

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:	2021-022	1		1	2089	11.6	3.476		1					
Event:	1	2	X	2A	371	11.8	5.463	vent loose. Spigot leaking	2	2B	3009	11.8	5.461	
Station:	SI	3		3	3100	12.1	6.775		3					
Event Date (Local):	5 Oct 2021	4		4	2043	12.3	7.213		4					
Analysis Date (Local):	6 Oct. 2021	5							5					
Analyst:	KS	6							6					
Stdization Date (Local):	5 Oct. 2021	7							7					
KIO ₃ N:	0.0119622	8							8					
Standard Titer:	0.49884	9		1	2A		2B	3	4					
Blank Titer:	0.00046	10		OXY	OXY		OXY	OXY	OXY					
THIO N:	0.24005	11		SI	SI		SI	SI	SI					
Sample Flask Water Seal?	Yes	12		2021-022	2021-022		2021-022	2021-022	2021-022					
	No	13		20 m	10 m		10 m	5 m	0 m					
Reagent Change?	MnCl ₂	14		bot 1	bot 2		bot 2	bot 3	bot 4					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15												
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16												
	KIO ₃	17												
	THIO	18												
Notes:		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:	2021-022	1		5	2019	9.3	2.874		1					
Event:	6	2	X	6	3000	9.3	2.878	skigot dripping	2					
Station:	59	3		7	2027	9.3	2.879		3					
Event Date (Local):	5 Oct 2021	4		8	3032	9.4	2.973		4					
Analysis Date (Local):	6 Oct. 2021	5		9	2047	9.5	3.088		5					
Analyst:	KS	6		10	3072	9.6	3.197		6					
Stdization Date (Local):	5 Oct. 2021	7		11	3030	9.7	3.269		7					
KIO ₃ N:	0.0119622	8		12	3109	10.0	3.555		8					
Standard Titer:	0.49884	9		13	505	10.1	3.685		9					
Blank Titer:	0.00046	10		14A	3049	10.1	3.715		10	14B	3057	10.1	3.717	
THIO N:	0.24005	11		15	1429	10.2	3.802		11					
Sample Flask Water Seal?	Yes	12		16	930	10.3	3.903		12					
	No	13		17A	1409	10.3	3.898		13	17B	2032	10.3	3.895	
Reagent Change?	MnCl ₂	14		18	3127	10.3	3.896		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					

	5	6	7	8	9	10	11	12	13	14A	14B	15
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
59	59	59	59	59	59	59	59	59	59	59	59	59
2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
Bot-5 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m	30 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	
16	17A	17B	18									
OXY	OXY	OXY	OXY									
59	59	59	59									
2021-022	2021-022	2021-022	2021-022									
10 m	5 m	5 m	0 m									
bot 12	bot 13	bot 13	bot 14									

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

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:	2021-022	1		20	557	7.5	1.072		1					
Event:	9	2		21	2014	7.5	1.072		2					
Station:	102	3		22A	339	7.5	1.080		3	22B	658	7.6	1.078	
Event Date (Local):	06 Oct 2021	4		23	730	7.6	1.082		4					
Analysis Date (Local):	06 Oct 2021	5		24	3051	7.7	1.111		5					
Analyst:	KS	6		25A	1035	7.7	1.070		6	25B	931	7.8	1.067	
Stdization Date (Local):	05 Oct 2021	7		26	3040	7.9	1.307		7					
KIO ₃ N:	0.0119622	8		27	3176	8.1	1.756		8					
Standard Titer:	0.49884	9		28	1472	9.0	2.711		9					
Blank Titer:	0.00046	10		29	3118	9.4	3.258		10					
THIO N:	0.24005	11		30	1402	9.7	3.634		11					
Sample Flask Water Seal?	Yes	12		31	3025	10.1	4.129		12					
	No	13		32	2056	10.1	4.155		13					
Reagent Change?	MnCl ₂	14		33	3067	10.2	4.807		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		34	3013	10.2	4.960		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		20	21	22A	22B	23	24	25A	25B	26	27	28
	KIO ₃	17		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	THIO	18		102	102	102	102	102	102	102	102	102	102	102
Notes:		19		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
		20		Bot-5 m	250 m	200 m	200 m	175 m	150 m	125 m	125 m	100 m	75 m	50 m
		21		bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9
22 - Sword Fish.xlsx		22		30	31	32	33	34		22				
		23		OXY	OXY	OXY	OXY	OXY		23				
		24		102	102	102	102	102		24				
Bottle integrity: First test the top vent (V) by or		2021-022		2021-022	2021-022	2021-022	2021-022	2021-022	the appropriate column if either fails the integrity check and explain this in the comments column.					
		30 m		20 m	10 m	5 m	0 m							
		bot 11		bot 12	bot 13	bot 14	bot 15							

