

Nessy



Cruise and Analysis Information										Nis k	Sample ID	Flask ID	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments					Nis k	Sample ID	Flask ID	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments						
Cruise Number:	2021-005										1		2	456	8.5	3.311					1										
Event:	3										2		3	2098	8.5	3.358					2										
Station:	59										3		4	611	8.8	3.771					3										
Event Date (Local):	19 May 2021										4		5	3029	8.9	3.949					4										
Analysis Date (Local):	19 May 2021										5		6	2007	9.3	4.331					5										
Analyst:	KS										6		7A	3041	9.6	4.647					6	7B	3155	9.5	4.648						
Stratization Date (Local):	19 May 2021										7		8	3120	9.7	4.828					7										
KIO ₃ N:	0.0118676										8		9	622	9.8	4.916					8										
Standard Titer:	0.49052										9		10	3041	10.1	5.211					9										
Blank Titer:	0.00042										10		11A	3161	10.4	5.603					10	11B	3078								
THIO N:	0.24217										11		12	3078	10.6	5.602					11										
Sample Flask Water Seal?	Yes										12		2								12										
Reagent Change?	No										13		3								13										
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂										14		4								14										
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄										15		5								15										
	KIO ₃										16		6								16										
	THIO										17		7A								17										
Notes:											18		7B								18										
											19		8								19										
											20		9								20										
											21		10								21										
											22		11								22										
											23		12								23										
											24		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 integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Sword Fish



Last Updated: December 2019

Cruise and Analysis Information			Nisk ID	Nisk Int V S	Sample ID	Flask ID	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:	2021-005		1		13	557	7.2	1.670		1					
Event:	6		2		14	2014	7.2	1.684		2					
Station:	JF2		3		15	339	7.7	2.286		3					
Event Date (Local):	19/05/2021		4		16A	658	7.9	2.818		4	16B	730	8.0	2.825	
Analysis Date (Local):	20 May 2021		5		17	3051	8.5	3.574		5					
Analyst:	KS		6		18	1035	8.6	3.765		6					
Standardization Date (Local):	19 May 2021		7		19	931	8.9	4.386		7					
KIO ₃ N:	0.0118676		8		20	3040	9.2	4.769		8					
Standard Titer:	0.49052		9		21	3176	9.7	5.154		9					
Blank Titer:	0.00042		10		22A	1472	9.9	5.345		10	22B	3118	9.9	5.349	
THIO N:	0.24217		11		13					18					
Sample Flask Water Seal?	☒ Yes		12		OXY JF2					19					
Reagent Change?	MnCl ₂		13		2021-005					20					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		14		2021-005					17					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		15		2021-005					18					
	KIO ₃		16		Bot 5 m bot 1					19					
	THIO		17							20					
Notes:			18							21					
			19							22					
			20							23					
			21							24					
			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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Water Properties Group**



Last Updated: December 2015

Bottle integrity: First test the top vent (V) by opening the lower spigot (J) and testing for gas flow.

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:	2021-005	1				30	1457	8.0	2.750		1					
Event:	8	2				31	1023	8.5	3.126		2					
Station:	LB02	3				32A	3075	9.4	5.881		3	32B	437	9.4	5.886	
Event Date (Local):	19/05/2021	4				33	1432	9.9	7.587		4					
Analysis Date (Local):	20 May 2021	5				34	3031	9.8	7.581		5					
Analyst:	K5	6									6					
Standardization Date (Local):	19 May 2021	7									7					
KIO ₃ N:	0.0118676	8									8					
Standard Titer:	0.49052	9				30					9					
Blank Titer:	0.00042	10				OXY LB02	OXY LB02				10					
THIO N:	0.0118676	11				2021-005	2021-005				11					
Sample Flask Water Seal?	Yes	12				2021-005	2021-005				12					
	No	13				Bot-10 m	30 m				13					
Reagent Change?	MnCl ₂	14				bot 1	bot 2				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					

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								
Cruise Number:		2021-005		Nisk ID	1	Sample ID	36	Flask 1 <td>2016</td> <th>Draw Temp 1 (°C)</th> <td>7.2</td> <th>OXY-1 (mL/L)</th> <td>1.574</td> <th>Nisk ID</th> <td>1</td> <th>Sample ID</th> <td>37B</td> <th>Flask 2<td>3116</td><th>Draw Temp 2 (°C)</th><td>7.5</td><th>OXY-2 (mL/L)</th><td>1.974</td></th>	2016	Draw Temp 1 (°C)	7.2	OXY-1 (mL/L)	1.574	Nisk ID	1	Sample ID	37B	Flask 2 <td>3116</td> <th>Draw Temp 2 (°C)</th> <td>7.5</td> <th>OXY-2 (mL/L)</th> <td>1.974</td>	3116	Draw Temp 2 (°C)	7.5	OXY-2 (mL/L)	1.974
Event:		10		Nisk Int V S	2		37A	3173	7.5	1.978			Nisk ID	2		37B	3116	7.5	1.974				
Station:		LB04			3		38	3090	8.4	3.472			Nisk ID	3									
Event Date (Local):		20 May 2021			4		39	2015	8.6	3.706			Nisk ID	4									
Analysis Date (Local):		20 May 2021			5		40	3036	9.0	4.418			Nisk ID	5									
Analyst:		KS			6		41	1422	9.8	6.925			Nisk ID	6									
Stdization Date (Local):		19 May 2021			7		42	712	9.8	7.140			Nisk ID	7									
KIO ₃ N:		0.0118676			8								Nisk ID	8									
Standard Titer:		0.49052			9		36	37A	37B	38	39	40	41	42									
Blank Titer:		0.00042			10		OXY LB04	OXY LB04	OXY LB04	OXY LB04	OXY LB04	OXY LB04	OXY LB04	OXY LB04									
THIO N:		0.24217			11																		
Sample Flask Water Seal?		☒ Yes			12		2021-005 Bot-10 m	2021-005 75 m	2021-005 75 m	2021-005 50 m	2021-005 30 m	2021-005 20 m	2021-005 10 m	2021-005 5 m									
Reagent Change?		No			13		bot 1	bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7									
(Please circle reagent that was changed prior to sampling and standardization)		MnCl ₂			14																		
NOTE NEW BATCH IN LOG BOOK		NaI/NaOH			15																		
		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.

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group



Last Updated: December 2019

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)							
1		44	2094	7.2	1.564	1											
2		45A	3054	7.2	1.620	2	45B	2025	7.3	1.616							
3		46	1408	7.5	1.960	3											
4		47	3010	8.2	3.125	4											
5		48	458	9.1	4.655	5											
6		49	1442	9.8	5.733	6											
7		50	3038	9.8	5.942	7											
8		51	3162	9.8	5.952	8											
9						9											
10		44 OXY	45A OXY	45B OXY	46 OXY	47 OXY	48 OXY	49 OXY	50 OXY	51 OXY							
11		LB06	LB06	LB06	LB06	LB06	LB06	LB06	LB06	LB06							
12		2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005							
13		Bot-10 m	100 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m							
14		bot 1	bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8							
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes: 20 - Shark.xlsx

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.



