

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

SPERM WHALE

Last Updated: July 2015



Cruise and Analysis Information							OXY-1						OXY-2					
	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: 2016-47	1			15	1050	10.5	4.783		1									
Event: 6	2			16	658	10.6	4.967		2									
Station: W301	3			17	3114	11.2	5.851		3									
Event Date (Local):	4			18	3061	12.1	6.592		4									
Analysis Date (Local): 2016-05-26	5			19	3108	12.0	6.534	top end cap is open	5									
Analyst: CS	6								6									
Stdization Date (Local): 2016-05-26	7								7									
KIO ₃ N: 0.0121501	8								8									
Standard Titer: 0.5198	9								9									
Blank Titer: 0.0007	10								10									
THIO N: 0.234192	11								11									
Sample Flask Water Seal? ☒ Yes	12								12									
	13								13									
Reagent Change? MnCl ₂	14								14									
(Please circle reagent that was changed prior to sampling and standardization)	15								15									
NaI/NaOH	16								16									
H ₂ SO ₄	17								17									
NOTE NEW BATCH IN LOG BOOK	18								18									
KIO ₃	19								19									
THIO	20								20									
Notes: MAY HAVE	21								21									
STATION & CAST #	22								22									
REVERSED IN HEADER	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:	2016-47	1			20	3116	9.2	3.553		1					
Event:	27	2			21	468	9.8	3.999		2					
Station:	1802	3			22	3101	10.5	4.800		3	22	2087	10.5	4.803	
Event Date (Local):		4			23	2063	11.5	6.199		4					
Analysis Date (Local):	2016-05-26	5			24	458	12.2	6.751		5					top cap
Analyst:	CS	6								6					
Stdization Date (Local):	2016-05-26	7								7					
KIO ₃ N:	0.0121507	8								8					
Standard Titer:	0.5198	9								9					
Blank Titer:	0.0007	10								10					
THIO N:	0.23492	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)	Nal/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:	2016-47						1			26	3098	7.8	2.160		1					
Event:	9						2			27A	2092	8.5	2.774		2	27B	1442	8.5	2.774	
Station:	6804						3			28	3103	8.7	3.029		3					
Event Date (Local):							4			29	3094	9.9	4.386		4					
Analysis Date (Local):	2016-05-26						5			30	2090	10.3	4.771		5					top cap
Analyst:	CS						6			31	1417	10.9	5.868		6					
Stdization Date (Local):	2016-05-26						7			32	462	11.9	6.133		7					top cap
KIO ₃ N:	0.0121524						8								8					
Standard Titer:	0.5194						9								9					
Blank Titer:	0.0007						10								10					
THIO N:	0.234172						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					

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

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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: 2016-47	1	✓	✓	34	3075	7.7	2.030		1											
Event: 13	2			35	3031	7.8	2.074		2	35B	552	7.8	2.074							
Station: 1806	3			36	3109	8.3	2.560		3											
Event Date (Local): 26 May 2016	4			37	3077	8.6	2.925		4											
Analysis Date (Local): 2016-05-26	5			38	3119	9.8	4.274		5											
Analyst: CS	6			39	3076	10.6	5.352		6											
Stdization Date (Local): 2016-05-26	7			40	2020	12.0	7.458		7											
KIO ₃ N: 0.0121524	8			41	3052	12.4	7.668		8											
Standard Titer: 0.8198	9								9											
Blank Titer: 0.0001	10								10											
THIO N: 0.254172	11								11											
Sample Flask Water Seal? ☒ Yes ☐ No	12								12											
Reagent Change? MnCl ₂	13								13											
(Please circle reagent that was changed prior to sampling and standardization)	14								14											
NOTE NEW BATCH IN LOG BOOK	15								15											
	16								16											
	17								17											
	18								18											
	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:	2016-47						1			45	3062	7.9	2.081		1					
Event:	ZC						2			46	3055	7.9	2.071	⇒	2	46	3065	7.9	2.070	
Station:	LB08						3			47	3045	8.2	2.345		3					
Event Date (Local):	26 May 2016						4			48	3066	8.5	2.651		4					
Analysis Date (Local):	26-05-2016						5			49	3067	9.4	3.738		5					
Analyst:	CS						6			50	3014	10.2	4.843		6					
Stdization Date (Local):	26-05-2016						7			51	3059	10.2	4.543		7					
KIO ₃ N:	0.0121504						8			52	1409	11.5	6.522		8					
Standard Titer:	0.5198						9			53	3041	11.6	6.646		9					
Blank Titer:	0.0007						10			54	3072	11.6	6.647		10					
THIO N:	0.234197						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					

