

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2015



00201

swallow

samples sat after
1st shake for 3-4 hrs

before 2nd shake

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12	1			1	708	9.9	2.747		1					
Event:	2	2			3	3192	9.7	2.938		2	3	3040	9.7	2.955	
Station:	SOG-N2-C	3			5	3013	9.7	3.051		3					
Event Date (Local):	July 5/16	4			7	3025	9.7	3.019		4					
Analysis Date (Local):	06 July 2016	5			9	557	9.7	3.511		5					
Analyst:	Tamara	6			11	3093	9.6	3.686		6					
Stdization Date (Local):	06 July 2016	7			13	3038	9.6	3.757		7	13	575	9.6	3.758	
KIO ₃ N:	0.020874	8			15	611	10.7	3.995		8					
Standard Titer:	0.5159837	9			17	510	10.7	4.158		9					
Blank Titer:	0.0004925	10			19	528	11.9	4.552		10					
THIO N:	0.234542	11			21	3053	13.1	4.959		11					
Sample Flask	Yes	12			23	3034	17.3			12					forgot to write down i
Water Seal?	No	13								13					
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15								15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16								16					
	KIO ₃	17								17					
	THIO	18								18					
Notes:	none	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

HAKI

00701

Last Updated: July 2015



Cruise and Analysis Information																
Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments			
1			1	2098	6.9	1.802		1								
2			3	586	7.7	2.908		2								
3			5	2093	8.4	3.497		3	5	3043	8.4	3.508				
4			7	3162	9.1	4.234		4								
5			11	3096	11.4	5.398		5								
6			13	3175	13.0	6.091		6	13	570	13.0	6.093				
7			15	2097	14.0	6.474		7								
8			17	3023	13.8	6.586		8								
9								9								
10								10								
11								11								
12								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.

swordfish

01201

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2015



Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12	1		49	552	7.8	3.407		1					
Event:	12	2		50	3057	7.8	3.448	bubbles in flask	2					
Station:	SC74	3		51A	3067	7.9	3.548		3	51B	3068	8.0	3.551	
Event Date (Local):	07 July 2016	4		52	3118	8.1	3.579		4					
Analysis Date (Local):	08 July 2016	5		53	3074	8.1	3.629		5					
Analyst:	Tamar	6		54	3076	8.3	3.743	Spigot is loose - integrity OK	6					
Stdization Date (Local):	07 July 2016	7		55	2020	8.3	3.847		7					
KIO ₃ N:	0.0120874	8		56A	3052	8.3	4.312		8	56B	3062	9.0	4.307	
Standard Titer:	0.5159837	9		57	3055	9.5	4.802		9					
Blank Titer:	0.0004925	10		58	3075	9.9	5.150		10					
THIO N:	0.234542	11		59	3010	10.4	5.921		11					
Sample Flask Water Seal?	Yes No	12		61	3014	11.1	6.412		12					
Reagent Change?	MnCl ₂	13							13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14							14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15							15					
	KIO ₃	16							16					
	THIO	17							17					
Notes:	none	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.

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Water Properties Group

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02401

Swallow.

Cruise and Analysis Information						Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2016-12					1			62	708	7.9	3.665		1						
Event:	24					2			63	3192	7.9	3.559		2						
Station:	DOUG11					3			64	3040	7.9	3.597		3						
Event Date (Local):	07 July 16					4			65A	3013	8.1	3.673	⇒	4	65B	3025	8.1	3.650		
Analysis Date (Local):	07 July 16					5			66	557	8.1	3.748		5						
Analyst:	Tanner					6			67	3043	8.2	3.849		6						
Stdization Date (Local):	16 July 16					7			68	3038	8.4	3.646		7						
KIO ₃ N:	0.0120874					8			69A	575	8.6	4.168	⇒	8	69B	611	8.7	4.174		
Standard Titer:	0.5159837					9			70	510	8.6	4.485		9						
Blank Titer:	0.0004925					10			71	528	8.8	4.731		10						
THIO N:	0.234542					11			72	3053	10.7	6.114		11						
Sample Flask	(Yes)					12								12						
Water Seal?	No					13			973	3034	16.4	6.720		13					hard label	
Reagent Change?	MnCl ₂					14								14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH					15								15						
	H ₂ SO ₄					16								16						
NOTE NEW BATCH IN LOG BOOK	KIO ₃					17								17						
	THIO					18								18						
Notes:						19								19						
						20								20						
						21								21						
						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.