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Cruise Number:	2021-022	1		35	2016	7.8	0.986		1					
Event:	12	2		36	3173	7.7	1.000		2					
Station:	75	3		37	3116	7.8	0.982		3					
Event Date (Local):	06 OCT 2021	4		38A	3090	7.8	0.933		4	38B	2015	7.8	0.925	
Analysis Date (Local):	06 Oct. 2021	5		39	3036	7.9	1.013		5					
Analyst:	KS	6		40	1422	8.1	1.324		6					
Stdization Date (Local):	05 Oct 2021	7		41	712	8.9	2.520		7					
KIO ₃ N:	0.0119622 15x	8		42	1416	9.3	3.039		8					
Standard Titer:	0.4988 8	9		43	2094	9.7	3.597		9					
Blank Titer:	0.00046 9	10		44	3054	9.7	3.546		10					
THIO N:	0.24005 11	11		45	2025	10.0	3.986		11					
Sample Flask Water Seal?	Yes 12	12		46	1408	10.1	4.316		12					
	No 13	13		47	3010	10.3	5.128		13					
Reagent Change?	MnCl ₂ 14	14		48A	458	10.4	5.494		14	48B	1442	10.4	5.499	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		35	36	37	38A	38B	39	40	41	42	43	44
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	KIO ₃	17		75	75	75	75	75	75	75	75	75	75	75
	THIO	18		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
Notes:	10 empty	19		Bot-5 m	200 m	175 m	150 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m
		20		bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10
		21		46	47	48A	48B							
		22		OXY	OXY	OXY	OXY							
		23		75	75	75	75							
		24		2021-022	2021-022	2021-022	2021-022							
				10 m	5 m	0 m	0 m							
				bot 12	bot 13	bot 14	bot 14							

Bottle integrity: First test the top vent (V) by o 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:	2021-022	1		49	425	7.7	1.080		1						
Event:	16	2		50	1465	7.6	1.086		2						
Station:	72	3		51A	690	7.6	1.088		3	51B	429	7.6	1.082		
Event Date (Local):	06 Oct. 2021	4		52	2087	7.6	1.099		4						
Analysis Date (Local):	06 Oct. 2021	5		53A	1378	7.9	1.291		5	53B	196	7.9	1.290		
Analyst:	KS	6		54	933	8.5	1.889		6						
Stdization Date (Local):	05 Oct. 2021	7		55	3008	9.2	2.959		7						
KIO ₃ N:	0.0119622	8		56	1015	9.3	3.090		8						
Standard Titer:	0.49884	9		57	569	9.5	3.429		9						
Blank Titer:	0.00046	10		58	3007	9.7	3.585		10						
THIO N:	0.24005	11		59	2000	9.9	4.194		11						
Sample Flask Water Seal?	Yes	12		60	1053	10.1	4.659		12						
	No	13		61	2069	10.1	4.663		13						
Reagent Change?	MnCl ₂	14		49	50	51A	51B	52	53A	53B	54	55	56	57	58
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		72	72	72	72	72	72	72	72	72	72	72	72
	KIO ₃	17		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
	THIO	18		Bot-5 m	175 m	150 m	150 m	125 m	100 m	100 m	75 m	50 m	40 m	30 m	20 m
		19		bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10
Notes:		20		59	60	61									
		21		OXY	OXY	OXY									
		22		72	72	72									
		23		2021-022	2021-022	2021-022									
		24		10 m	5 m	0 m									
				bot 11	bot 12	bot 13									

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

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Cruise Number:	2021-022	1		63	2016	7.7	1.080		1						
Event:	21	2		64	3173	7.7	1.086		2						
Station:	69	3		65	3116	7.7	1.086		3						
Event Date (Local):	6 Oct 2021	4		66	3090	7.7	1.117		4						
Analysis Date (Local):	07 Oct. 2021	5		67	2015	8.1	1.503		5						
Analyst:	KS	6		68	3036	8.8	2.477		6						
Stdization Date (Local):	07 Oct. 2021	7		69A	1422	9.3	3.070		7	69B	712	9.3	3.064		
KIO ₃ N:	0.0119622	8		70	1416	9.5	3.424		8						
Standard Titer:	0.49884	9		71	2094	9.7	3.734		9						
Blank Titer:	0.00046	10		72A	3054	9.7	3.762		10	72B	2025	9.7	3.760		
THIO N:	0.23997	11		73	1408	9.8	3.914		11						
Sample Flask Water Seal?	☒ Yes ☐ No	12		74	3010	9.8	4.039		12						
Reagent Change?	MnCl ₂	13		63	64	65	66	67	68	69A	69B	70	71	72A	72B
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		69	69	69	69	69	69	69	69	69	69	69	69
	KIO ₃	16		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
	THIO	17		Bot-5 m	150 m	125 m	100 m	75 m	50 m	40 m	40 m	30 m	20 m	10 m	10 m
		18		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	bot 10
Notes:		19		73	74					19					
		20		OXY	OXY					20					
		21		69	69					21					
		22		2021-022	2021-022					22					
		23		5 m	0 m					23					
		24		bot 11	bot 12					24					