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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:	2016-47	1			58	3054	7.8	2.358		1					
Event:	/ 28	2			59	3044	7.7	2.383		2					
Station:	4809	3			60	3051	8.3	2.486		3					
Event Date (Local):	26 MAY 2016	4			61	3046	9.1	3.27		4					
Analysis Date (Local):	26 05 2016	5			62	3048	9.6	3.819		5					
Analyst:	CS	6			63	3120	10.0	4.192		6					
Stdization Date (Local):	2016 05 26	7			64A	3047	10.3	4.532		7	64B	3118	10.3	4.532	
KIO ₃ N:	0.0121504	8			65	3049	12.3	6.912		8					
Standard Titer:	0.5148	9			66	3010	12.6	6.928		9					
Blank Titer:	0.0002	10								10					
THIO N:	0.234197	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					

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Cruise Number:	2016-47	1			68	708	7.5	2.175		1					
Event:	30	2			69	3192	7.9	2.112		2					
Station:	4811	3			70	3040	8.2	3.590		3					
Event Date (Local):	26 May 2016	4			71	3013	8.4	3.956	spigot leak	4					
Analysis Date (Local):	26 May 2016	5			72	3025	9.6	3.953		5					
Analyst:	CS	6			73	557	9.3	3.899		6					
Stdization Date (Local):	2016-05-26	7			74a	3093	9.7	5.658		7	74B	3038	9.7	5.660	
KIO ₃ N:	0.0121504	8			75	575	11.1	6.262		8					
Standard Titer:	0.5178	9			76	611	12.0	6.640		9					
Blank Titer:	0.0007	10			77	510	13.4	7.796		10					
THIO N:	0.234172	11			78	528	13.5	7.862		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:	SPARROW Box	18								18					
	SAMPLED 11 → 1	19								19					
	MR/NZ	20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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KITSIWAKE

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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: 2016-47	1			79	3034	6.3	0.839							1						
Event: 32	2			80	612	6.4	1.028							2						
Station: LB12	3			81A	2098	7.0	1.764							3	81B	586	6.9	0.777	BAD DUPES.	
Event Date (Local): 26 MAY 2016	4			82	2099	7.2	2.434							4						
Analysis Date (Local): 26 MAY 2016	5			83	3043	7.5	2.885							5						
Analyst: CS	6			84	3162	7.8	2.661							6						
Stdization Date (Local): 2016-05-26	7			85	3096	8.1	2.924							7						
KIO ₃ N: 0.012524	8			86	3175	8.2	3.661							8						
Standard Titer: 0.5198	9			87	570	8.5	4.089							9						
Blank Titer: 0.0007	10			88	2097	9.2	4.694							10						
THIO N: 0.23172	11			89	3023	11.0	6.449	TEMP MAY BE WRONG - APPARATUS						11						
Sample Flask Yes	12			90	3161	11.6	6.760	RAISE						12						
Water Seal? (NO)	13			91	3083	12.4	6.644							13						
Reagent Change? MnCl ₂	14			92	745	12.9	6.513							14						
(Please circle reagent that was changed prior to sampling and standardization)	15			93	3002	13	6.373							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						