02501

swallow

Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2016-12	1			76	612		3.553	no value entered for T1 at time of sampling so put (TF) in 8.2	1						
Event:	25	2								2						
Station:	DOUG-4	3			78	2518	8.2	3.553		3	78	586	8.2	3.591		
Event Date (Local):	07 July 16	4								4						
Analysis Date (Local):	07 July 16	5			80	2099	8.1	3.732		5						
Analyst:	Tamarac	6								6						
Stdization Date (Local):	06 July 16	7			82	3043	8.3	3.762		7						
KIO ₃ N:	0.0120874	8								8						
Standard Titer:	0.51598	9			84	3162	8.6	3.230		9						
Blank Titer:	0.0004925	10								10						
THIO N:	0.234542	11			86	3096	8.7	4.166		11						
Sample Flask Water Seal?	Yes	12								12						
	No	13			88	3175	8.5	4.532		13	88	570	8.7	4.529		
Reagent Change?	MnCl ₂	14								14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			90	2057	8.7	8.007	5.225	15						
	H ₂ SO ₄	16								16	92	3161				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17			92	3023	11.2	8.007		17	92	3161	11.6	8.016		
	THIO	18								18						
Notes:	none	19			94	3083	16.6	6.853		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.

marken

02701

Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information							Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12						1			97	552	8.1	3.539		1					
Event:	27						2			98	3052	8.1	3.547		2					
Station:	DOUG-16						3			99	3067	8.0	3.583		3					
Event Date (Local):	07 July 16						4			100	3049	8.1	3.605		4	100	3119	8.1	3.609	
Analysis Date (Local):	08 July 16						5			101	3074	8.1	3.641		5					
Analyst:	Tamarc						6			102	3076	8.2	3.722		6					
Stdization Date (Local):	06 July 16						7			103	3020	8.4	3.800		7					
KIO ₃ N:	0.0120874						8			104	3052	8.5	3.840		8					
Standard Titer:	0.51598						9			105	3062	8.9	4.072		9					
Blank Titer:	0.0004925						10			106	3055	9.5	4.328		10					
THIO N:	0.234542						11			107	3065	9.0	4.518		11	107	3075	9.1	4.522	
Sample Flask Water Seal?	(Yes)						12			108	3070	10.0	5.349		12					
	No						13			109	3014	16.8	6.746		13					
Reagent Change?	MnCl ₂						14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15								15					
	H ₂ SO ₄						16								16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃						17								17					
	THIO						18								18					
Notes:	(none)						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.

MARLIN

02901

Dissolved Oxygen Analysis Log Sheet

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Institute of Ocean Sciences

Water Properties Group



Cruise and Analysis Information												Cruise and Analysis Information						
Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments					
1			120	3066	8.1	3.539		1	120	3041	8.0	3.543						
2								2										
3			122	3072	8.1	3.563		3										
4								4										
5			124	3059	8.6	3.594		5										
6								6										
7			126	1409	8.1	3.662	8.5 (redone) after R Taken	7	126	3046	8.2	3.595						
8								8										
9			128	3057	8.3	3.682		9										
10								10										
11			130	3044	8.5	3.791		11										
12								12										
13			132	3054	8.7	3.820		13										
14								14										
15			134	3047	9.0	3.995		15										
16								16										
17			136	3048	9.1	4.259		17										
18								18										
19			138	3118	9.3	4.490		19	138	3170	9.6	4.491						
20								20										
21			140	1050	10.3	5.244		21										
22								22										
23			142	658	16.7	6.626		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.

OCTOPUS

03101

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12	1			145	3056	8.1	3.515		1					
Event:	31	2			146	1059	8.0	3.543		2					
Station:	DOUG 26	3			147	3021	8.1	3.587		3					
Event Date (Local):	07 July 16	4			148	2086	8.1	3.615		4					
Analysis Date (Local):	08 July 16	5			149	3104	8.2	3.631		5					
Analyst:	Tamara	6			150	2095	8.3	3.697		6					
Stdization Date (Local):	08 July 16	7			151	3035	8.4	3.797		7					
KIO ₃ N:	0.0120874	8			152	3088	8.7	3.792		8					
Standard Titer:	0.5163607	9			153	3019	8.9	3.994		9					
Blank Titer:	0.0004367	10			154	2075	9.0	4.375		10	154	2085	9.0	4.382	temp uncertain due to erasure
THIO N:	0.234399	11			155	3035	9.3	4.576	Flask 2084	11	155	3034			
Sample Flask Water Seal?	Yes	12			156	3029	10.3	5.252		12					
	No	13			157	1053	15.2	6.820		13	158	1002	15.4	6.921	bad bad bad
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15								15					
	H ₂ SO ₄	16								16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		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: July 2015