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:	2021-005	1				53	55A	7.2	1.253	1401	1					
Event:	29	2				54	2014	7.2	1.278		2					
Station:	LB08	3				55A	339	7.3	1.281		3	55B	658	7.3	1.281	
Event Date (Local):	20/05/2021	4									4					
Analysis Date (Local):	20 May 2021	5				57	730	7.5	1.365		5					
Analyst:	KS	6				58	3051	7.4	1.643		6					
Standardization Date (Local):	19 May 2021	7				59	1035	7.7	2.129		7					
KIO ₃ N:	0.0118676	8									8					
Standard Titer:	0.49052	9									9					
Blank Titer:	0.00042	10				62	931	8.6	3.746		10					
THIO N:	0.24217	11									11					
Sample Flask Water Seal?	Yes	12				64	3040	9.3	4.904		12					
Reagent Change?	No	13									13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	MnCl ₂ NaI/NaOH H ₂ SO ₄ KIO ₃ THIO	14				66	3176	10.1	6.835		14					
		15									15					
		16									16					
		17				69	1472	10.5	7.355	Top cap leaky	17					
Notes:		18				53	54	55A	55B	57	58	59	62	64	66	69
		19				OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
		20				LB08	LB08	LB08	LB08	LB08	LB08	LB08	LB08	LB08	LB08	LB08
		21				2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005
		22				Bot-5 m	Bot-10 m	125 m	125 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m
		23				bot 1	bot 2	bot 3	bot 3	bot 5	bot 6	bot 7	bot 10	bot 12	bot 14	bot 17
		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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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:	2021-005		1		73	3118	6.9	1.367	- No water seal	1					
Event:	32		2		74	1402	4.1	1.369		2					
Station:	LB09		3		75	3025	4.3	1.410		3					
Event Date (Local):	20/05/2021		4		76	2056	7.6	2.021		4					
Analysis Date (Local):	20 May 2021		5		77	3067	8.3	3.284		5					
Analyst:	KS		6		78	3068	8.7	3.964	- Late EP. Sample overfilled.	6					
Standardization Date (Local):	19 May 2021		7		79A	3013	9.5	5.488	- Late EP. Sample overfilled.	7	79B	1418	9.5	5.469	
KIO ₃ N:	0.0118676		8		80	1457	10.1	7.808	B.I. of a runaway.	8					
Standard Titer:	0.49052		9		81	1023	10.3	8.102		9					
Blank Titer:	0.00017		10												
THIO N:	6.24217		11			73									
Sample Flask Water Seal?	Yes		12			OXY LB09									
Reagent Change?	No		13			2021-005									
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂		14			Bot-10 m									
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH		15			2021-005									
	H ₂ SO ₄		16			bot 1									
	KIO ₃		17			2021-005									
	THIO		18			bot 2									
Notes:			19			bot 3									
			20			bot 4									
			21			bot 5									
			22			bot 6									
			23			bot 7									
			24			bot 8									
						bot 9									

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Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information			
Cruise Number:	2021-005		
Event:	34		
Station:	LB11		
Event Date (Local):	20/05/2021		
Analysis Date (Local):	21 May 2021		
Analyst:	KS		
Standardization Date (Local):	21 May 2021		
KIO ₃ N:	0.0118676		
Standard Titer:	0.49053		
Blank Titer:	0.00042		
THIO N:	0.24218		
Sample Flask Water Seal?	☒ Yes		
Reagent Change?	No		
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	MnCl ₂ NaI/NaOH H ₂ SO ₄ KIO ₃ THIO		
Notes:			
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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	
1		83	425	7.3	1.758		1						
2		84	1465	7.5	1.993		2						
3		85	690	7.7	2.290		3						
4		86	429	7.9	2.550		4						
5		87	2087	8.1	2.973		5						
6		88	1378	7.9	3.733		6						
7		89A	196	8.1	4.776		7	89B	933	8.1	4.781		
8		90	3008	8.3	5.287		8						
9		91	1015	11.1	6.563	- labo EP. Sample over-tilrated	9						
10		92	569	11.1	6.577		10						
11		93	3007	11.3	6.579		11						
12							12						
13		83	84	85	86	87	88	89A	89B	90	91	92	93
14		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
15		LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11
16		2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005
17		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
18		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	bot 11
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.

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:	2021-005	1		94	2000	6.2	0.606				1					
Event:	30	2		95	1053	6.5	0.731				2					
Station:	LB12	3		96A	2069	6.6	1.379				3	96B	691	6.7	1.389	
Event Date (Local):	20/05/2021	4		97	2040	7.1	1.718				4					
Analysis Date (Local):	21 May 2021	5		98	1019	7.4	2.054				5					
Analyst:	KS	6		99	94	7.6	2.260				6					
Standardization Date (Local):	21 May 2021	7		100	2075	7.9	2.577				7					
KIO ₃ N:	0.0118676	8		101	2088	8.0	2.250				8					
Standard Titer:	6.49053	9		102	650	8.2	2.836				9					
Blank Titer:	0.2421879	10		103	1470	8.3	3.581				10					
THIO N:	0.00042	11		104	2090	8.2	5.049				11					
Sample Flask Water Seal?	Yes	12		105	438	8.5	6.609				12					
	No	13		106	3070	9.5	6.642				13					
Reagent Change?	MnCl ₂	14		107A	3108	11.3	6.933				14	107B	1322	11.3	6.922	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		108	2086	11.5	6.916				15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		94	OXY	OXY	OXY	OXY	OXY	OXY	97	OXY	OXY	OXY	OXY	OXY
	KIO ₃	17		95	OXY	OXY	OXY	OXY	OXY	OXY	98	OXY	OXY	OXY	OXY	OXY
	THIO	18		96A	OXY	OXY	OXY	OXY	OXY	OXY	99	OXY	OXY	OXY	OXY	OXY
Notes:		19		96B	OXY	OXY	OXY	OXY	OXY	OXY	100	OXY	OXY	OXY	OXY	OXY
		20		97	OXY	OXY	OXY	OXY	OXY	OXY	101	OXY	OXY	OXY	OXY	OXY
		21		98	OXY	OXY	OXY	OXY	OXY	OXY	102	OXY	OXY	OXY	OXY	OXY
		22		99	OXY	OXY	OXY	OXY	OXY	OXY	103	OXY	OXY	OXY	OXY	OXY
		23		100	OXY	OXY	OXY	OXY	OXY	OXY	104	OXY	OXY	OXY	OXY	OXY
		24		101	OXY	OXY	OXY	OXY	OXY	OXY	105	OXY	OXY	OXY	OXY	OXY

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Bottle integrity: First test the top vent (V) by o 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: 2021-005				1		110	557	4.9	0.337		1					
Event: 38				2		111A	2014	5.3	0.251		2	111B	339	5.4	0.243	
Station: LB14				3		112	658	5.7	0.240		3					
Event Date (Local): 20/05/2021				4		113	730	6.2	0.601		4					
Analysis Date (Local): 21 May 2021				5		114	3051	6.5	1.030		5					
Analyst: KS				6		115	1035	6.9	1.623		6					
Standardization Date (Local): 21 May 2021				7		116	931	7.3	2.099		7					
KIO ₃ N: 0.018676				8		117	3040	7.7	2.370		8					
Standard Titer: 0.49053				9		118	3176	7.9	2.392		9					
Blank Titer: 0.00042				10		119	1472	8.1	2.763		10					
THIO N: 0.24218				11		120A	3118	8.3	3.038		11	120B	1402	8.3	3.043	
Sample Flask Water Seal? ☒ Yes				12		121	3025	8.3	3.043	3.446	12					
				13		122	2056	8.6	3.446	4.087	13					
Reagent Change? ☐ No				14		123	3067	8.5	4.105		14					
(Please circle reagent that was changed prior to sampling and standardization)				15		124	3068	9.5	6.797		15					
NOTE NEW BATCH IN LOG BOOK				16		125	3013	10.6	6.840		16					
				17		126	1418	10.8	6.874		17					
				18		127	1457	10.8	6.870		18					
110	111A	111B	112	113	114	115	116	117	118	119	120A	120B	121	122	123	
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	
2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	
Bot-10 m	1000 m	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	
bot 1	bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 11	bot 12	bot 13	bot 14	