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Cruise Number:	2021-022	1		75	458	8.4	1.914		1					
Event:	26	2		76	1442	8.4	1.958		2					
Station:	adcp	3		77	3038	8.8	2.447		3					
Event Date (Local):	07 Oct. 2021	4		78	3162	9.3	2.967		4					
Analysis Date (Local):	07 Oct. 2021	5		79	3094	9.4	3.066		5					
Analyst:	KS	6		80	3143	9.7	3.303		6					
Stdization Date (Local):	07 Oct. 2021	7		81	3175	10.2	3.898		7					
KIO ₃ N:	0.0119622	8		82A	3144	10.3	4.329		8	82B	3121	10.3	4.329	
Standard Titer:	0.49884	9		83	3192	10.3	4.406		9					
Blank Titer:	0.00046	10		84	3083	10.3	4.424		10					
THIO N:	0.23997	11							11					
Sample Flask Water Seal?	Yes	12		75	76	77	78	79	80	81	82A	82B	83	84
	No	13		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Reagent Change?	MhCl ₂	14		adcp	adcp	adcp	adcp	adcp	adcp	adcp	adcp	adcp	adcp	adcp
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		Bot-5 m	100 m	75 m	50 m	40 m	30 m	20 m	10 m	10 m	5 m	0 m
	KIO ₃	17		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 8	bot 9	bot 10
	THIO	18												
Notes:		19												
		20												
		21												
		22												
		23												
		24												

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Cruise Number:	2021-022	1		85	2089	8.5	2.125		1					
Event:	31	2		86	371	9.1	2.902	Bubbles beneath stopper.	2					
Station:	65	3		87	3009	9.2	2.874	Runaway. E.P. late. OT	3					
Event Date (Local):	07 Oct 2021	4		88	3100	9.6	3.343		4					
Analysis Date (Local):	07 Oct 2021	5		89	2043	9.7	3.411		5					
Analyst:	KS	6		90	2019	9.8	3.509		6					
Standardization Date (Local):	07 Oct 2021	7		91	3000	10.1	3.815		7					
KIO ₃ N:	0.0119622	8		92	2027	10.2	3.964		8					
Standard Titer:	0.498874	9		93	3032	10.3	4.179		9					
Blank Titer:	0.00046	10		94A	2047	10.3	4.219		10	94B	3072	10.2	4.217	B withdrawn before A
THIO N:	0.23997	11		85					11					
Sample Flask Water Seal?	Yes	12		OXY					12					
	No	13		65					13					
Reagent Change?	MnCl ₂	14		2021-022					14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		Bot-5 m					15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		bot 1					16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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Cruise Number:	2021-022	1		99	3109	8.9	2.396		1						
Event:	36	2		100	505	8.9	2.452		2						
Station:	62	3		101	3049	9.7	3.273		3						
Event Date (Local):	07 Oct 2021	4		102A	3057	9.6	3.276		4	102B	1429	9.6	3.276		
Analysis Date (Local):	07 Oct 2021	5		103A	930	9.7	3.515	wrong Flask ID. Should be 1409	5	103B	1409	9.8	3.343	wrong Flask ID. Should be 930	
Analyst:	KS	6		104	2032	9.9	3.538		6						
Stdization Date (Local):	07 Oct 2021	7		105	3127	10.0	3.664		7						
KIO ₃ N:	0.0119622	8		106	3145	10.0	3.768		8						
Standard Titer:	0.49884	9		107	2092	10.1	3.916		9						
Blank Titer:	0.00046	10		108	3074	10.1	3.768		10						
THIO N:	0.29997	11		109	471	10.1	3.987		11						
Sample Flask Water Seal?	Yes	12		99	100	101	102A	102B	103B	103A	104	105	106	107	108
	No	13		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Reagent Change?	MnCl ₂	14		62	62	62	62	62	62	62	62	62	62	62	62
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		Bot-5 m	125 m	100 m	75 m	75 m	50 m	50 m	40 m	30 m	20 m	10 m	5 m
	KIO ₃	17		bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10
	THIO	18		109											
Notes:		19		OXY											
		20		62											
16 - Bender.xlsx		21		2021-022											
		22		0 m											
		23		bot 11											
		24													