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Cruise Number:	2016-47						1			95	1050	4.8	0.332		1						
Event:	34						2			96A	658	4.9	0.259		2	96B	3114	5.2	0.242		
Station:	LB 14						3			97	3061	5.4	0.248		3						
Event Date (Local):	26 May, 2016						4			98	3108	6.0	0.911		4						
Analysis Date (Local):	27 MAY 2016						5			99	3106	6.2	1.242		5						
Analyst:	CS						6			100	3110	6.5	1.882		6						
Stdization Date (Local):	26 May 2016						7			101	468	6.9	0.246		7						
KIO ₃ N:	0.0121501						8			102	301	7.3	2.651		8						
Standard Titer:	0.5198						9			103	2087	7.6	2.759		9						
Blank Titer:	0.0037						10			104	2063	7.9	3.171		10						
THIO N:	0.234192						11			105	458	8.1	3.301		11						
Sample Flask Water Seal?	Yes						12			106	1416	8.3	3.734		12						
	No						13			107	3098	8.9	4.414		13						
Reagent Change?	MnCl ₂						14			108	2092	9.8	6.485		14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15			109	1442	10.9	6.690		15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16			110	3103	12.0	6.477	Ugly curve (piece of equipment)	16						
	KIO ₃						17			111	3094	12.2	6.444	really bad bottom cap.	17					bottom cap, not sealed properly	
	THIO						18			112	2090	12.2	6.466		18						
Notes:	Sperm whale						19			113					19						
							20								20						
							21								21						
							22								22						
							23								23						
							24								24						

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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:	2016-47	1		126	3031	8.6	0.573		1					
Event:	43	2		127A	3057	3.8	0.411		2	127B	552	3.9	0.414	
Station:	LC11	3		128	3109	4.8	0.254		3					
Event Date (Local):	27 May 2016	4		129	3074	4.8	0.229		4					
Analysis Date (Local):	21 May 2016	5		130	3117	5.6	0.618		5					
Analyst:	CS	6		131	3076	6.0	1.188		6					
Stdization Date (Local):	26 May 2016	7		132	2020	6.6	1.805		7					
KIO ₃ N:	0.0121504	8	X	133	3052	6.8	3.011	TOP VALVE OPEN	8					
Standard Titer:	0.5198	9		134	3062	7.2	3.221		9					
Blank Titer:	0.00371	10		135	3055	7.5	3.184		10					
THIO N:	0.234192	11		136	3065	7.8	3.558		11					
Sample Flask Water Seal?	Yes No	12		137A	3075	8.1	3.828		12	137B	3066	8.1	3.878	
Reagent Change?	MnCl ₂	13		138	3067	8.6	4.155		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		139	3014	9.1	4.958		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		140	3059	9.8	6.306		15					
	KIO ₃	16		141	1409	10.8	6.759		16					
	THIO	17		142	3041	11.9	6.475		17					
Notes:		18		143	3077	11.9	6.472		18					
		19		144	3054	12.0	6.478		19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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BENDER

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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:	2016-47	1		162	569	5.5	0.47		1					
Event:	46 ☺	2		163	3132	5.8	0.913		2					
Station:	LC09	3		164	3129	5.9	1.185	spigot slow leak	3					
Event Date (Local):	27 MAY 2016	4		165	2014	6.5	1.977		4					
Analysis Date (Local):	28 MAY 2016	5		166 ^A	3022	6.8	2.079		5	166 ^B	3028	6.9	2.067	
Analyst:	CS	6		167	3134	7.0	3.288		6					
Stdization Date (Local):	28 May 2016	7		168	3133	7.4	2.804		7					
KIO ₃ N:	0.121504	8		169	3193	7.8	3.062		8					
Standard Titer:	0.5194	9		170	3135	8.1	3.479		9					
Blank Titer:	0.0004	10		171	3125	8.3	3.873		10					
THIO N:	0.234182	11		172	3126	8.6	4.501		11					
Sample Flask Water Seal?	☒ Yes ☐ No	12		173	3144	9.0	5.888		12					
Reagent Change?	MnCl ₂	13		174 ^A	3147	9.9	6.203		13	174 ^B	3150	9.9	6.201	small bubble on view
(Please circle reagent that was changed prior to sampling and standardization)	☐ NaI/NaOH ☒ H ₂ SO ₄	14		175	3138	11.1	6.462		14					
NOTE NEW BATCH IN LOG BOOK	☐ KIO ₃ ☐ THIO	15		176	3142	11.4	6.498		15					
		16		177	3036	11.3	6.485		16					
		17		178	3016				17					
		18							18					
		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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SWALLOW