03401

octopus

Cruise and Analysis Information							Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments				
Cruise Number:	2016-12						1			159	639	8.1	3.597		1									
Event:	34						2			160	647	8.1	3.649		2									
Station:	DOUG 31						3			161A	715	8.1	3.696	⇒	3	161B	2073	8.2	3.697					
Event Date (Local):	07 July 16						4			162	638	8.4	3.785	1st attempt this ^{was} not in sample - this	4	is		2nd attempt						
Analysis Date (Local):	09 July 16						5			163	620	8.7	4.071		5									
Analyst:	Tamara						6			164	631	8.8	4.325		6									
Stdization Date (Local):	08 July 16						7			165A	622	9.1	4.471	⇒	7	165B	657	9.3	4.481					
KIO ₃ N:	0.0120874						8			166	3007	10.1	5.084		8									
Standard Titer:	0.5163607						9			167	690	16.1	6.943		9									
Blank Titer:	0.0004367						10								10									
THIO N:	0.234399						11								11									
Sample Flask Water Seal?	(Yes)						12								12									
	No						13								13									
Reagent Change?	MnCl ₂						14								14									
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15								15									
	H ₂ SO ₄						16								16									
NOTE NEW BATCH IN LOG BOOK	(None)						17								17									
	KIO ₃						18								18									
	THIO						19								19									
Notes:	Should 06 July cal be used?						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: July 2015



bender

04001

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12	1			170	569	7.8	3.411		1					
Event:	40	2			171	3132	7.9	3.472		2					
Station:	KSK1	3			172	3129	8.0	3.497		3					
Event Date (Local):	07 July 16	4			173	2014	8.1	3.536		4					
Analysis Date (Local):	09 July 16	5			174	3022	8.1	3.685		5					
Analyst:	Tamar	6			175A	3028	8.4	3.808	⇒	6	175B	3133	8.5	3.813	
Stdization Date (Local):	08 July 16	7			176	3134	8.6	3.868		7					
KIO ₃ N:	0.0120874	8			177	3193	8.9	3.999		8					
Standard Titer:	0.5163607	9			178	3135	8.9	4.291		9					
Blank Titer:	0.0004367	10			179A	3125	9.3	4.553	⇒	10	179B	3126	9.5	4.642	yuck!
THIO N:	0.234399	11			180	3144	10.5	5.308		11					
Sample Flask	(es)	12								12					
Water Seal?	No	13			182	3147	13.8	7.803		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.

Should
06 July cal
be used?

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2015



dinosaur

Cruise and Analysis Information							Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2016-12	1			184	3079	7.9	3.399								1					
Event: 42	2			185	456	7.8	3.431								2					
Station: DOUG 45	3			186	471	7.8	3.457								3					
Event Date (Local): 07 July 16	4			187A	1406	7.9	3.476								4	187B	3005	8.0	3.576	☹
Analysis Date (Local): 09 July 16	5			188	196	7.9	3.503								5					
Analyst: Tamariz	6			189	712	8.0	3.497								6					
Stdization Date (Local): 08 July 16	7			190	3073	8.1	3.614								7					
KIO ₃ N: 0.012 0874	8			191	3078	8.5	3.772								8					
Standard Titer: 0.5163607	9			192A	3050	8.6	3.874								9	192B	1055	8.1	3.873	Re-draw - New A&T ☺
Blank Titer: 0.0004367	10			193	396	9.3	4.058								10					
THIO N: 0.234399	11			194	2089	9.3	4.191								11					
Sample Flask Water Seal? ☒ Yes ☐ No	12			195A	439	9.3	4.366								12	195B	2065	9.6	4.366	☺
Reagent Change? MnCl ₂	13			196	2000	10.7	5.163								13					
(Please circle reagent that was changed prior to sampling and standardization)	14														14					
NOTE NEW BATCH IN LOG BOOK	15			198	3081	14.6	7.140								15					
	16														16					
	17														17					
	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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Last Updated: July 2015



bender

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12	1		200	3150	7.7	3.398		1					
Event:	47	2							2					
Station:	SC61	3		202	3142	7.7	3.445		3					
Event Date (Local):	08 July 16	4							4					
Analysis Date (Local):	09 July 16	5		204	3036	7.8	3.480		5					
Analyst:	Tamar	6							6					
Stdization Date (Local):	08 July 16	7		206A	3016	7.9	3.522	⇒	7	206B	3191	7.9	3.520	
KIO ₃ N:	0.0120874	8							8					
Standard Titer:	0.5163607	9		208	3143	8.0	3.583		9					
Blank Titer:	0.0004367	10							10					
THIO N:	0.234399	11		210	3148	8.3	3.750		11					
Sample Flask Water Seal?	Yes	12							12					
	No	13		212	3145	8.4	3.855		13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		214A	3146	9.3	4.586	⇒	15	214B	3209	9.4	4.589	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17		216	3201	10.0	5.134		17					
	THIO	18							18					
Notes:		19		218	3194	10.4	5.459		19					
		20							20					
		21		220	3198	10.8	5.722		21					
		22							22					
		23		222	3190	11.4	6.198		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.