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

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:	2021-022	1		110	557	9.7	3.057		1						
Event:	42	2		111	2014	9.7	3.080		2						
Station:	56	3		112	339	9.7	3.109		3						
Event Date (Local):	07 Oct. 2021	4		113	658	9.7	3.156		4						
Analysis Date (Local):	07 Oct. 2021	5		114	730	9.9	3.250		5						
Analyst:	KS	6		115	3051	9.9	3.299		6						
Stdization Date (Local):	07 Oct. 2021	7		116	1035	10.1	3.414		7						
KIO ₃ N:	0.0119622	8		117	931	10.1	3.445		8						
Standard Titer:	0.49884	9		118	3040	10.1	3.454		9						
Blank Titer:	0.00046	10		119A	3176	10.1	3.487		10	119B	1472	10.1	3.490		
THIO N:	0.23997	11		120	3118	10.3	3.598		11						
Sample Flask Water Seal?	Yes	12		121	1402	10.3	3.632		12						
	No	13		122	3025	10.3	3.679		13						
Reagent Change?	MnCl ₂	14		123A	2056	10.3	3.735		14	123B	3067	10.3	3.734		
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		110	111	112	113	114	115	116	117	118	119A	119B	120
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	KIO ₃	17		56	56	56	56	56	56	56	56	56	56	56	56
	THIO	18		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
Notes:		19		Bot-5 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	30 m	20 m
		20		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10	bot 11
22 - Sword Fish.xlsx		21		121	122	123A	123B								
		22		OXY	OXY	OXY	OXY								
		23		56	56	56	56								
		24		2021-022	2021-022	2021-022	2021-022								
Bottle integrity: First test the top vent (V) by or				10 m	5 m	0 m	0 m								
				bot 12	bot 13	bot 14	bot 14								

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2021-022	1		124A	2089	9.9	3.069		1	124B	371	9.9	3.124	???	
Event:	52	2		125	3009	9.9	3.144		2						
Station:	46	3		126	3100	9.9	3.184		3						
Event Date (Local):	07 Oct 2021	4		127	2043	10.1	3.140		4						
Analysis Date (Local):	07 Oct. 2021	5		128A	2019	10.0	2.948		5	128B	3000	10.0	2.947		
Analyst:	KS	6		129	2027	10.1	3.394		6						
Stdization Date (Local):	07 Oct. 2021	7		130	3032	10.5	3.734		7						
KIO ₃ N:	0.0119622	8		131	2047	10.9	4.172		8						
Standard Titer:	0.49884	9		132	3072	11.2	4.602		9						
Blank Titer:	0.00046	10		133	3030	12.0	5.830		10						
THIO N:	0.23997	11		134	3109	12.1	5.988		11						
Sample Flask Water Seal?	Yes	12		135	505	12.1	6.081		12						
	No	13		124A	124B	125	126	127	128A	128B	129	130	131	132	133
Reagent Change?	MnCl ₂	14		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		46	46	46	46	46	46	46	46	46	46	46	46
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
	KIO ₃	17		Bot-5 m	Bot-5 m	150 m	125 m	100 m	75 m	75 m	50 m	40 m	30 m	20 m	10 m
	THIO	18		bot 1	bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10
Notes:		19		134	135										
		20		OXY	OXY										
		21		46	46										
		22		2021-022	2021-022										
		23		5 m	0 m										
		24		bot 11	bot 12										

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2021-022	1		136	456	9.4	2.539		1					
Event:	56	2		137	2098	9.4	2.591		2					
Station:	42	3		138	611	9.4	2.703		3					
Event Date (Local):	08 Oct 2021	4		139	3029	9.3	2.780		4					
Analysis Date (Local):	08 Oct. 2021	5		140	2007	9.4	2.756		5					
Analyst:	KS	6		141	3041	9.7	2.738		6					
Stdization Date (Local):	07 Oct. 2021	7		142	3155	9.8	2.729		7					
KIO ₃ N:	0.0119622	8		143	3120	9.9	2.694		8					
Standard Titer:	0.49884	9		144	622	9.8	2.917		9					
Blank Titer:	0.00046	10		145A	3044	9.8	3.095		10	145B	3101	9.8	3.176	- incorrect flask ID. (3044)
THIO N:	0.23997	11		146	3078	9.9	3.281		11					
Sample Flask Water Seal?	Yes	12		147	3048	10.0	3.369		12					
	No	13		148	3131	10.1	3.505		13					
Reagent Change?	MnCl ₂	14		149	3079	12.3	5.601		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		150	3142	12.6	6.114		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17		152A	2065	12.2	6.170		17	152B	3133	12.2	6.169	
	THIO	18												
Notes:		19		136	137	138	139	140	141	142	143	144	145B	145A
		20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
		21		42	42	42	42	42	42	42	42	42	42	42
		22		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
		23		Bot-5 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	50 m
		24		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10
				147	148	149	150	152A	152B	152B	152B	152B	152B	152B
				OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
				42	42	42	42	42	42	42	42	42	42	42
				2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
				30 m	30 m	30 m	30 m	30 m	30 m	30 m	30 m	30 m	30 m	30 m
				bot 12	bot 12	bot 12	bot 12	bot 12	bot 12	bot 12	bot 12	bot 12	bot 12	bot 12
				148	149	150	152A	152B	152B	152B	152B	152B	152B	152B
				OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
				42	42	42	42	42	42	42	42	42	42	42
				2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
				20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m
				bot 13	bot 13	bot 13	bot 13	bot 13	bot 13	bot 13	bot 13	bot 13	bot 13	bot 13
				149	150	152A	152B	152B	152B	152B	152B	152B	152B	152B
				OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
				42	42	42	42	42	42	42	42	42	42	42
				2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
				10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m
				bot 14	bot 14	bot 14	bot 14	bot 14	bot 14	bot 14	bot 14	bot 14	bot 14	bot 14
				150	152A	152B	152B	152B	152B	152B	152B	152B	152B	152B
				OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
				42	42	42	42	42	42	42	42	42	42	42
				2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
				5 m	5 m	5 m	5 m	5 m	5 m	5 m	5 m	5 m	5 m	5 m
				bot 15	bot 15	bot 15	bot 15	bot 15	bot 15	bot 15	bot 15	bot 15	bot 15	bot 15
				152A	152B	152B	152B	152B	152B	152B	152B	152B	152B	152B
				OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
				42	42	42	42	42	42	42	42	42	42	42
				2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
				0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m
				bot 17	bot 17	bot 17	bot 17	bot 17	bot 17	bot 17	bot 17	bot 17	bot 17	bot 17
				152B	152B	152B	152B	152B	152B	152B	152B	152B	152B	152B
				OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
				42	42	42	42	42	42	42	42	42	42	42
				2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
				0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m
				bot 17	bot 17	bot 17	bot 17	bot 17	bot 17	bot 17	bot 17	bot 17	bot 17	bot 17
				146	146	146	146	146	146	146	146	146	146	146
				OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
				42	42	42	42	42	42	42	42	42	42	42
				2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
				40 m	40 m	40 m	40 m	40 m	40 m	40 m	40 m	40 m	40 m	40 m
				bot 11	bot 11	bot 11	bot 11	bot 11	bot 11	bot 11	bot 11	bot 11	bot 11	bot 11