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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:	2016-47	1			179	708	6.9	2.601							1					
Event:	52	2			180	3192	7.0	2.532							2					
Station:	WC08	3			181	3040	7.1	2.886							3					
Event Date (Local):	27 MAY 2016	4			182	3013	7.5	3.145							4					
Analysis Date (Local):	28 MAY 2016	5			183	3025	8.2	3.878							5					
Analyst:	CS	6			184	557	8.5	4.636							6					
Stdization Date (Local):	28 May 2016	7			185A	3093	9.0	5.779							7	185B	3038	8.9	5.800	
KIO ₃ N:	0.0121504	8			186	575	9.8	6.125							8					
Standard Titer:	0.5194	9			187	611	11.1	6.368							9					
Blank Titer:	0.0004	10			188	510	11.3	6.393							10					
THIO N:	0.234192	11			189	528	11.4	6.404							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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

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Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw 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:	2016-47	1		190	3053	7.9	2.787	FORCLOT TO PUT DEW TEMP IN COMP	1					
Event:	55	2		191	3034	8.2	3.621		2					
Station:	LCD6	3		192	612	8.7	4.989		3					
Event Date (Local):	27 MAY 2016	4		193	2098	9.4	5.819		4					
Analysis Date (Local):	28 May 2016	5		194	586	9.9	6.238		5					
Analyst:	(S)	6		195	2099	12.3	6.484		6					
Stdization Date (Local):	28 May 2016	7		196	3043	12.5	6.488		7	196	3162	12.5	6.485	
KIO ₃ N:	0.021504	8							8					
Standard Titer:	0.5194	9							9					
Blank Titer:	0.0004	10							10					
THIO N:	0.23180	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:	SUN 11/2016	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: 2016-47	1			197	3031	8.3	2.955								1					
Event: 58	2			198	3057	8.3	3.092								2					
Station: LCO4	3			199	552	8.5	3.332								3					
Event Date (Local): 28 MAY 2016	4			200	3109	8.7	3.411								4					
Analysis Date (Local): 28 MAY 2016	5			201	3074	8.7	3.562								5					
Analyst: CS	6			202	3119	8.7	3.576								6					
Stdization Date (Local): 28 MAY 2016	7			203A	3076	9.2	4.231								7	203B	2020	9.2	4.227	
KIO ₃ N: 0.0121504	8			204	3052	9.9	5.055								8					
Standard Titer: 0.5194	9			205	3062	11.3	7.165								9					
Blank Titer: 0.0004	10			206	3055	11.5	7.251								10					
THIO N: 0.234182	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)	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: 2016-47	1			207	3075	8.3	3.122								1					
Event: LCO2	2			208A	3066	8.7	3.599								2	208B	3067	8.7	3.596	
Station: 60	3			209	3014	9.1	3.934								3					
Event Date (Local): 28 May 2016	4			210	3059	9.3	4.304								4					
Analysis Date (Local): 28 May 2016	5			211	1409	9.7	4.780								5					
Analyst: CS	6			212	3041	10.7	6.452								6					
Stdization Date (Local): 28 May 2016	7			213	3072	10.8	6.612								7					
KIO ₃ N: 0.0121504	8														8					
Standard Titer: 0.594	9														9					
Blank Titer: 0.0024	10														10					
THIO N: 0.234182	11														11					
Sample Flask Water Seal? Yes	12														12					
Reagent Change? MnCl ₂	13														13					
(Please circle reagent that was changed prior to sampling and standardization)	14														14					
NOTE NEW BATCH IN LOG BOOK	15														15					
	16														16					
	17														17					
	18														18					
	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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Swordfish

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:	2016-47	1		215	3044	8.4	3.071		1					
Event:	61	2		216	3051	8.7	3.423		2					
Station:	LCO1	3		217a	3046	9.1	3.953		3	217b	3048	9.1	3.950	
Event Date (Local):	28 May 2016	4		218	3120	9.5	4.402		4					
Analysis Date (Local):	28 May 2016	5		219	3047	9.6	4.569		5					
Analyst:	CS	6		220	3118	10.9	6.882		6					
Stdization Date (Local):	28 May 2016	7	X	221	3049	11.5	7.424	leaky top cap	7					
KIO ₃ N:	0.0121504	8							8					
Standard Titer:	0.5194	9							9					
Blank Titer:	0.0004	10							10					
THIO N:	0.234182	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					