Swallow

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group

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Cruise and Analysis Information							OXY-1					OXY-2				
Cruise Number:	Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments		
2016-12	1			225	708	6.7	1.906		1							
Event: 56	2								2							
Station: HEC1	3			227	3192	8.3	4.109		3							
Event Date (Local): 08 July 16	4								4							
Analysis Date (Local): 09 July 16	5			229	3040	9.1	4.967		5	229	3013	9.2	4.963	flask # 3013		
Analyst: Tamar	6								6							
Standardization Date (Local): 08 July 16	7			231	3025	9.9	5.718		7							
KIO ₃ N: 0.0120874	8								8							
Standard Titer: 0.5163607	9								9							
Blank Titer: 0.0004367	10								10							
THIO N: 0.234399	11			235	557	10.8	5.902		11							
Sample Flask Water Seal? ☒ Yes	12								12							
☐ No	13			237	3093	12.1	6.285		13	237	3038	12.3	6.285	☺ (R. Charles!)		
Reagent Change? MnCl ₂	14								14							
(Please circle reagent that was changed prior to sampling and standardization)	15			239	575	13.4	6.518	Re-drawn. Accidentally trapped air.	15							
H ₂ SO ₄	16							(before 13B)	16							
NOTE NEW BATCH IN LOG BOOK	17			241	611	14.5	6.358		17							
☒ None	18								18							
THIO	19								19							
Notes:	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.

Swallow

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12	1			243	528	7.3	3.474		1					
Event:	58	2			244	3053	8.5	4.341		2					
Station:	SLCW	3			245	504	8.8	4.667		3					
Event Date (Local):	08 July 16	4			246	612	9.9	5.482		4	246	2098	9.9	5.492	
Analysis Date (Local):	09 July 16	5			247	586	10.7	5.798		5					
Analyst:	Tamara	6			248	2099	11.8	6.251		6					
Stdization Date (Local):	08 July 16	7			243	3043	13.0	6.564		7					
KIO ₃ N:	0.0120874	8			250	3162	13.9	6.477	Questionable valve (may not have been closed)	8					
Standard Titer:	0.5163607	9								9					
Blank Titer:	0.0004367	10							during cast	10					
THIO N:	0.234399	11								11					
Sample Flask Water Seal?	Yes	12								12					
	No	13								13					
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15								15					
	H ₂ SO ₄	16								16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		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.

Greek swordfish

05901

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	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2016-12	1						1								1					
Event: 59	2			252	552	7.1	1.968								2	252	3057	7.0	1.723	crap!
Station: 9151	3														3					
Event Date (Local): 21/09/2016	4			254	3067	7.3	2.285								4					
Analysis Date (Local): 09 July 16	5			255	3048	8.0	3.016								5					
Analyst: Tamar	6			256	3119	8.5	3.727								6					
Stdization Date (Local): 08 July 16	7			257	3074	10.1	4.849								7	257	3076	10.2	4.850	☺
KIO ₃ N: 0.0120874	8														8					
Standard Titer: 0.5163607	9			258	2070	12.8	6.340								9					
Blank Titer: 0.0004367	10			260	3052	13.2	6.400								10					
THIO N: 0.234399	11			261	3062	14.0	6.462								11					
Sample Flask Water Seal? Yes	12														12					
Water Seal? No	13			263	3055	14.3	6.422								13					
Reagent Change? MnCl ₂	14														14					
(Please circle reagent that was changed prior to sampling and standardization)	15														15					
NOTE NEW BATCH IN LOG BOOK	16														16					
	17														17					
	18														18					
	19														19					
	20														20					
	21														21					
	22														22					
	23														23					
	24														24					

is 3051 in box file (fixed)

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.