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

124 OXY LB14 2021-005 30 m bot 15 125 OXY LB14 2021-005 20 m bot 16 126 OXY LB14 2021-005 10 m bot 17 127 OXY LB14 2021-005 5 m bot 18

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Water Properties Group**



Last Updated: December 2019

Water Properties Group									
Cruise and Analysis Information					OXY-1 Comments				
Cruise Number:	2021-005	1	Nisk ID	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)		
Event:	47	2		132	2089	4.7	0.531		
Station:	LC11	3		133	371	4.9	0.391		
Event Date (local):	21/05/2021	4		134	3009	5.5	0.224		
Analysis Date (local):	21 May 2021	5		135A	3100	5.8	0.232		
Analyst:	VS	6		136	2019	6.3	0.723		
Stratization Date (local):	21 May 2021	7		137	3000	6.6	1.034		
KIO ₃ N:	0.0118676	8		138	2027	7.0	1.569		
Standard Titer:	0.49053	9		139	3032	7.4	1.934		
Blank Titer:	0.00042	10		140	2047	7.8	2.593		
THIO N:	0.24218	11		141A	3072	7.9	2.796		
Sample Flask Water Seal?	Yes	12		142	3109	8.0	3.141		
Reagent Change?	No	13		143	505	8.3	3.162		
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	MnCl ₂	14		144	3049	8.1	4.233		
	NaI/NaOH	15		145	3057	8.7	6.192		
	H ₂ SO ₄	16		146	1429	8.4	6.433		
	KIO ₃	17		147	930	10.3	6.761		
	THIO	18		148	1409	10.5	6.844		
Notes:		19		149A	2032	10.6	6.890		
				150	3145	10.6	6.885		
OXY-2 Comments					OXY-2 Comments				
Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)					
1									
2									
3									
4	135B	2043	5.8	0.231					
5									
6									
7									
8									
9									
10	141B	3030	8.0	2.789					
11									
12									
13									
14									
15									
16									
17									
18	149B	3127	10.6	6.898					
19									
Sampled 8 fls					Sampled 8 fls				
2021-005 10 m bot 18					2021-005 10 m bot 18				
2021-005 5 m bot 19					2021-005 5 m bot 19				
2021-005 125 m bot 12					2021-005 125 m bot 12				
2021-005 100 m bot 13					2021-005 100 m bot 13				
2021-005 75 m bot 14					2021-005 75 m bot 14				
2021-005 175 m bot 10					2021-005 175 m bot 10				
2021-005 150 m bot 11					2021-005 150 m bot 11				
2021-005 125 m bot 12					2021-005 125 m bot 12				
2021-005 100 m bot 13					2021-005 100 m bot 13				
2021-005 75 m bot 14					2021-005 75 m bot 14				
2021-005 175 m bot 10					2021-005 175 m bot 10				
2021-005 150 m bot 11					2021-005 150 m bot 11				
2021-005 125 m bot 12					2021-005 125 m bot 12				
2021-005 100 m bot 13					2021-005 100 m bot 13				
2021-005 75 m bot 14					2021-005 75 m bot 14				
2021-005 175 m bot 10					2021-005 175 m bot 10				
2021-005 150 m bot 11					2021-005 150 m bot 11				
2021-005 125 m bot 12					2021-005 125 m bot 12				
2021-005 100 m bot 13					2021-005 100 m bot 13				
2021-005 75 m bot 14					2021-005 75 m bot 14				
2021-005 175 m bot 10					2021-005 175 m bot 10				
2021-005 150 m bot 11					2021-005 150 m bot 11				
2021-005 125 m bot 12					2021-005 125 m bot 12				
2021-005 100 m bot 13					2021-005 100 m bot 13				
2021-005 75 m bot 14					2021-005 75 m bot 14				
2021-005 175 m bot 10					2021-005 175 m bot 10				
2021-005 150 m bot 11					2021-005 150 m bot 11				

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: 2021-005			1		151	425	6.1	0.445		1					
Event: 49			2	✓	152	1465	6.3	0.646		2					
Station: LC09			3		153	690	6.5	1.030		3					
Event Date (Local): 21/05/2021			4		154	429	6.3	1.479		4					
Analysis Date (Local): 21 May 2021			5		155A	2087	4.2	1.797		5	155B	1378	7.3	1.794	
Analyst: KS			6		156	196	7.6	2.189		6					
Standardization Date (Local): 21 May 2021			7		157	933	7.7	2.319		7					
KIO ₃ N: 0.0118676			8		158	3008	8.0	2.464		8					
Standard Titer: 0.49053			9		159	1015	8.2	2.636		9					
Blank Titer: 0.00042			10		160	569	8.1	3.481		10					
THIO N: 0.24218			11		161A	3007	8.2	4.831		11	161B	2000	8.2	4.842	
Sample Flask Water Seal? Yes			12		162	1053	8.5	6.558		12					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization)			13							13					
MnCl ₂			14		164	2069	8.7	6.739		14					168 OXY
NaI/NaOH			15							15					170 OXY
H ₂ SO ₄			16		166	691	10.5	6.941	- Late E.P. Sample over-hydrated	16					LC09
KIO ₃			17							17					2021-005
THIO			18		168	2040	10.5	7.030		18					10 m
Notes:			19							19					5 m
			20		170	1019	10.1	7.031		20					bot 18
			21							21					bot 20

151 OXY LC09	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005
Bot-10 m	500 m	400 m	300 m	250 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	75 m	50 m	30 m	20 m
bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 11	bot 12	bot 14	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: 2021-005			1		173	94	7.1	1.664		1					
Event: 54			2		174	2075	7.4	1.966		2					
Station: LC08			3		175	2088	7.6	2.166		3					
Event Date (Local): 21/05/2021			4		176	650	7.7	2.353		4					
Analysis Date (Local): 22 May 2021			5		177	1470	7.9	2.889		5					
Analyst: KS			6		178	2090	8.1	3.668		6					
Standardization Date (Local): 21 May 2021			7		179A	438	8.2	5.172		7	179B	3070	8.2	5.175	
KIO ₃ N: 0.01186876			8		180	3108	8.8	6.038		8					
Standard Titer: 0.49053			9		181	1322	10.2	6.429		9					
Blank Titer: 0.0042			10		182	2086	10.7	6.945		10					
THIO N: 0.24218			11							11					
Sample Flask Water Seal? ☒ Yes			12		184	3020	10.9	6.990		12					
No			13							13					
Reagent Change? ☐ MnCl ₂			14		185	173		174		178		179A		179B	
☐ NaI/NaOH			15		OXY	OXY		OXY		OXY		OXY		OXY	
☐ H ₂ SO ₄			16		LC06	LC08		LC08		LC08		LC08		LC08	
NOTE NEW BATCH IN LOG BOOK			17		2021-005	2021-005		2021-005		2021-005		2021-005		2021-005	
☐ KIO ₃			18		Bot-10 m	Bot-10 m		175 m		150 m		50 m		50 m	
☐ THIO			19		bot 1	bot 1		bot 2		bot 3		bot 7		bot 7	
Notes:			20		184					bot 4		bot 8		bot 8	
			21		OXY					bot 5		bot 9		bot 9	
			22		LC08					bot 6		bot 10		bot 10	
			23		2021-005										
			24		5 m										
					bot 12										