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: 2016-47	1	✓	✓	222	1050	9.4	4.228								1					
Event: 63	2	✓	✓	223	658	9.4	4.268								2					
Station: LDØ2	3	✓	✓	224	3114	9.9	4.967								3	224	3061	9.9	4.967	→ DOLLOID IN SAMPLE
Event Date (Local): 28 May 2016	4	✓	✓	225	3108	11.0	6.303								4					
Analysis Date (Local): 28 MAY 2016	5	✓	✓	226	3106	11.1	6.503								5					
Analyst: CS	6														6					
Stdization Date (Local): 28 May 2016	7														7					
KIO ₃ N: 0.0121504	8														8					
Standard Titer: 0.5194	9														9					
Blank Titer: 0.0024	10														10					
THIO N: 0.234180	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)	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:	2016-47	1			227A	3110	8.9	3.62	DO HOLD IN SAMPLE	1	227B	3101	8.9	3.613	
Event:	64	2			228	2087	9.1	3.971		2					
Station:	LDO4	3			229	2063	9.4	4.284		3					
Event Date (Local):	28 May 2016	4			230	458	11.5	0.141		4					
Analysis Date (Local):	28 May 2016	5			231	1416	11.7	6.201		5					
Analyst:	CS	6								6					
Stdization Date (Local):	2016 28 May	7								7					
KIO ₃ N:	0.0121504	8								8					
Standard Titer:	0.5194	9								9					
Blank Titer:	0.0004	10								10					
THIO N:	0.234182	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					

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:	2016-47	1			240	3056	5.6	0.511		1					
Event:	67	2			241	1059	5.6	0.314		2					
Station:	LDO8	3			242	2059	6.0	0.776	now 3021 (Flask #)	3	242	2086	6.0	0.769	
Event Date (Local):	28 May 2016	4			243	3104	6.2	1.275		4					
Analysis Date (Local):	28 May 2016	5			244	2095	6.6	1.934		5					
Analyst:	CS	6			245	3035	6.8	2.147		6					
Standardization Date (Local):	21 May 22	7			246	3088	7.1	2.951	leaky spigot - top cap	7					
KIO ₃ N:	0.0121524	8			247	2080	7.5	2.868		8					
Standard Titer:	0.5194	9			248	2075	7.8	3.532		9					
Blank Titer:	0.0004	10			249	2085	8.0	3.443		10					
THIO N:	0.28118	11			250	2084	8.3	3.690		11					
Sample Flask Water Seal?	Yes	12			251	3029	8.7	4.596		12					
	No	13			252	1053	9.1	5.953		13					
Reagent Change?	MnCl ₂	14			253	1002	9.7	5.878		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			254	1054	11.1	6.656		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		X	255	639	11.1	6.611	leaky spigot	16					
	KIO ₃	17			256	647	11.3	6.649	redrawn	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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whale