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

column.

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:	2021-022	1		153	2016	9.5	2.552		1					
Event:	63	2		154	3173	9.5	2.675	Leaky Nisk	2					
Station:	39	3		155	3116	9.6	2.680		3					
Event Date (Local):	08 OCT 2021	4		156	3090	9.7	2.756		4					
Analysis Date (Local):	07 Oct. 2021	5		157	2015	9.7	2.766		5					
Analyst:	KS	6		158	3036	9.6	2.742		6					
Stdization Date (Local):	07 Oct. 2021	7		159A	1422	9.8	2.714		7	159B	712	9.8	2.710	
KIO ₃ N:	0.0119622	8		160	1416	9.7	2.731		8					
Standard Titer:	0.49884	9		161	2094	9.7	2.875		9					
Blank Titer:	0.00046	10		162	3054	9.9	3.250		10					
THIO N:	0.23997	11		163	2025	10.1	3.423		11					
Sample Flask Water Seal?	Yes	12		164	1408	10.4	3.760		12					
	No	13		165	3010	11.2	4.452		13					
Reagent Change?	MnCl ₂	14		166	458	11.9	4.952		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		167A	1442	12.0	5.643		15	167B	3038	12.0	5.645	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		168	3162	12.1	6.057		16					
	KIO ₃	17		169	3094				17					
	THIO	18												
Notes: * Ignore sample depths on labels * See notes on 20 - Shark.xlsx on rosette log! skipped 350 m depth.	153	154	155	156	157	158	159A	159B	160	161	162	163		
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
	39	39	39	39	39	39	39	39	39	39	39	39		
	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022		
	Bot 5 m	350 m	300 m	250 m	200 m	175 m	150 m	150 m	125 m	100 m	75 m	50 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		