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



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:	2021-005	1		185	425	17.7	1.746			-Titrated as part of event 54 by mistake.	1					
Event:	54	2		186	1465	7.9	1.982				2					
Station:	LC06	3		187A	690	8.2	5.246				3	187B	429	9.3	3.294	
Event Date (Local):	21/05/2021	4		188	2087	8.8	5.246				4					
Analysis Date (Local):	22 May 2021	5		189	1378	11.2	6.788				5					
Analyst:	K5	6		190	196	9.3	4.513				6					
Standardization Date (Local):	21 May 2021	7		191	933	11.4	6.847			-ED. 1ste. Bips in curve near infection point. Still late. Must check and adjust manually. Also looks like a misfire.	7					
KIO ₃ N:	0.0118676	8									8					
Standard Titer:	0.49053	9		186	187A		187B									
Blank Titer:	0.00042	10		OXY	OXY		OXY									
THIO N:	C.24218	11		LC06	LC06		LC06									
Sample Flask Water Seal?	Yes	12		2021-005	2021-005		2021-005									
	No	13		75 m bot 2	50 m bot 3		50 m bot 3									
Reagent Change?	MnCl ₂	14														
(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														
21 - Swallow.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 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:	2021-005	1		193	2089	8.1	2.381					1								
Event:	62	2		194	371	8.1	2.453					2								
Station:	LC04	3		195	3009	8.2	2.541					3								
Event Date (Local):	22/21/05/2021	4		196	3100	8.2	2.664					4								
Analysis Date (Local):	22 May 2021	5		197	2043	8.3	2.823					5								
Analyst:	KS	6		198	2019	8.7	3.600					6								
Stdization Date (Local):	21 May 2021	7										7								
KIO ₃ N:	0.0118676	8		200A	3000	8.6	3.789					8	200B	2027	8.6	3.788	B before A			
Standard Titer:	0.49053	9										9								
Blank Titer:	0.00042	10		202	3032	9.1	4.431					10								
THIO N:	0.24218	11										11								
Sample Flask Water Seal?	Yes	12		204	2047	10.9	7.563					12								
	No	13										13								
Reagent Change?	MnCl ₂	14		206	3072	11.0	7.630					14								
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH H ₂ SO ₄ KIO ₃ THIO	15		193								200A		200B		202		204		206
		16		OXY								OXY		OXY		OXY		OXY		OXY
		17		LC04								LC04		LC04		LC04		LC04		LC04
		18		2021-005								2021-005		2021-005		2021-005		2021-005		2021-005
		19		Bot-10 m								30 m		30 m		20 m		10 m		5 m
		20		bot 1								bot 8		bot 8		bot 10		bot 12		bot 14
		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.



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:	2021-005	1		209	3030	8.0	2.347				1					
Event:	65	2		210	3109	8.3	2.793				2					
Station:	LC02	3		211A	505	8.6	3.192				3	211B	3049	8.6	3.188	B before A
Event Date (Local):	22/21/05/2021	4		212	3057	8.7	3.482				4					
Analysis Date (Local):	22 May 2021	5		213	1429	9.4	4.778				5					
Analyst:	KS	6		214	930	9.1	4.349				6					
Stratization Date (Local):	21 May 2021	7		215	1409	10.9	7.530				7					
KIO ₃ N:	0.0118676	8														
Standard Titer:	0.99053	9		209	210						214	215				
Blank Titer:	0.00042	10		OXY	OXY						OXY	OXY				
THIO N:	0.24218	11		LC02	LC02						LC02	LC02				
Sample Flask Water Seal?	Yes	12		2021-005	2021-005						2021-005	2021-005				
	No	13		Bot-10 m	75 m						10 m	5 m				
Reagent Change?	MnCl ₂	14		bot 1	bot 2						bot 6	bot 7				
(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 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:	2021-005			1		217	2016	8.2	2.622		1					
Event:	66			2		218	3173	8.3	2.820		2					
Station:	LC01			3		219A	3116	8.6	3.370		3	219B	3090	8.6	3.364	B before A
Event Date (Local):	22/05/2021			4		220	2015	8.8	3.364 3.947		4					
Analysis Date (Local):	22 May 2021			5		221	3036	9.1	4.323		5					
Analyst:	KS			6		222	1422	10.5	7.090		6					
Stdization Date (Local):	21 May 2021			7		223	712	10.6	6.995		7					
KIO ₃ N:	0.0118676			8							8					
Standard Titer:	0.49653			9		217	218	219A	219B	220	221	222	223			
Blank Titer:	0.00642			10		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
THIO N:	0.24218			11		LC01	LC01	LC01	LC01	LC01	LC01	LC01	LC01			
Sample Flask Water Seal?	☒ Yes			12		2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005			
	No			13		Bot-10 m	75 m	50 m	50 m	30 m	20 m	10 m	5 m			
Reagent Change?	MnCl ₂			14		bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7			
(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												
20 - Shark.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 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:	2021-005	1		224	1416	8.9	4.008				1					
Event:	68	2		225	2094	9.1	4.398				2					
Station:	LD01	3		226A	3054	10.1	6.629				3	226B	2025	10.1	6.630	
Event Date (local):	22/05/2021	4		227	1408	10.2	6.840				4					
Analysis Date (local):	22 May 2021	5									5					
Analyst:	KS	6									6					
Standardization Date (local):	21 May 2021	7									7					
KIO ₃ N:	0.0118676	8		224							8					
Standard Titer:	0.49053	9		OXY							9					
Blank Titer:	0.00642	10		LD01							10					
THIO N:	0.24218	11		2021-005							11					
Sample Flask Water Seal?	Yes	12		Bot-10 m							12					
	No	13		bot 1							13					
Reagent Change?	MnCl ₂	14									14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15									15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16									16					
	KIO ₃	17									17					
	THIO	18									18					
Notes:		19									19					
		20									20					
		21									21					
		22									22					
		23									23					
		24									24					

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:	2021-005	1		228	458	8.5	3.112				1					
Event:	71	2		229	1442	8.6	3.297				2					
Station:	LD02	3		230A	3038	9.2	4.509				3	230B	3162	9.2	4.508	
Event Date (Local):	22/05/2021	4		231	3094	10.0	6.199				4					
Analysis Date (Local):	22 May 2021	5		232	3143	10.2	6.650				5					
Analyst:	KS	6									6					
Stratization Date (Local):	21 May 2021	7									7					
KIO ₃ N:	0.0118676	8		228		229		231		230A		230B		232		
Standard Titer:	0.49653	9		OXY		OXY		OXY		OXY		OXY		OXY		
Blank Titer:	0.00042	10		LD02		LD02		LD02		LD02		LD02		LD02		
THIO N:	0.24218	11		2021-005		2021-005		2021-005		2021-005		2021-005		2021-005		
Sample Flask Water Seal?	Yes	12		Bot-10 m		30 m		10 m		20 m		20 m		5 m		
	No	13		bot 1		bot 2		bot 4		bot 3		bot 3		bot 5		
Reagent Change?	MnCl ₂	14									14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15									15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16									16					
	KIO ₃	17									17					
	THIO	18									18					
Notes:		19									19					
		20									20					
		21									21					
		22									22					
		23									23					
		24									24					

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			
Cruise Number:	2021-005		
Event:	76		
Station:	LD04		
Event Date (Local):	22/05/2021		
Analysis Date (Local):	22 May 2021		
Analyst:	KS		
Standardization Date (Local):	21 May 2021		
KIO ₃ N:	0.0118676		
Standard Titer:	0.49053		
Blank Titer:	0.00042		
THIO N:	0.24218		
Sample Flask Water Seal?	Yes No		
Reagent Change?	MnCl₂ (Please circle reagent that was changed prior to sampling and standardization) NaI/NaOH H₂SO₄ KIO₃ THIO NOTE NEW BATCH IN LOG BOOK		
Notes:			
20 - Shark.xlsx			

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
1		233A	3144	8.3	2.953	-E.P. hole due to noisy curve. OTV	1	233B	3121	8.3	2.953	bubbles from reagent
2		234	3192	8.5	3.316		2					
3		235	3083	9.3	4.690		3					
4		236	3164	10.2	6.661		4					
5		237	612	10.5	7.028		5					
6							6					
7		233A	233B				7					
8		OXY	OXY				8					
9		LD04	LD04				9					
10		2021-005	2021-005				10					
11		Bot-10 m	Bot-10 m				11					
12		bot 1	bot 1				12					
13							13					
14							14					
15							15					
16							16					
17							17					
18							18					
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