OCTOPUS

Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12	1		265	3056	6.3	1.678		1	265	1059	6.3	1.673	
Event:	11 62	2		266	3021	6.8	1.935		2					
Station:	MS 3	3		267	3086	6.5	1.932		3					266 and 267 (Niskins 2, 3) both trapped at 200m
Event Date (Local):	09 July 16	4		268	3104	7.4	3.121		4					
Analysis Date (Local):	09 July 16	5		269	3095	8.6	4.538		5					
Analyst:	Tamara	6		270	3035	9.3	5.433		6					
Stdization Date (Local):	09 July 16	7		271	3088	10.9	5.996		7	271	309	11	5.997	
KIO ₃ N:	0.0120874	8		272	2075	13.1	6.284	13.1	8					
Standard Titer:	0.5165238	9		273	2085	14.1	6.288		9					
Blank Titer:	0.0003637	10		274	2084	14.2	6.275		10					
THIO N:	0.234378	11		275	3029	14.3	6.263		11					
Sample Flask Water Seal?	Yes	12							12					
	No	13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		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.

OCTOPUS

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M54

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-72	1			278	1053	6.0	1.468		1					
Event:	63	2								2					
Station:	M54	3			278	1053	6.0	1.468		3					
Event Date (Local):	09 July 16	4			279	1002	6.2	1.623		4					
Analysis Date (Local):	10 July 16	5			280	6054	6.3	1.790		5					
Analyst:	Tamar	6			281	639	6.5	1.949		6					
Stdization Date (Local):	09 July 16	7			282	647	7.5	2.461		7	282	715	7.3	2.449	
KIO ₃ N:	0.0120874	8			283	2073	8.7	3.999	8.7	8					
Standard Titer:	0.5165238	9			284	638	8.3	4.587	9.3	9					
Blank Titer:	0.0003637	10								10					
THIO N:	0.234378	11			286	620	10.4	5.487		11					
Sample Flask Water Seal?	Yes	12			287	631	12.1	6.060		12	287	622	12.1	6.060	☺
	No	13			288	657	13.4	6.362		13					
Reagent Change?	MnCl ₂	14			289	3007	13.6	6.415		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			290	690	13.8	6.394		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.

Dissolved Oxygen Analysis Log Sheet

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M56

MARLIN

Cruise and Analysis Information							Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12	1			294	3065	3.8	0.399		1	294	3075	4.1	0.407						
Event:	65	2			295	306	3.8	0.390		2										
Station:	M56	3			296	3014	4.2	0.290		3										
Event Date (Local):	09 July 16	4			297	3066	4.9	0.371		4										
Analysis Date (Local):	10 July 16	5			298	3041	5.5	0.786		5										
Analyst:	Tamara	6			299	3072	5.8	1.274		6										
Stdization Date (Local):	09 July 16	7			300	3059	6.3	2.142		7	300	1409	6.5	2.143						
KIO ₃ N:	0.0120874	8			301	3046	6.7	2.352		8										
Standard Titer:	0.5165238	9			302	3051	7.3	3.251	change to 3051 in box file	9										
Blank Titer:	0.0003637	10			303	3044	7.6	3.499		10										
THIO N:	0.234378	11			304	3054	8.5	4.624		11	305	3048	9.0							
Sample Flask Water Seal?	Yes	12			305	3047	8.9	5.911	analyzed before 305B	12				5.911	☺					
	No	13			306	3118	9.8	5.786		13										
Reagent Change?	MnCl ₂	14			307	3120	11.3	5.823		14										
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			308	1050	12.7	6.359		15										
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			309	658	13.2	6.599		16										
	KIO ₃	17			310	569	13.7	6.471		17					In box BENDER					
	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	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2016-12						1			315						1					
Event:	2 67						2			316						2					
Station:	MS8						3			318	3079	3.1	1.656	~2200m b-5	3						
Event Date (Local):	09 July 16						4			316	456	4.8	2.27	Re-drawn 0.091 1000 m	4						
Analysis Date (Local):	10 July 16						5	X		317	471	4.8	0.494	Slight closed leak	5	317B	1406	5.4	0.482		
Analyst:	Tamara						6					5.1			6						
Stdization Date (Local):	09 July 16						7			319	3005	5.7	1.048		7						
KIO ₃ N:	0.0120874						8			320	196	5.8	1.639	bubble in flask before analysis opening flask	8						
Standard Titer:	0.5165238						9			321	712	6.4	2.410		9						
Blank Titer:	0.0003637						10			322	3073	6.7	2.380		10						
THIO N:	0.234378						11			323	3078	7.3	3.183		11	323B	3050	7.4	3.191		
Sample Flask Water Seal?	Yes						12			324	1055	8.0	3.817		12						
	No						13			325	396	8.3	5.554		13						
Reagent Change?	MnCl ₂						14			326	2089	9.5	5.537		14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15			327	439	10.5	5.549	10.2	15						
	H ₂ SO ₄						16			328	2065	11.5	5.859		16						
NOTE NEW BATCH IN LOG BOOK	KIO ₃						17			329A	2060	12.7	6.171		17	329B	3081	12.7	6.178		
	THIO						18			330	505	13.6	6.239		18						
Notes:	DINO2SAURUS!						19			331	2068	13.7	6.254		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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swallow