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:	2016-47	1			263	1050	4.8	0.225		1					
Event:	74	2			264	658	5.2	0.265		2					
Station:	LC 06	3			265	314	5.7	0.610		3	265	3061	5.8	0.613	
Event Date (Local):	29 May 2016	4			266	3108	5.8	1.377		4					
Analysis Date (Local):	29 May 2016	5			267	3106	6.3	1.846		5					
Analyst:	CS	6			268	3110	6.5	2.520		6					
Stdization Date (Local):	28 May 2016	7			269	3101	7.0	2.320		7					
KIO ₃ N:	0.0121524	8			270	2087	7.4	2.712		8					
Standard Titer:	0.544	9			271	2063	7.7	3.325		9					
Blank Titer:	0.0004	10			272	458	8.0	3.574		10					
THIO N:	0.284182	11			273	1416	8.3	4.027		11					
Sample Flask Water Seal?	(Yes) No	12			274	3098	8.7	4.839		12					
Reagent Change?	MnCl ₂	13			275	2092	9.3	6.279		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14			276A	1442	10.0	6.312		14	276B	3103	10.0	6.312	BUBBLE IN SAMPLE
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15			277	3094	10.4	6.663		15					
	KIO ₃	16			278	2090	10.8	7.218		16					
	THIO	17			279	1417	10.9	6.945	-Poss. bubble titration as tip of dosimeter may have been in lamp beam.	17					
Notes:		18								18					
		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: 2016-47	1			280	462	7.0	2.114								1					
Event: 77	2			281	371	7.0	2.115								2					
Station: LG 04	3			282	2049	7.5	2.897								3					
Event Date (Local): 29 May 2016	4			283	2091	7.9	3.549								4					
Analysis Date (Local): 29 MAY 2016	5	X		284	3089	8.4	3.920						leaky vent spigot	5						
Analyst: CS	6			285	3095	8.8	4.621							6	285	2088	8.8	4.621		
Stdization Date (Local): 28 MAY 2016	7			286	3107	10.1	5.800							7						
KIO ₃ N: 0.0121504	8			287	3127	11.8	6.433							8						
Standard Titer: 0.5194	9			288	3100	12.1	6.436							9						
Blank Titer: 0.0004	10													10						
THIO N: 0.254182	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)	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:	2016-47	1			289	589	7.9	0.304		1					
Event:	80	2			290	3132	8.6	3.125	⇒	2	290	3129	8.6	3.123	
Station:	LG82	3			291	2014	9.1	4.110		3					
Event Date (Local):	20 May 2016	4			292	3022	9.9	4.925		4					
Analysis Date (Local):	29 May 2016	5			293	3028	10.9	6.065		5					
Analyst:	CS	6			294	3134	11.4	6.307		6					
Stdization Date (Local):	28 May 2014	7			295	3133	11.5	6.331		7					
KIO ₃ N:	0.0121504	8								8					
Standard Titer:	0.5194	9								9					
Blank Titer:	0.0024	10								10					
THIO N:	0.234182	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 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:	2016-47	1		297	3193	9.6	4.504	ENTERED AS - 09	1					
Event:	81	2		298	3135	9.8	4.723	10	2	298	3125	9.8	4.722	11
Station:	LGØ1	3		299	3126	10.9	6.077	12	3					
Event Date (Local):	29 May 2016	4	X	300	3144	11.4	6.848	leaky vent 13	4					
Analysis Date (Local):	29 May 2016	5		301	3147	11.4	6.888	14	5					
Analyst:	CS	6							6					
Stdization Date (Local):	28 May 2016	7							7					
KIO ₃ N:	0.0121554	8							8					
Standard Titer:	0.5194	9							9					
Blank Titer:	0.0004	10							10					
THIO N:	0.034182	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					
Robot		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

Corrected in file to proper sample 4's.