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:	2021-005			1		238	456	17.2	1.628		1					
Event:	81			2		239	2098	17.6	1.647		2					
Station:	LD06			3		240	611	17.9	2.148		3					
Event Date (Local):	22/05/2021			4		241	3029	8.1	3.426		4					
Analysis Date (Local):	22 May 2021			5		242	2007	8.6	4.270		5					
Analyst:	KS			6		243	3041	9.9	6.016		6					
Standardization Date (Local):	21 May 2021			7		244	3155	11.2	7.051		7					
KIO ₃ N:	0.0118676			8		245A	3120	11.3	7.039		8	245B	622	11.3	7.037	
Standard Titer:	0.49053			9							9					
Blank Titer:	0.00042			10		238							245A			
THIO N:	0.24218			11		OXY							OXY			
Sample Flask Water Seal?	☒ Yes			12		LD06							LD06			
	No			13		2021-005							2021-005			
Reagent Change?	MnCl ₂			14		Bot-10 m							5 m			
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			15		OXY							OXY			
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16		LD06							LD06			
	KIO ₃			17		2021-005							2021-005			
	THIO			18		100 m							30 m			
Notes:				19		bot 2							20 m			
				20									LD06			
				21									10 m			
				22									bot 7			
				23									bot 8			
				24									bot 8			

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

17 - Loch Ness.xlsx

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:	2021-005			1		246	2089	5.9	0.295		1					
Event:	84			2		247	371	5.9	0.303		2					
Station:	LD08			3		248A	3009	6.3	0.534		3	248B	3100	6.3	0.533	
Event Date (Local):	22/05/2021			4		249	2043	6.5	0.963		4					
Analysis Date (Local):	23 May 2021			5		250	2019	6.9	1.399		5					
Analyst:	KS			6		251	3000	1.1	1.636		6					
Stratization Date (Local):	21 May 2021			7		252	2027	1.5	2.027		7					
KIO ₃ N:	0.0118676			8		253	3032	1.1	2.348		8					
Standard Titer:	0.49053			9		254	2047	1.9	2.771		9					
Blank Titer:	0.00042			10		255	3072	8.0	3.074		10					
THIO N:	0.24218			11		256	3030	8.0	3.777		11					
Sample Flask Water Seal?	☒ Yes			12		257	3109	8.2	4.941		12					
	No			13		258	505	8.5	6.608		13					
Reagent Change?	MnCl ₂			14		259A	3049	8.5	6.633		14	259B	3057	8.5	6.630	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			15		260	1429	9.9	6.768		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16		261	930	10.2	7.466		16					
	KIO ₃			17		262	1409	10.2	7.425		17					
	THIO			18							18					

268
OXY
LD08

2021-005
Bot-10 m
bot 1

246
OXY
LD08

2021-005
Bot-10 m
bot 1

247
OXY
LD08

2021-005
750 m
bot 2

248A
OXY
LD08

2021-005
500 m
bot 3

248B
OXY
LD08

2021-005
500 m
bot 3

249
OXY
LD08

2021-005
400 m
bot 4

250
OXY
LD08

2021-005
300 m
bot 5

251
OXY
LD08

2021-005
250 m
bot 6

252
OXY
LD08

2021-005
200 m
bot 7

253
OXY
LD08

2021-005
175 m
bot 8

254
OXY
LD08

2021-005
150 m
bot 9

255
OXY
LD08

2021-005
125 m
bot 10

256
OXY
LD08

2021-005
100 m
bot 11

257
OXY
LD08

2021-005
75 m
bot 12

258
OXY
LD08

2021-005
50 m
bot 13

259A
OXY
LD08

2021-005
30 m
bot 14

259B
OXY
LD08

2021-005
30 m
bot 14

(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
Cruise Number: 2021-005											1		268	2016	4.1	1.098	Analyzed as part of event 84.
Event: 94											2		269	3173	4.5	0.681	
Station: LD11											3		270	3116	4.9	0.371	
Event Date (Local): 23 May 2021											4		271	3090	5.4	0.227	
Analysis Date (Local): 23 May 2021											5		272A	2015	6.0	0.243	
Analyst: KS											6		273	1422	6.3	0.699	
Stdization Date (Local): 21 May 2021											7		274	712	6.6	1.132	
KIO ₃ N: 0.0118676											8		275	1416	7.1	1.745	Runaway, EP hole. OT ✓.
Standard Titer: 0.49053											9		276	2094	7.5	2.075	
Blank Titer: 0.00042											10		277A	3054	7.8	2.651	
THIO N: 0.24218											11		278	1408	8.0	2.650 2.763	
Sample Flask Water Seal? Yes											12		279	3010	8.1	3.681	
											13		280	458	7.9	3.973	
Reagent Change? MnCl ₂											14		281	1442	8.1	4.744	
(Please circle reagent that was changed prior to sampling and standardization)											15		282	3038	8.3	6.104	
NOTE NEW BATCH IN LOG BOOK											16		283	3162	8.5	6.585	
											17		284	3094	10.5	6.681	
											18		285	3143	10.8	6.714	
											19		286	3175	10.9	6.710	
Notes:											20		287A	3144	10.9	6.716	

Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5	272B	3036	5.9	0.251	B before A sampled
6					
7					
8					
9					
10	277B	2025	7.9	2.650	Very rounded curve, OT was ok
11	284		285		
12	OXY LD11				
13	2021-005		2021-005		
14	30 m		20 m		
15	bot 17		bot 18		
16					
17					
18					
19					
20	287B	3121	10.9	6.718	B before A

270	271	272A	272B	273	274	275	276	277A	277B	278	279	280	281	282	283
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11
2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005
1250 m	1000 m	750 m	750 m	500 m	400 m	300 m	250 m	200 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m
bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10	bot 11	bot 12	bot 13	bot 14	bot 15	bot 1

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Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1	OXY-1	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2	OXY-2	OXY-2 Comments
Cruise Number: 2021-005				1		302	425	6.1	0.493	- odd curve. OT curve way	1					
Event: 104				2		303	1465				2					
Station: LG06				3		304A	690	6.3	0.596	- another odd way curve. Must investigate issue. Abort run	3	304B	429	6.4	0.592	
Event Date (Local): 23 May 2021				4		305	2087	6.3	1.049		4					
Analysis Date (Local): 23 May 2021				5		306	1378	6.9	1.586		5					
Analyst: KS				6		307	196	7.1	1.987		6					
Stratification Date (Local): 23 May 2021				7		308	933	7.6	2.471	UV lamp required replacement	7					
KIO ₃ N: 0.018676				8		309	3008	7.7	2.558	2 hr warm-up and restarted this run. Excellent results with new lamp. Nice clean curves	8					
Standard Titer: 0.49066				9		310	1015	7.9	2.844		9					
Blank Titer: 0.05070				10		311	569	7.9	3.570		10					
THIO N: 0.24223				11		312	3007	8.0	4.428		11					
Sample Flask Water Seal? Yes				12		313	2000	8.3	5.792		12					
				13		314	1053	8.5	6.519		13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				14		315A	2069	9.6	6.980		14	315B	691	9.6	6.976	
				15		316	2040	9.7	-99	- removed dosing tip mid-titration	15					
				16		317	1019	9.9	7.074	Oh my. Sample lost.	16					
				17		318	94	10.1	7.070	TOP AMP BREAKING	17					
				18							18					
302 OXY LG06 2021-005 Bot-10 m 500 m	304A OXY LG06 2021-005 Bot-10 m 500 m	304B OXY LG06 2021-005 Bot-10 m 500 m	305 OXY LG06 2021-005 Bot-10 m 400 m	306 OXY LG06 2021-005 Bot-10 m 300 m	307 OXY LG06 2021-005 Bot-10 m 250 m	308 OXY LG06 2021-005 Bot-10 m 200 m	309 OXY LG06 2021-005 Bot-10 m 175 m	310 OXY LG06 2021-005 Bot-10 m 150 m	311 OXY LG06 2021-005 Bot-10 m 125 m	312 OXY LG06 2021-005 Bot-10 m 100 m	313 OXY LG06 2021-005 Bot-10 m 75 m	314 OXY LG06 2021-005 Bot-10 m 50 m	315A OXY LG06 2021-005 Bot-10 m 30 m	315B OXY LG06 2021-005 Bot-10 m 30 m	316 OXY LG06 2021-005 Bot-10 m 20 m	

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.