164 OXY 39 2021-022 40 m bot 12

165 OXY 39 2021-022 30 m bot 13

166 OXY 39 2021-022 20 m bot 14

167A OXY 39 2021-022 10 m bot 15

167B OXY 39 2021-022 40 m bot 15

168 OXY 39 2021-022 5 m bot 16

check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2021-022	1		174A	2089	9.4	2.573		1	174B	371	9.5	2.576		
Event:	70	2		175	3009	9.4	2.634		2						
Station:	27	3		176	3100	9.2	2.831		3						
Event Date (Local):	8 Oct 2021	4		177	2043	9.2	2.903		4						
Analysis Date (Local):	08 Oct. 2021	5		178	2019	9.7	2.703		5						
Analyst:	KS	6		179	3000	9.8	2.690		6						
Stdization Date (Local):	07 Oct. 2021	7		180	2027	10.0	2.715		7						
KIO ₃ N:	0.0119622	8		181	3032	10.1	2.781		8						
Standard Titer:	0.49884	9		182	2047	10.0	2.730		9						
Blank Titer:	0.00046	10		183	3072	10.0	2.827		10						
THIO N:	0.23997	11		184	3030	9.7	2.920		11						
Sample Flask Water Seal?	☒ Yes No	12		185	3109	10.0	3.271		12						
Reagent Change?	MnCl ₂	13		186	505	10.3	3.564		13						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		187	3049	11.9	5.719		14						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		188A	3057	12.2	6.303	- large particle swirling around in sample.	15	188B	1429	12.2	6.297		
	KIO ₃	16		189	930	12.4	6.372		16						
	THIO	17		174A	174B	175	176	177	178	179	180	181	182	183	184
		18		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
		19		27	27	27	27	27	27	27	27	27	27	27	27
		20		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
		21		Bot-5 m	Bot-5 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m
		22		bot 1	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11
Notes:		185		OXY	27	2021-022	30 m	bot 12	186		OXY	27	2021-022	20 m	bot 13
		187		OXY	27	2021-022	10 m	bot 14	188A		OXY	27	2021-022	5 m	bot 15
		188B		OXY	27	2021-022	5 m	bot 15	189		OXY	27	2021-022	0 m	bot 16
		185		OXY	27	2021-022	30 m	bot 12	186		OXY	27	2021-022	20 m	bot 13
		187		OXY	27	2021-022	10 m	bot 14	188A		OXY	27	2021-022	5 m	bot 15
		189		OXY	27	2021-022	0 m	bot 16							

16 - Bender.xlsx

Bottle integrity: First test the top vent

ments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2021-022	1		194	2016	9.3	2.742		1						
Event:	77	2		195	3173	9.3	2.775		2						
Station:	2	3		196	3116	9.3	2.837		3						
Event Date (Local):	8 Oct 2021	4		197	3090	9.3	2.813		4						
Analysis Date (Local):	09 Oct 2021	5		198A	2015	9.7	2.684		5	198B	3036	9.8	2.679		
Analyst:	KS	6		199A	1422	9.8	2.682		6	199B	712	9.9	2.692		
Stdization Date (Local):	09 Oct. 2021	7		200	1416	10.0	2.677		7					Redone - 1st time had no O ₂	
KIO ₃ N:	0.0119622	8		201	2094	9.9	2.749		8						
Standard Titer:	0.49944	9		202	3054	9.9	3.107		9						
Blank Titer:	0.00046	10		203	2025	10.1	3.367		10						
THIO N:	0.239776	11		204	1408	10.4	3.856		11						
Sample Flask Water Seal?	Yes	12		205	3010	10.9	4.310		12						
	No	13		206	458	11.9	5.883		13						
Reagent Change?	MnCl ₂	14		207	1442	12.1	6.342		14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	X	208	3038	12.1	6.348		15					Squigot dripping	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		194	195	196	197	198A	198B	199A	199B	200	201	202	203
	KIO ₃	17		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	THIO	18		2	2	2	2	2	2	2	2	2	2	2	2
Notes:		19		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
		20		Bot-5 m	250 m	200 m	175 m	150 m	150 m	125 m	125 m	100 m	75 m	50 m	40 m
		21		bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9	bot 10
20 - Shark.xlsx		22		204	205	206	207	208		22					
		23		OXY	OXY	OXY	OXY	OXY		23					
		24		2	2	2	2	2		24					
				2021-022	2021-022	2021-022	2021-022	2021-022							
				30 m	20 m	10 m	5 m	0 m							
				bot 11	bot 12	bot 13	bot 14	bot 15							

Bottle integrity: First test the top vent (V) by or the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments																								
Cruise Number:	2021-022	1		213	2089	9.3	2.685		1																													
Event:	83	2		214	371	9.3	2.699		2																													
Station:	3	3		215	3009	9.2	2.792		3																													
Event Date (Local):	09 Oct. 2021	4		216A	3100	9.2	2.859		4	216B	2043	9.2	2.857																									
Analysis Date (Local):	09 Oct. 2021	5		217	2019	9.3	2.821		5																													
Analyst:	KS	6		218	3000	9.7	2.705		6																													
Stdization Date (Local):	09 Oct. 2021	7		219	2027	9.9	2.644		7																													
KIO ₃ N:	0.0119622	8		220A	3032	9.9	2.653		8	220B	2047	9.9	2.648	chipped stopper on flask → removed from relation																								
Standard Titer:	0.49944	9		221	3072	9.8	2.659		9																													
Blank Titer:	0.00046	10		222	3030	9.7	3.052		10																													
THIO N:	0.2377 76	11		223	3109	10.1	3.525		11																													
Sample Flask Water Seal?	Yes No	12		224	505	10.7	4.242		12																													
Reagent Change?	MnCl ₂	13		225	3049	11.4	4.957		13																													
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		226	3057	12.0	5.827		14																													
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		227	1429	12.1	6.295		15																													
	KIO ₃	16		228	930	12.3	6.396		16																													
	THIO	17		213	214	215	216A	216B	217	218	219	220A	220B	221	222																							
		18		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY																							
		19		3	3	3	3	3	3	3	3	3	3	3	3																							
		20		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022																							
		21		Bot-5 m	300 m	250 m	200 m	200 m	175 m	150 m	125 m	100 m	100 m	75 m	50 m																							
		22		bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 8	bot 9	bot 10																							
		23																																				
		223		OXY	3	2021-022	40 m	bot 11	224	OXY	3	2021-022	30 m	bot 12	225	OXY	3	2021-022	20 m	bot 13	226	OXY	3	2021-022	10 m	bot 14	227	OXY	3	2021-022	5 m	bot 15	228	OXY	3	2021-022	0 m	bot 16

