N:	0.0125233		234	178	5.4	1.217		8					
Standard Titer:	0.5146083		235	981	5.7	0.527		9					
Blank Titer:	0.0008995		236	1491	5.9	0.396		10					
THIO N:	0.24398	X	237A	921	6.3	0.369	Bottom cap open	11	237B	3116	6.5	0.371	Good
Sample Flask Water Seal?	Yes No		238	3126	6.5	0.417		12					
Reagent Change?	MnCl ₂	X	239	185	6.8	0.541	Spigot in	13					
	NaI/NaOH		240	3148	7.3	1.039		14					
	H ₂ SO ₄		241	122	10.9	1.547	7.9 OVERTITRATE	15					
	KIO ₃		242	915	8.1	1.741		16					
	THIO		243	569	8.3	2.067		17					
			244	1425	8.4	3.005		18					
			245A	557	8.7	5.838 →		19	245B	188	8.8	5.834	Small bubble from NaOH
			246	2043	A.I.	G.L.H.	SMALL bubble FROM NaOH	20					
			247	142	10.3	6.740		21					
			248	1489	14.9	6.045		22					
			249	902	15.1	6.053		23					
			250	159	15.1	6.070		24					

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Cruise Number:	2024-008						1		358	2098				1					
Event:	71						2		359	3114				2					
Station:	P16						3		360	904				3					
Event Date (Local):	22-09-24						4		361	973				4					
Analysis Date (Local):	22-09-24						5		362	196	6.0	0.843		5					
Analyst:	MG						6		363A	1346	5.9	0.394		6	363B	3005	5.9	0.402	MEH
Stdization Date (Local):	21-09-24						7		364	118	5.9	0.279	NO WATER	7					
KIO ₃ N:	0.0125237						8		365	169	6.2	0.254		8					
Standard Titer:	0.5146083						9		366	3050	6.5	0.319		9					
Blank Titer:	0.0008995						10		367	3044	6.8	0.525		10					
THIO N:	0.004398						11		368	941	7.3	1.328	leaky Nisk in MISSING PIECE	11					IN BOTTOM VENT: TOOK OUT BOTTLE
Sample Flask Water Seal?	Yes No						12		369	111	7.7	2.156	leaky	12					
Reagent Change?	MnCl ₂						13		370A	953				13	370B	976			
	gent prior						14		371	547	8.4	3.681		14					
	NaI/NaOH						15		372	3040	8.7	4.086		15					
	H ₂ SO ₄						16		373	1416	8.9	4.568		16					
	KIO ₃						17		374	971	9.3	5.298		17					
	THIO						18		375A	658	10.0	6.162		18	375B	168	10.2	6.175	NOT GOOD
							19		376	943	10.9	6.409		19					
							20		377	145	12.5	6.571		20					
							21		378	986	17.9	5.668		21					
							22		379A	1493	18.0	5.650		22	379B	3090	18.1	5.667	NOT GOOD

2024-008 2000 m bot 5
2024-008 1500 m bot 6
2024-008 1500 m bot 6
2024-008 1250 m bot 7

P16 OXY 362
P16 OXY 363A
P16 OXY 363B
P16 OXY 364

gent prior
H₂SO₄
KIO₃
THIO

Chicken & Egg.xlsx

365 OXY P16 2024-008 1000 m bot 8
366 OXY P16 2024-008 800 m bot 9
367 OXY P16 2024-008 600 m bot 10
368 AXO 916 800-4202
369 696 11-109
370 91D 800-4202
371 OXY P16 2024-008 200 m bot 13
372 OXY P16 2024-008 175 m bot 14
373 OXY P16 2024-008 150 m bot 15
374 OXY P16 2024-008 125 m
375A OXY P16 2024-008 100 m
375B OXY P16 2024-008 100 m
376 OXY P16 2024-008 75 m bot 19
377 OXY P16 2024-008 50 m
378 OXY P16 2024-008 25 m
379A OXY P16 2024-008 10 m bot 22

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Cruise Number:	2024-008						1		439	3206	8.4	1.847			1					
Event:	107						2		440	1085	8.3	1.858			2					
Station:	Ri1						3		441A	3196	8.3	1.848	NO WATER		3	441B	3171	8.3	1.868	POOR
Event Date (Local):	25-09-24						4		442	3174	8.3	1.841			4					
Analysis Date (Local):	26-09-24						5		443	3038	8.4	1.844			5					
Analyst:	MG						6		444	3182	8.4	1.872			6					
Stdization Date (Local):	25-09-24						7		445	1440	8.5	1.887			7					
KIO ₃ N:	0.0125237						8		446	3191	8.8	2.065			8					
Standard Titer:	0.5168938						9		447A	3190	9.4	2.518			9	447B	730	9.5	2.525	OKAY
Blank Titer:	0.000908						10		448	3188	10.1	3.275			10					
THIO N:	0.242685						11								11					
Sample Flask Water Seal?	Yes No						12		449	3151	10.5	3.603			12					
	gort of						13		450	3189	10.6	3.426			13					
Reagent Change?	MnCl ₂						14		451	3157	10.9	3.678			14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		452	3181	13.1	5.890			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					

Trees.xlsx

439	440	441A	441B	442	443	444	445	446	447A	447B	448	449	450	451	452
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Ri1	Ri1	Ri1	Ri1	Ri1	Ri1	Ri1	Ri1	Ri1	Ri1	Ri1	Ri1	Ri1	Ri1	Ri1	Ri1
2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008	2024-008
Bot-5 m	300 m	250 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	75 m	50 m	25 m	10 m	5 m	0 m
bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 9	bot 10	bot 12	bot 13	bot 14	bot 15