317 OXY LG06 2021-005 10 m bot 16
318 OXY LG06 2021-005 5 m bot 17

Dissolved Oxygen Analysis Log Sheet

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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:	2021-005			1		320	2016	10.7	2.279	7.7	1					
Event:	106			2		321	3173	10.7	2.511	7.9	2					
Station:	LG04			3		322	3116	7.9	2.782		3					
Event Date (Local):	23 May 2021			4		323	3090	7.7	3.803		4					
Analysis Date (Local):	24 May 2021			5		324	2015	7.8	3.710		5					
Analyst:	KS			6		325A	3036	8.1	5.015		6	325B	1422	8.1	5.006	
Standardization Date (Local):	23 May 2021			7		326	712	9.7	6.719		7					
KIO ₃ N:	0.0118676			8		327	1416	9.8	7.191		8					
Standard Titer:	0.49066			9		328	2094	10.7	7.555		9					
Blank Titer:	0.00070			10		320	321		322	323	324	325A	325B	326	327	328
THIO N:	0.24223			11		OXY	OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Sample Flask Water Seal?	Yes			12		LG04	LG04		LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04
Reagent Change?	No			13		2021-005	2021-005		2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂			14		Bot-10 m	125 m		100 m	75 m	50 m	30 m	30 m	20 m	10 m	5 m
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH			15		bot 1	bot 2		bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9
	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.

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group



Cruise and Analysis Information				OXY-1 Comments										OXY-2 Comments					
Cruise Number:	2021-005	Nisk ID	1	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)	
Event:	110	2			329	3054	7.9	1.422						1					
Station:	LG02	3			330A	2025	8.1	1.735						2	330B	1408	8.1	1.729	
Event Date (Local):	23 May 2021	4			331	3010	8.2	4.048						3					
Analysis Date (Local):	24 May 2021	5			333	458	8.5	3.133						4					
Analyst:	KS	6												5					
Stdization Date (Local):	23 May 2021	7			335	1442	8.9	4.882						6					
KIO ₃ N:	0.0118676	8												7					
Standard Titer:	0.49066	9			337	3038	11.3	7.736						8					
Blank Titer:	0.00070	10												9					
THIO N:	0.24223	11			339	3162	11.4	7.927						10					
Sample Flask Water Seal?	Yes	12			329	330A								11					
Reagent Change?	No	13			OXY	OXY								337	OXY	339			
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂	14			LG02	LG02								OXY	LG02	OXY			
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15			2021-005	2021-005								2021-005	2021-005	2021-005			
	H ₂ SO ₄	16			Bot-10 m	75 m								10 m	5 m				
	KIO ₃	17			bot 1	bot 2								bot 9	bot 11				
	THIO	18																	
Notes:		19												18					
		20												19					
		21												20					
		22												21					
		23												22					
		24												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.



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)		
1		342	3094	8.4	2.640						1						
2		343A	3143	8.7	3.507						2	343B	3175	8.7	3.502		
3		344	3144	10.2	7.025						3						
4		345	3121	10.9	8.543						4						
5		346	3192	10.9	8.557						5						
6		342	343B			343A		344		345		346					
7		OXY	OXY			OXY		OXY		OXY		OXY					
8		LG01	LG01			LG01		LG01		LG01		LG01					
9		2021-005	2021-005			2021-005		2021-005		2021-005		2021-005					
10		Bot-10 m	30 m			30 m		20 m		10 m		5 m					
11		bot 1	bot 2			bot 2		bot 3		bot 4		bot 5					
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Reagent Change? ☒ Yes ☐ No

(Please circle reagent that was changed prior to sampling and standardization)

NOTE NEW BATCH IN LOG BOOK

MnCl₂
NaI/NaOH
H₂SO₄
KI₂
THIO

Notes:

20 - Shark.xlsx

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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Water Properties Group										
Cruise and Analysis Information					Nisk ID	Sample ID	Flask ID	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
Cruise Number:	2021-005				1	362	425	4.0	1.291	
Event:	140				2	363A	1465	3.4	0.544	
Station:	LBP7				3	364	429	5.4	0.337	
Event Date (Local):	25 May 2021				4	365	2087	5.4	0.220	
Analysis Date (Local):	25 May 2021				5	366	1378	5.8	0.259	
Analyst:	KS				6	367	196	6.1	0.713	
Standardization Date (Local):	25 May 2021				7	368	933	6.4	1.064	
KIO ₃ N:	0.0118676				8	369	3008	6.8	1.662	
Standard Titer:	0.49644				9	370	1015	7.1	1.919	
Blank Titer:	0.00070				10	371A	569	7.4	2.436	Runaway titration. OT ✓
THIO N:	0.24223				11	372	2000	7.5	2.677	
Sample Flask Water Seal?	☒ Yes				12	373	1053	7.5	3.630	
	No				13	374	2069	7.9	3.936	
Reagent Change?	☒ MnCl ₂				14	375	691	8.1	4.416	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH				15	376	2040	8.4	6.602	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄				16	377	1019	8.9	6.519	
	KIO ₃				17	378	94	10.3	6.720	
	THIO				18	379A	2075	10.7	6.716	small bubble from reagent
Notes:					19	380	650	10.6	7.435	
					20	381	1470	10.6	7.492	
					21					

Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2	363B	690	4.7	0.535	
3					
4					
5					
6					
7					
8					
9					
10	371B	3007	7.4	2.433	
11					
12					
13					
14					
15					
16					
17					
18	379B	2088	10.7	6.715	big bubble from reagents #52090
19					6.762
20					
21					

377
OXY
LBP7

378
OXY
LBP7

379A
OXY
LBP7

2021-005
50 m
bot 16

2021-005
30 m
bot 17

2021-005
20 m
bot 18

379B
OXY
LBP7

380
OXY
LBP7

381
OXY
LBP7

2021-005
20 m
bot 18

2021-005
10 m
bot 19

2021-005
5 m
bot 20

Reagent Change?
(Please circle reagent that was changed prior to sampling and standardization)
NOTE NEW BATCH IN LOG BOOK

THIO

Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information							
Cruise Number:	2021-005	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)
Event:	144	1		383	456	4.8	0.358
Station:	LBP5	2		384	2098	4.8	0.370
Event Date (Local):	25 May 2021	3		385	611	5.2	0.252
Analysis Date (Local):	25 May 2021	4		386	3029	5.7	0.240
Analyst:	K5	5		387	2007	6.2	0.736
Standardization Date (Local):	25 May 2021	6		388A	3041	6.2	0.953
KIO ₃ N:	0.0118676	7		389	3120	6.5	1.374
Standard Titer:	0.49844	8		390	622	6.7	1.546
Blank Titer:	0.00070	9		391	3044	6.9	1.787
THIO N:	0.24223	10		392	3101	7.1	1.936
Sample Flask Water Seal?	Yes	11		393	3078	7.2	2.225
Reagent Change?	No	12		394	3048	7.4	2.533
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂	13		395	3131	7.6	2.619
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	14		396	3079	7.9	2.824
	H ₂ SO ₄	15		397	3142	8.1	3.275
	KIO ₃	16		398A	2065	8.5	4.306
	THIO	17		399	3158	8.3	4.974
Notes:		18		400	3005	9.5	7.521
		19		401	2049	9.8	8.097
		20					
		21					