Bottle integrity: First test the top vent (V)

nts 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:	2021-022	1		229	456	9.1	2.894		1						
Event:	86	2		230A	2098	9.1	2.899		2	230B	611	9.2	2.901		
Station:	6	3		231	3029	9.5	2.773		3						
Event Date (Local):	09 Oct 2021	4		232	2007	9.3	2.712		4						
Analysis Date (Local):	09 Oct. 2021	5		233	3041	9.5	2.632		5						
Analyst:	KS	6		234	3155	9.4	2.779		6						
Stdization Date (Local):	09 Oct. 2021	7		235	3120	10.1	3.582		7						
KIO ₃ N:	0.0119622	8		236	622	10.5	4.100		8						
Standard Titer:	0.49944	9		237	3044	10.8	4.317	- runaway titration. Sample over-titrated.	9						
Blank Titer:	0.00046	10		238A	3101	11.3	4.912		10	238B	3078	11.3	4.925		
THIO N:	0.23976	11		239	3048	11.7	5.238		11						
Sample Flask Water Seal?	☒ Yes	12		240	3131	11.9	5.741		12						
	No	13		241	3079	12.0	5.976		13						
Reagent Change?	MnCl ₂	14		229	230A	230B	231	232	233	234	235	236	237	238A	238B
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		6	6	6	6	6	6	6	6	6	6	6	6
	KIO ₃	17		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
	THIO	18		Bot-5 m	175 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m	20 m
		19		bot 1	bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10
Notes:		20		239	240	241									
		21		OXY	OXY	OXY									
		22		6	6	6									
		23		2021-022	2021-022	2021-022									
		24		10 m	5 m	0 m									
				bot 11	bot 12	bot 13									

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

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:	2021-022	1		242	3142	9.0	2.742		1					
Event:	89	2		243	2065	9.0	2.695		2					
Station:	9	3		244	3133	9.2	2.629		3					
Event Date (Local):	09 Oct. 2021	4		245	3158	9.3	2.594		4					
Analysis Date (Local):	09 Oct. 2021	5		246	3005	9.4	2.677		5					
Analyst:	KS	6		247A	2049	10.2	3.704		6	247B	1406	10.2	3.702	
Stdization Date (Local):	09 Oct. 2021	7		248	3037	7.5	4.052		7					
KIO ₃ N:	0.0119622	8		249A	3103	10.8	4.327		8	249B	3059	9.8	4.328	10.8
Standard Titer:	0.49944	9		250	3080	11.1	4.521		9					
Blank Titer:	0.00046	10		251	1459	11.7	5.513		10					
THIO N:	0.23976	11		252	3190	11.9	5.736		11					
Sample Flask Water Seal?	☒ Yes ☐ No	12		253	3014	11.9	5.736		12					
Reagent Change?	MnCl ₂	13		242	243	244	245	246	247A	247B	248			
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		9	9	9	9	9	9	9	9			
	KIO ₃	16		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022			
	THIO	17		Bot-5 m	150 m	125 m	100 m	75 m	50 m	50 m	40 m			
		18		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7			
Notes:		19		249A	249B	250	251	252	253	19				
		20		OXY	OXY	OXY	OXY	OXY	OXY	20				
		21		9	9	9	9	9	9	21				
		22		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	22				
		23		30 m	30 m	20 m	10 m	5 m	0 m	23				
		24		bot 8	bot 8	bot 9	bot 10	bot 11	bot 12	24				