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 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:	2016-47	1		311	3031	7.2	2.532		1					
Event:	81	2		312	3031	7.8	2.564		2					
Station:	LBP3	3		313	552	7.2	2.619		3					
Event Date (Local):	29 May 2016	4		314	3167	7.7	3.046		4					
Analysis Date (Local):	30 May 2016	5		315	3014	7.9	3.507	Leaky Spigot	5					
Analyst:	CS	6		316	3119	8.5	4.099		6	316	3016	8.5	4.096	
Stdization Date (Local):	30 May 2012	7		317	2020	9.1	4.715		7					
KIO ₃ N:	0.0121504	8		318	3052	9.7	6.194	TOP VALVE OPEN	8					
Standard Titer:	0.5193	9		319	3062	10.7	7.406		9					
Blank Titer:	0.0004	10		320	3055	11.4	7.334		10					
THIO N:	0.234198	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					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17					
	THIO	18							18					
Notes:	HR/CS	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 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: 2016-47		1		321	3056	4.4	0.484		1					
Event: 89		2		322	1059	4.2	0.449		2					
Station: LBPS		3		323	3521	4.5	0.380		3					
Event Date (Local): 29 May 2016		4		324	2086	5.2	0.364		4					
Analysis Date (Local): 30 May 2016		5		325	3104	5.8	0.957		5					
Analyst: CS		6		326	2095	5.9	1.301		6	326	3035	6.0	1.304	
Stdization Date (Local): 30 May 2016		7		327	3088	6.3	1.849		7					
KIO ₃ N: 0.01554		8		328	3089	6.5	2.156	3019 - Flask 1	8					
Standard Titer: 0.5193		9		329	2095	6.7	2.526		9					
Blank Titer: 0.0024		10		330	2085	6.9	2.477		10					
THIO N: 0.234188		11		331	2084	7.0	2.646		11					
Sample Flask Water Seal? ☒ Yes		12		332	3029	7.2	2.090		12					
	No	13		333	1053	7.5	3.326		13					
Reagent Change? MnCl ₂		14		334	1002	7.9	3.335		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		335	1054	8.5	4.089		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		336	639	8.9	4.644		16	336	647	8.9	4.644	
	KIO ₃	17		337	2073	9.7	5.800		17					
	THIO	18		338	715	10.5	7.346		18					
Notes:		19		339	638	11.3	7.428		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:	2016-47	1			340	1050	3.5	1.346		1					
Event:	92	2			341	658	3.3	1.335		2					
Station:	LSP 7	3			342	314	3.7	0.686		3					
Event Date (Local):	29 May 2016	4			343	306	4.0	0.373		4					
Analysis Date (Local):	30 May 2016	5			344	3108	4.5	0.255		5					
Analyst:	CS	6			345	3106	5.2	0.320		6					
Stdization Date (Local):	30 May 2016	7			346	3115	5.6	0.750	2111 3110	7	346	3101	5.7	0.756	
KIO ₃ N:	0.0121521	8			347	2087	5.9	1.233		8					
Standard Titer:	0.593	9			348	7063	6.3	1.901		9					
Blank Titer:	0.0004	10			349	458	6.5	2.227		10					
THIO N:	0.23478	11			350	1416	6.8	2.303		11					
Sample Flask Water Seal?	Yes	12			351	3098	7.0	2.665		12					
	No	13			352	2092	7.2	2.981		13					
Reagent Change?	MnCl ₂	14			353	1442	7.5	3.338		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			354	3103	7.8	3.627		15					
	H ₂ SO ₄	16			355	3094	8.2	4.128		16	355				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17			356	2090	8.8	4.963		17	356	462	8.9	4.962	
	THIO	18			357	1417	9.2	5.354		18					
Notes:		19			358	871	9.4	5.889		19					
		20			359	2049	11.2	7.253		20					
		21			360	2091	11.3	7.091	Spickett	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:	2016-47	1			367	708	3.6	1.861		1					
Event:	105	2			368	3192	3.8	10.1608		2					
Station:	CS00	3			369	3040	4.0	10.392		3					
Event Date (Local):	30 MAY 2016	4			370	303	4.1	10.262		4					
Analysis Date (Local):	31 MAY 2016	5			371A	3025	5.2	10.354		5	371B	SS7	5.4	0.337	
Analyst:	CS	6			372	3093	5.6	10.807		6					
Stdization Date (Local):	30 May 2016	7			373	3088	5.9	1.281		7					
KIO ₃ N:	0.0121501	8			374	3074	6.2	1.932		8					
Standard Titer:	0.5193	9			375	611	6.6	2.567		9					
Blank Titer:	6.0004	10			376	510	7.2	2.980		10					
THIO N:	0.234198	11			377	528	7.4	3.195		11					
Sample Flask Water Seal?	Yes	12			378A	3053	7.7	3.607		12	378B	3034	7.7	3.614	