OXY-1 Comments							
Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments		
1							
2							
3							
4							
5							
6	388B	3155	6.2	0.948			
7							
8							
9							
10							
11							
12							
13							
14							
15							
16	398B	3133	8.5	4.309			
17							
18							
19							
20							
21							

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383	384	385	386	387	388A	388B	389	390	391	392	393	394	395	396	397
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5
2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005
Bot-10 m	1250 m	1000 m	750 m	500 m	400 m	400 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m
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 12	bot 13	bot 14	bot 15



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:	2021-005	1		402	2016	7.2	2.041				1					
Event:	149	2		403	3173	7.2	2.075				2					
Station:	LBP3	3		404	3116	7.3	2.170				3					
Event Date (Local):	May 25, 2021	4		405	3090	7.5	2.516				4					
Analysis Date (Local):	25 May 2021	5		406	2015	7.7	2.7				5					
Analyst:	KS	6		407	3036	8.1	3.146				6					
Stratization Date (Local):	25 May 2021	7									7					
KIO ₃ N:	0.0118676	8		409	1422	8.3	3.645				8					
Standard Titer:	0.49044	9									9					
Blank Titer:	0.00070	10		411	712	9.0	4.940				10					
THIO N:	0.24223	11									11					
Sample Flask Water Seal?	Yes	12		413	1416	9.1	5.183				12					
Reagent Change?	No	13									13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	MnCl ₂ NaI/NaOH H ₂ SO ₄ KIO ₃ THIO	14		415A	2094	10.3	7.872	→			14		415B	3054	10.4	7.868
Notes:		15		402	OXY						15		415A	OXY		
		16		403	OXY						16		411	OXY		
		17		2021-005	LBP3						17		413	OXY		
		18		2021-005	LBP3						18		2021-005	LBP3		
		19		2021-005	LBP3						19		2021-005	LBP3		
		20		2021-005	LBP3						20		2021-005	LBP3		
		21		2021-005	LBP3						21		2021-005	LBP3		
		22		2021-005	LBP3						22		2021-005	LBP3		
		23		2021-005	LBP3						23		2021-005	LBP3		
		24		2021-005	LBP3						24		2021-005	LBP3		

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.

Last Updated: December 2019



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Cruise and Analysis Information										Nisk ID	Nisk Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	
Cruise Number:	2021-005									1	419	2089	3.9	1.286		
Event:	162									2	420	371	4.3	0.640		
Station:	CS00									3	421	3009	4.6	0.578		
Event Date (Local):	26 May 2021									4	422	3100	5.0	0.246		
Analysis Date (Local):	26 May 2021									5	423A	2043	5.5	0.249	Purposely left dose tip in air & titrated	
Analyst:	KS									6	424	3000	5.9	0.729	Practice over-titrate for Sullivan	
Standardization Date (Local):	25 May 2021									7	425	2027	6.2	1.225		
KIO ₃ N:	0.0118676									8	426	3032	6.5	1.796		
Standard Titer:	0.49044									9	427	2047	7.0	6.882	vent was open	
Blank Titer:	0.00670									10	428	3072	7.1	2.721		
THIO N:	0.24223									11	429	3030	7.3	3.721	2x over-titrate; stir-plate-like curves	
Sample Flask Water Seal?	Yes									12	430A	3109	7.3	3.721		
	No									13	431	3049	7.6	4.429		
Reagent Change?	MnCl ₂									14	432	3057	7.8	4.852		
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH									15	433	1429	7.8	6.004		
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄									16	434	930	8.2	6.396		
	KIO ₃									17	435	1409	9.7	6.923	top and mp lanky	
	THIO									18	436A	2032	10.6	6.884		
421										19	437	3145	10.7	6.883		
OXY										20	438	2092	10.7	6.891		
CS00																
2021-005																
1250 m	420	OXY	423A	423B	424	425	426	427	428	429	430A	430B	431	432	433	434
bot 3	CS00	OXY	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00
bot 1	2021-005	2021-005	2021-005	2021-00	2021-00	2021-00	2021-005	2021-00	2021-005	2021-00	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005
bot 2	1000 m	750 m	750 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	

Last Updated: December 2015

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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:	2021-005		1		466	425	7.7	4.320		1					
Event:	173		2		467	1465	7.9	4.945		2					
Station:	CS04		3		468	690	8.1	5.284		3					
Event Date (Local):	27 May 2021		4		469	429	9.0	6.327		4					
Analysis Date (Local):	27 May 2021		5		470A	2087	9.9	6.717		5	470B	1378	9.9	6.715	
Analyst:	KS		6		471	196	9.9	6.717		6					
Standardization Date (Local):	May 25, 2021		7		472	933	9.9	—	Over hydrate bot not using OT -	7					0.0483 ^{mL} (20°C)
KIO ₃ N:	0.0118676		8		473	3008	9.9	6.730	Exn. Must recalc manually.	8					
Standard Titer:	0.49044		9						Runaway titration	9					
Blank Titer:	0.00070		10		466										
THIO N:	0.24223		11		OXY										
Sample Flask Water Seal?	Yes		12		CS04										
Reagent Change?	No		13		2021-005										
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂		14		Bot-5 m										
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH		15		bot 1										
	H ₂ SO ₄		16							16					
	KIO ₃		17							17					
	THIO		18							18					
Notes:			19							19					
			20							20					
			21							21					
			22							22					
			23							23					
			24							24					

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



Cruise and Analysis Information				Nisk ID				Nisk ID				Nisk ID				Nisk ID			
Cruise Number:	2021-005	1	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	2	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	3	Sample ID	Flask 3	Draw Temp 3 (°C)	OXY-3 (mL/L)	OXY-3 Comments
Event:	184	2	483	2089	8.1	5.259		4	485A	3009	8.2	5.335		5	487	2019	8.4	6.208	
Station:	CS06	3	484	371	8.2	5.284		6	488	3000	9.5	6.593		7	489	2027	9.6	6.611	
Event Date (Local):	27 May 2021	4	485A	3009	8.2	5.335		8	489	2027	9.6	6.611							
Analysis Date (Local):	28 May 2021	5	486	2043	8.6	5.882													
Analyst:	KS	6	487	2019	8.4	6.208													
Standardization Date (Local):	28 May 2021	7	488	3000	9.5	6.593													
KIO ₃ N:	0.0118676	8	489	2027	9.6	6.611													
Standard Titer:	0.49046	9	483	2089	8.1	5.259													
Blank Titer:	0.00065	10	484	371	8.2	5.284													
THIO N:	0.24228	11	485A	3009	8.2	5.335													
Sample Flask Water Seal?	Yes	12	486	2043	8.6	5.882													
Reagent Change?	No	13	487	2019	8.4	6.208													
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	488	3000	9.5	6.593													
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15	489	2027	9.6	6.611													
	KIO ₃	16																	
	THIO	17																	
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.