Cruise and Analysis Information																
	Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments		
Cruise Number: 2016-12	1								1							
Event: 68	2								2							
Station: CT8	3			334	708	3.3	1.325	2065m	3							
Event Date (Local): July 10	4			335	3192	3.8	0.534	1500m	4							
Analysis Date (Local): 10 July 16	5			336A	3040	4.0	0.423	1250m	5	336B	3013	4.2	0.426	😊		
Analyst: Tamara	6			337	3025	4.7	0.268	1000m	6							
Stdization Date (Local): 09 July 16	7			338	557	5.2	0.331	750m	7							
KIO ₃ N: 0.0120874	8								8							
Standard Titer: 0.5165238	9			340	3093	5.8	0.769	500m	9							
Blank Titer: 0.0003637	10			341A	3038	6.1	1.243	400m	10	341B	575	6.2	1.246			
THIO N: 0.234378	11			342	611	6.5	1.819	300m	11							
Sample Flask Water Seal? (Yes) No	12			343	510	6.8	2.315	250m	12							
Reagent Change? MnCl ₂	13			344	528	7.1	2.629		13							
(Please circle reagent that was changed prior to sampling and standardization)	14			345	3053	7.7	3.128		14							
NOTE NEW BATCH IN LOG BOOK	15			346A	3034	8.1	3.328		15	346B	612	8.2	3.322			
	16			347	2098	8.5	4.066		16							
	17			348	586	9.3	4.618		17							
	18			349	2099	10.7	5.484		18							
Notes:	19			350	3043	13.5	6.321		19							
SWALLOW 2	20			351	3162	14.0	6.296		20							
	21			352	3096	14.1	6.298		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.

Bender

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Cruise and Analysis Information							OXY-1						OXY-2					
Cruise Number:	Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments				
2016-12	1			355	569	4.9	0.444		1									
Event: 70	2			356	3132	5.8	1.086		2									
Station: SC16	3			357	3129	6.1	1.402		3	357	2014	6.1	1.407	6.1				
Event Date (Local): 10 July 16	4			358	3022	6.3	1.861		4									
Analysis Date (Local): 10 July 16	5			359	3028	6.5	2.087		5									
Analyst: Tamer	6			360	3133	6.9	2.606		6									
Stdization Date (Local): 09 July 16	7			361	3134	7.5	3.055		7									
KIO ₃ N: 0.0120874	8			362	3193	7.9	3.606		8									
Standard Titer: 0.5165238	9			363	3135	8.4	4.046	8.4	9	363	3125	8.5	4.052					
Blank Titer: 0.0003637	10			364	3126	9.3	4.825		10									
THIO N: 0.234378	11			365	3144	9.8	5.101		11									
Sample Flask Water Seal? <u>Yes</u>	12			366	3147	10.1	5.198		12									
Reagent Change? MnCl ₂	13			367	3138	12.9	6.260		13									
(Please circle reagent that was changed prior to sampling and standardization)	14			368	3150	13.8	6.349		14									
NOTE NEW BATCH IN LOG BOOK	15								15									
	16								16									
	17								17									
	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.

BENDER

Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12	1		371	3036	6.3	1.721		1					
Event:	71	2							2					
Station:	SCOTT52	3		371	3036	6.3	1.721		3					
Event Date (Local):	10 July 16	4		372	3016	6.5	2.047		4					
Analysis Date (Local):	11 July 16	5		373	3191	6.8	2.426		5					
Analyst:	Tamara	6		374	3143	7.3	2.933		6					
Stdization Date (Local):	09 July 16	7		375	3148	7.6	3.396		7	375	3145	7.7	3.392	
KIO ₃ N:	0.0120874	8							8					
Standard Titer:	0.5165238	9		377	3146	8.3	3.845		9					
Blank Titer:	0.0003637	10		378	3209	9.3	4.764		10					
THIO N:	0.234378	11		380	3201	11.9	5.708	BOT 12	11					
Sample Flask Water Seal?	Yes	12		381	3194	13.3	6.214	BOT 13	12	381	3198	13.4	6.206	
	No	13		382	3190	14.6	6.330	BOT 14	13					
Reagent Change?	MnCl ₂	14		383	3000	14.3	6.329	BOT 15	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.

Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12	1		386	3086	6.8	2.332		1					
Event:	75	2		387	1059	7.4	2.985		2					
Station:	CI 3	3		388	3021	8.0	3.757		3	388	2086	8.1	3.760	
Event Date (Local):	10 July 16	4		389	3104	8.6	4.524		4					
Analysis Date (Local):	11 July 16	5		390	2095	9.7	5.304		5					
Analyst:	Tamara	6		391	3035	11.3	5.768		6					
Stdization Date (Local):	09 July 16	7		392	3088	12.3	6.196		7					
KIO ₃ N:	0.012 0874	8		393	3019	13.6	6.609		8					
Standard Titer:	0.5165238	9		394	2075	13.9	6.528		9					
Blank Titer:	0.0003637	10							10					
THIO N:	0.234378	11							11					
Sample Flask Water Seal?	(Yes) No	12							12					
Reagent Change?	MnCl ₂	13							13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14							14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15							15					
	KIO ₃	16							16					
	THIO	17							17					
Notes:		18							18					
		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2016-12						1									1					
Event:	77						2									2					
Station:	CI 1						3			397	552	6.8		← full flask is in box	3						
Event Date (Local):	11 July 16						4			398	3057	7.8	2.922	← very big bubble in flask before opening	4	398 ¹³	3067	7.8	2.924	and can't get the blessed thing open any way	
Analysis Date (Local):	11 July 16						5			399	3049	8.5	3.994		5						
Analyst:	amara						6								6						
Stdization Date (Local):	09 July 16						7			401	3119	9.5	4.888		7						
KIO ₃ N:	0.0120874						8			402	3074	12.2	5.693		8						
Standard Titer:	0.5165238						9			403 ^A	3076	14.2	6.252		9	403 ^B	2020	14.2	6.262		
Blank Titer:	0.0003637						10			404	3052	14.4	6.509		10						
THIO N:	0.234378						11			405	3062		6.489	no temp recorded - and 14.4 (TF)	11						
Sample Flask Water Seal?	(Yes)						12								12						
	No						13								13						
Reagent Change?	MnCl ₂						14								14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15								15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16								16						
	KIO ₃						17								17						
	THIO						18								18						
Notes:							19								19						
							20								20						
							21								21						
							22								22						
							23								23						
							24								24						