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

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:	2021-022	1		254	557	9.2	2.807		1	this one too				Duplicate with 257A
Event:	94/95	2		255	2014	9.2	2.826		2					
Station:	12	3		256A	339	9.2	2.816	Need to investigate what Niskin	3	256B	658	9.3	2.790	Samples 257A, B + 256A, B
Event Date (Local):	09 OCT 2021	4		257A	730	9.4	2.793	this belongs to	4	257B	3051	9.4	-99	mixed up order. No sample 257B.
Analysis Date (Local):	09 Oct. 2021	5		258	1035	9.4	2.768	this one too!	5					sampled incorrect Niskin.
Analyst:	KS	6		259	931	9.5	2.707		6					Abandoned replicate since
Stdization Date (Local):	09 Oct. 2021	7		260	3040	9.5	2.653		7					Niskin open too long.
KIO ₃ N:	0.0119622	8		261	3176	9.5	2.650		8					
Standard Titer:	0.49944	9		262	1472	9.5	2.777		9					
Blank Titer:	0.00046	10		263	3118	10.2	3.633		10					
THIO N:	0.239876	11		264	1402	10.7	4.126		11					
Sample Flask Water Seal?	Yes	12		265	3025	10.9	4.392		12					
	No	13		266	2056	11.7	5.236		13					
Reagent Change?	MnCl ₂	14		267	3067	12.1	6.030		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		268	3013	12.1	6.051		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		269	1418	12.1	6.056		16					
	KIO ₃	17	254	255	256A	256B	257B	257A	258	259	260	261	262	263
	THIO	18	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
		19	12	12	12	12	12	12	12	12	12	12	12	12
		20	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
		21	Bot-5 m	300 m	250 m	250 m	200 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m
		22	bot 1	bot 2	bot 3	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10
		23	264	265	266	267	268	269	23					
		24	OXY	OXY	OXY	OXY	OXY	OXY	24					
			12	12	12	12	12	12						
			2021-022	2021-022	2021-022	2021-022	2021-022	2021-022						
			40 m	30 m	20 m	10 m	5 m	0 m						

Notes: 1 mL burette and piston replacement prior to this event.

22 - Sword Fish.xlsx

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

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:	2021-022	1		271	2016	9.0	2.865		1					
Event:	98	2		272A	3173	9.0	2.872		2	272B	3116	9.0	2.873	
Station:	14	3		273	3090	9.0	2.868		3					
Event Date (Local):	09 Oct. 2021	4		274	2015	9.1	2.819		4					
Analysis Date (Local):	09 Oct. 2021	5		275	3036	9.3	2.743		5					
Analyst:	KS	6		276	1422	9.2	2.738		6					
Stdization Date (Local):	09 Oct. 2021	7		277A	712	9.2	2.637		7	277B	1416	9.2	2.636	
KIO ₃ N:	0.0119622	8		278	2094	9.1	2.570		8					
Standard Titer:	0.49903	9		279	3054	9.5	3.077		9					
Blank Titer:	0.00046	10		280	2025	9.9	3.505		10					
THIO N:	0.23988	11		281	1408	10.1	3.700		11					
Sample Flask Water Seal?	Yes	12		282	3010	10.1	3.749		12					
	No	13		283	458	10.7	4.594		13					
Reagent Change?	MnCl ₂	14		284	1442	10.8	4.751		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		285	3038	10.8	4.728		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		286	3162	10.8	4.726		16					
	KIO ₃	17		271	272A	272B	273	274	275	276	277A	277B	278	279
	THIO	18		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
		19		14	14	14	14	14	14	14	14	14	14	14
Notes:		20		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022
		21		Bot-5 m	300 m	300 m	250 m	200 m	175 m	150 m	125 m	125 m	100 m	75 m
		22		bot 1	bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9
		23		281	282	283	284	285	286	23				
		24		OXY	OXY	OXY	OXY	OXY	OXY	24				
				14	14	14	14	14	14					
				2021-022	2021-022	2021-022	2021-022	2021-022	2021-022					
				40 m	30 m	20 m	10 m	5 m	0 m					
				bot 11	bot 12	bot 12	bot 14	bot 15	bot 16					

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

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

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:	2021-022	1		287	456	9.0	2.869			1					
Event:	102	2		288	2098	9.1	2.850			2					
Station:	16	3		289	611	9.2	2.810			3					
Event Date (Local):	9 Oct 2021	4		290A	3029	9.4	3.051			4	290B	2007	9.4	3.049	
Analysis Date (Local):	10 Oct 2021	5		291	3041	9.5	3.183			5					
Analyst:	KS	6		292	3155	9.5	3.237			6					
Stdization Date (Local):	9 Oct. 2021	7		293	3120	9.9	3.550			7					
KIO ₃ N:	0.0119622	8		294	622	9.9	3.684			8					
Standard Titer:	0.49905	9		295	3044	10.1	3.902			9					
Blank Titer:	0.00046	10		296A	3101	10.1	3.888			10	296B	3078	10.1	3.886	
THIO N:	0.23988	11		297	3048	10.1	3.933			11					
Sample Flask Water Seal?	☒ Yes	12								12					
	No	13		287	288	289	290A	290B	291	292	293	294	295		
Reagent Change?	MnCl ₂	14		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		16	16	16	16	16	16	16	16	16	16		
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022	2021-022		
	KIO ₃	17		Bot-5 m	125 m	100 m	75 m	75 m	50 m	40 m	30 m	20 m	10 m		
	THIO	18		bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9		
Notes:		19		296A	296B	297				19					
		20		OXY	OXY	OXY				20					
		21		16	16	16				21					
17 - Loch Ness.xlsx		22		2021-022	2021-022	2021-022				22					
		23		5 m	5 m	0 m				23					
		24		bot 10	bot 10	bot 11				24					

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