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:	2021-005	1			497		2047	6.9	1.855							1											
Event:	192	2			498		3072	6.9	1.865							2											
Station:	CS09	3			499		3030	6.9	1.872							3											
Event Date (Local):	28 May 2021	4			500		3109	6.9	1.980							4											
Analysis Date (Local):	28 May 2021	5			501		505	7.2	2.290							5											
Analyst:	KS	6			502		3049	7.4	3.003							6											
Stdization Date (Local):	28 May 2021	7			503		3057	7.9	4.341							7											
KIO ₃ N:	0.0118676	8			504A		1429	8.3	4.970							8	504B	930	8.3	4.969							
Standard Titer:	0.49046	9														9											
Blank Titer:	0.00065	10			506		1409	8.5	5.882							10											
THIO N:	0.24228	11														11											
Sample Flask	Yes	12			508		2032	9.0	6.256							12											
Water Seal?	No	13														13											
Reagent Change?	MnCl ₂	14			510		3127	9.7	6.953							14											
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15														15											
NOTE NEW BATCH IN LOG BOOK	H₂SO₄ KIO₃ THIO	16			512		3145	9.9	7.014							16											
Notes:		17			497		498		499		500		501		502		503		504A		504B		506		508		510
		18			OXY		OXY		OXY		OXY		OXY		OXY		OXY		OXY		OXY		OXY		OXY		OXY
		19			CS09		CS09		CS09		CS09		CS09		CS09		CS09		CS09		CS09		CS09		CS09		CS09
		20			2021-005		2021-005		2021-005		2021-005		2021-005		2021-005		2021-005		2021-005		2021-005		2021-005		2021-005		2021-005
		21			Bot-5 m		Bot-10 m		175 m		150 m		125 m		100 m		75 m		50 m		50 m		30 m		20 m		10 m
		22			bot 1		bot 2		bot 3		bot 4		bot 5		bot 6		bot 7		bot 8		bot 8		bot 10		bot 12		bot 14
		23															23										
	24															24											

Notes: 16 - Bender.xlsx

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments									
Cruise Number:	2021-005	1		528	456	8.4	4.667				1														
Event:	202	2		529	2098	8.5	5.042				2														
Station:	JS01	3		530	611	8.5	5.053				3														
Event Date (Local):	28.05.21	4		531A	3029	8.6	5.139				4	531B	2007	8.6	5.161	✓									
Analysis Date (Local):	29 May 2021	5		532	3041	8.6	5.184				5														
Analyst:	KS	6		533A	3155	8.7	5.287				6	533B	3120	8.7	5.292										
Stratization Date (Local):	28 May 2021	7		534	622	8.8	5.339				7														
KIO ₃ N:	0.0118676	8		535	3044	8.8	5.348				8														
Standard Titer:	0.49046	9		536A	3101	8.9	5.465				9	536B	3078	8.9	5.460										
Blank Titer:	0.00065	10		537	3048	9.3	5.641				10														
THIO N:	0.24228	11		538	3131	9.3	5.678				11														
Sample Flask Water Seal?	Yes	12		528	OXY	529	OXY	530	OXY	531A	OXY	531B	OXY	532	OXY	533A	OXY	533B	OXY	534	OXY	535	OXY	536A	OXY
Reagent Change?	No	13		JS01	2021-005	JS01	2021-005	JS01	2021-005	JS01	2021-005	JS01	2021-005	JS01	2021-005	JS01	2021-005	JS01	2021-005	JS01	2021-005	JS01	2021-005	JS01	2021-005
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		2021-005	200 m	150 m	100 m	100 m	75 m	50 m	50 m	30 m	20 m	10 m											
NOTE NEW BATCH IN LOG BOOK	KIO ₃	15		bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 6	bot 6	bot 7	bot 8	bot 9										
	THIO	16		536B	537	538					18														
Notes:		19		OXY	OXY	OXY					19														
		20		JS01	JS01	JS01					20														
		21		2021-005	2021-005	2021-005					21														
		22		10 m	5 m	0 m					22														
		23		bot 9	bot 10	bot 11					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

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:	2021-005	1		547	425	9.3	3.417				1					
Event:	211	2		548	1465	9.1	4.012				2					
Station:	12	3		549	690	9.2	3.679				3					
Event Date (Local):	29 May 2021	4		550	429	9.3	3.740				4					
Analysis Date (Local):	29 May 2021	5		551	2087	9.8	4.145				5					
Analyst:	KS	6		552A	1378	10.0	4.337				6	552B	196	10.0	4.333	
Standardization Date (Local):	28 May 2021	7		553	933	10.3	4.701				7					
KIO ₃ N:	0.0118676	8		554	3008	11.5	6.235				8					
Standard Titer:	0.49046	9		555	1015	10.3	6.877				9					
Blank Titer:	0.00065	10		556	569	13.9	7.498				10					
THIO N:	0.24228	11		557	3007	14.5	7.686				11					
Sample Flask Water Seal?	Yes	12									12					
Reagent Change?	No	13		547	548	549	550	551	552A	552B	553	554	555	556	557	
(Please circle reagent that was changed prior to sampling and standardization)	MinCl	14		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	
	KIO ₃	16		Bot-10 m	200 m	100 m	75 m	50 m	40 m	40 m	30 m	20 m	10 m	5 m	0 m	
	THIO	17		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	
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.

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:	2021-005	1		578	2089	9.1	3.697					1					
Event:	232	2		579	371	9.2	3.587					2					
Station:	27	3		580	3009	8.9	4.424					3					
Event Date (Local):	30 May 2021	4		581	3100	9.0	3.899					4					
Analysis Date (Local):	30 May 2021	5		582	2043	9.0	3.976					5					
Analyst:	KS	6		583A	2019	9.0	3.898	→				6	583B	3000	9.0	3.886	
Stratization Date (Local):	28 May 2021	7		584	2027	9.2	3.862					7					
KIO ₃ N:	0.0118676	8		585	3032	10.2	4.835					8					
Standard Titer:	0.99046	9		586	2047	11.6	6.226					9					
Blank Titer:	0.00065	10		587	3072	12.3	6.572					10					
THIO N:	0.24228	11		588	3030	13.8	6.995	- Runway. EP hole. OT				11					
Sample Flask Water Seal?	Yes	12		578	579	580	581	582	583A	583B	584	585	586	587	588		
Reagent Change?	No	13		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	14		27	27	27	27	27	27	27	27	27	27	27	27		
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005		
	KIO ₃	16		Bot-10 m	200 m	100 m	75 m	50 m	40 m	40 m	30 m	20 m	10 m	5 m	0 m		
	THIO	17		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11		
18																	
19																	
20																	
21																	
22																	
23																	
24																	

16 - Bender.xlsx

Notes:

16 - Bender.xlsx

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments		Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2021-005			1		597	505	12.4	3.450			1						
Event:	238			2		598	3049	11.5	3.681			2						
Station:	42			3		599	3057	10.3	4.416			3						
Event Date (Local):	30.05.21			4		600	1429	9.9	4.343			4						
Analysis Date (Local):	30 May 2021			5		601	930	9.5	4.016			5						
Analyst:	KS			6		602A	1409	9.0	4.046			6	602B	2032	9.0	4.051		
Stratification Date (Local):	28 May 2021			7		603	3127	9.1	4.395			7						
KIO ₃ N:	0.0118676			8		604	3145	8.8	4.739			8						
Standard Titer:	0.49046			9		605	2092	8.8	5.093			9						
Blank Titer:	0.00065			10		606	3074	9.1	5.843			10						
THIO N:	0.24226			11		607	471	9.1	6.553			11						
Sample Flask Water Seal?	Yes			12		597	598	599	600	601	602A	602B	603	604	605	606	607	
Reagent Change?	No			13		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂			14		42	42	42	42	42	42	42	42	42	42	42	42	
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH			15		2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	2021-005	
	H ₂ SO ₄			16		Bot-10 m	200 m	100 m	75 m	50 m	40 m	40 m	30 m	20 m	10 m	5 m	0 m	
	KIO ₃			17		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	
	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.