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	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2016-12	1						1								1					
Event: 78	2						2								2					
Station: CS11	3			410	3065	7.5	2.440								3					
Event Date (Local): 11 July 16	4			411	3075	7.7	3.003								4					
Analysis Date (Local): 12 July 16	5			412	3010	8.6	4.112								5					
Analyst: Tamara	6														6					
Stdization Date (Local): 11 July 16	7			414	3014	9.7	5.312								7					
KIO ₃ N: 0.0120874	8			415	3066	11.1	5.455								8					
Standard Titer: 0.5162667	9			416A	3041	12.0	5.929								9	416B	3072	12.1	5.938	
Blank Titer: 0.0004542	10			417	3059	13.9	6.880								10					
THIO N: 0.234506	11			418	1409	14.3	6.813								11					
Sample Flask (Yes)	12														12					
Water Seal? No	13														13					
Reagent Change? MnCl ₂	14														14					
(Please circle reagent that was changed prior to sampling and standardization)	15														15					
NOTE NEW BATCH IN LOG BOOK	16														16					
	17														17					
	18														18					
	19														19					
	20														20					
	21														21					
	22														22					
	23														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	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12	1			421	3046	7.1	2.508		1					
Event:	80	2			422 ^A	3051	7.1	2.629		2	422B	3044	7.7	2.630	
Station:	C509	3			423	3054	8.2	3.804		3					
Event Date (Local):	11 July 16	4			424	3048	8.1	4.458		4					
Analysis Date (Local):	12 July 16	5			425	3047	8.7	4.735		5					
Analyst:	Tamara	6			426	3118	10.6	5.165		6					
Stdization Date (Local):	11 July 16	7			427	3120	10.0	5.347		7					
KIO ₃ N:	0.0120874	8			428	1050	12.7	6.848		8					
Standard Titer:	0.5162667	9			429	658	13.1	7.318		9					
Blank Titer:	0.0004542	10								10					
THIO N:	0.234506	11								11					
Sample Flask Water Seal?	☒ Yes	12								12					
	No	13								13					
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15								15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16								16					
	KIO ₃	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12	1								1					
Event:	83	2								2					
Station:	CS06	3			432	708	9.0	4.298		3					
Event Date (Local):	11 July 16	4			433	3192	9.3	4.633		4					
Analysis Date (Local):	12 July 16	5			434	3040	10.5	5.416		5					
Analyst:	Tamar	6								6					
Stdization Date (Local):	11 July 16	7			436	3013	10.9	5.694		7					
KIO ₃ N:	0.0120874	8			437A	3025	12.1	6.524		8	437B	557	12.1	6.527	
Standard Titer:	0.5162667	9			438	3093	12.9	6.907		9					
Blank Titer:	0.0004542	10								10					
THIO N:	0.234506	11								11					
Sample Flask Water Seal?	Yes <i>tiny</i> ☒ No	12								12					
Reagent Change?	MnCl ₂	13								13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14								14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15								15					
	KIO ₃	16								16					
	THIO	17								17					
Notes:		18								18					
		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2016-12	1						1								1					
Event: 2016-12 94	2						2								2					
Station: A1	3						3								3					
Event Date (Local): 13 July 16	4						4								4	444B	1406	6.4	1.079	
Analysis Date (Local): 13 July 16	5						5								5					
Analyst: Tamar	6						6							bubbles in sample before opening	6					
Stdization Date (Local): 13 July 16	7						7								7					
KIO ₃ N: 0.0120874	8						8							⇒ flask 307B	8	448B	307B	7.7	2.201	
Standard Titer: 0.5159761	9						9								9					
Blank Titer: 0.0006365	10						10								10					
THIO N: 0.234485	11						11								11					
Sample Flask Water Seal? Yes	12						12								12					
	13						13								13					
Reagent Change? MnCl ₂	14						14							⇒	14	454A	2060	15.5	6.094	bubble in sample before opening
(Please circle reagent that was changed prior to sampling and standardization)	15						15								15					
	16						16								16					
NOTE NEW BATCH IN LOG BOOK	17						17								17					
	18						18								18					
	19						19								19					
Notes:	20						20								20					
	21						21								21					
	22						22								22					
	23						23								23					
	24						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	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2016-12	1			457	569	9.6	0.825								1					
Event: 96	2			458	3132	9.5	0.844								2	458	3132	9.5	0.852	
Station: EFF02	3			459	2014	9.9	1.698								3					
Event Date (Local): 15/07/2016	4			460	3022	10.4	2.739								4					
Analysis Date (Local): 15 July 16	5			461	3028	11.0	5.437								5					
Analyst: Tamar	6			462	3133	14.4								← analysed but not written down here	6					
Stdization Date (Local): 15 July 16	7														7					
KIO ₃ N: 0.0120874	8														8					
Standard Titer: 0.5159986	9														9					
Blank Titer: 0.000478	10														10					
THIO N: 0.234531	11														11					
Sample Flask Water Seal? <u>Yes</u>	12														12					
	13														13					
Reagent Change? MnCl ₂	14														14					
(Please circle reagent that was changed prior to sampling and standardization)	15														15					
	16														16					
NOTE NEW BATCH IN LOG BOOK	17														17					
<u>none</u>	18														18					
	19														19					
Notes:	20														20					
	21														21					
	22														22					
	23														23					
	24														24					

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12	1			463	3193	9.0	∅	H ₂ S - not analysed	1					
Event:	97	2			464	3135	9.0	∅	H ₂ S - not analysed	2					
Station:	E F F03	3			465	3125	9.3	0.388		3					
Event Date (Local):	15/07/2016	4			466	3126	9.5	1.203		4	466B	3144	9.5	1.204	
Analysis Date (Local):	15 July 16	5			467	3107	9.8	1.975		5					
Analyst:	Tamara	6			468	3138	10.2	2.876		6					
Stdization Date (Local):	15 July 16	7			469	3150	10.9	4.911		7	469B	3142	10.9	4.979	
KIO ₃ N:	0.0120874	8			470	3036	16.7	7.335		8					
Standard Titer:	0.5159986	9								9					
Blank Titer:	0.000478	10								10					
THIO N:	0.234531	11								11					
Sample Flask	(Yes)	12								12					
Water Seal?	No	13								13					
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15								15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16								16					
	KIO ₃	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2016-12	1			471	3191	10.1	2.280		1					
Event:	98	2			472A	3143	10.2	3.000		2	472B	3148	10.2	3.064	
Station:	EFF04	3			473	3145	10.5	3.837	Accidentally tapped early, Re-drawn	3					
Event Date (Local):	15/07/2016	4			474	3146	11.3	5.364		4					
Analysis Date (Local):	15 July 16	5			475	3203	16.4	7.368		5					
Analyst:	Tamara	6								6					
Stdization Date (Local):	15 July 16	7								7					
KIO ₃ N:	0.0120874	8								8					
Standard Titer:	0.5159986	9								9					
Blank Titer:	0.000478	10								10					
THIO N:	0.234531	11								11					
Sample Flask	(Yes)	12								12					
Water Seal?	No	13								13					
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15								15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16								16					
	KIO ₃ <i>None</i>	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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