Reagent Change?	MnCl ₂	13			379	612	7.8	4.109		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14			380	2078	8.0	4.455		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15			381	586	8.8	5.558		15					
	KIO ₃	16			382	2099	9.0	5.496		16					
	THIO	17			383	3043	9.5	5.911		17					
Notes:		18			384	3167	11.6	6.407		18					
		19			385	3175	12.3	6.379		19					
		20			386	3096	12.7	6.410		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	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:	2616-47						1			387	3049	3.2	0.261			1					
Event:	110						2			388	3057	3.5	0.688			2					
Station:	CSGZ						3	?		389	552	3.8	0.414	slight drip on 1 st check		3					
Event Date (Local):	31 May 2016						4			390	3067	4.5	0.271			4					
Analysis Date (Local):	31 May 2016						5			391A	3074	4.9	0.347			5	391B	3119	5.1	0.340	
Analyst:	CS						6			392	3076	5.5	0.185			6					
Stdization Date (Local):	30 May 2016						7			393	3020	5.8	1.270			7					
KIO ₃ N:	0.01215M						8			394	3052	6.3	1.795	cap on 8 was ajar		8					
Standard Titer:	0.5193						9			395	3062	6.4	2.255			9					
Blank Titer:	0.0004						10			396	3055	6.9	2.702			10					
THIO N:	0.234198						11			397	3065	6.9	3.047			11					
Sample Flask Water Seal?	Yes						12			398A	3075	7.1	3.486			12	398	3066	7.1	3.488	
Reagent Change?	MnCl ₂						13			399	3010	7.3	3.313			13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						14			400	3014	7.7	3.561			14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						15			401	3029	8.4	4.454			15					
	KIO ₃						16			402	1409	8.9	5.174			16					
	THIO						17			403	3041	9.7	5.890			17					
Notes:	3rd ash MB/CS						18			404	3072	10.9	6.304	7 B before A		18	404B	3054	10.9	6.304	
							19			405	3044	12.3	6.502			19					
							20			406	3051	12.5	6.508			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 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:	2016-47	1		406	1050	7.7	3.289		1					
Event:	113	2		407	658	8.6	4.483		2					
Station:	CS04	3		408	3114	9.2	5.199		3					
Event Date (Local):	31 May 2016	4		409a	3061	9.4	5.599	B before A	4	409b	3108	9.5	5.601	
Analysis Date (Local):	31 MAY 2016	5		410	3106	9.9	6.052		5					
Analyst:	CS	6		411	3110	10.7	6.714		6					
Stdization Date (Local):	30 May 2016	7	X	412	3101	11.3	6.815	top cap unseated	7					
KIO ₃ N:	0.0121524	8							8					
Standard Titer:	0.6193	9							9					
Blank Titer:	0.0004	10							10					
THIO N:	0.234198	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					
whale MB/N2		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:	2016-47	1			413	1050	8.7	5.012		1					
Event:	126	2			414	658	9.0	5.323	F7	2	414B	3114	9.0	5.322	
Station:	C506	3			415	3061	9.5	5.878		3					
Event Date (Local):	1 June 16	4			416	3108	9.9	6.235		4					
Analysis Date (Local):	2 JUNE 16	5			417	3106	12.1	6.810		5					
Analyst:	CS	6			418	3110	12.4	6.706		6					
Stdization Date (Local):	2 JUNE 16	7								7					
KIO ₃ N:	0.0121005	8								8					
Standard Titer:	0.5176	9								9					
Blank Titer:	0.0004	10								10					
THIO N:	0.234655	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:	MB/K7	19								19					
	whale	20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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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:	2016-47	1		419	3101		2.193	leaky vent	1					
Event:	129	2		420	2087	6.5	2.164		2					
Station:	C509	3		421	2063	6.6	2.158		3					
Event Date (Local):	1 June 16	4		422	458	6.7	2.202		4					
Analysis Date (Local):	2 JUNE 16	5		423	1416	7.5	3.301		5					
Analyst:	CS	6		424	3098	8.7	4.893		6					
Stdization Date (Local):	2 JUNE 2016	7		425a	2092	9.1	5.396		7	425b	1442	9.1	5.399	
KIO ₃ N:	0.012105	8		426	3103	9.3	5.404		8					
Standard Titer:	0.575	9		427	3094	9.8	5.670		9					
Blank Titer:	0.0004	10		428	2090	12.5	6.907		10					
THIO N:	0.234055	11		429	462	12.5	6.907		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:	2016-47						1			430	1417	6.7	2.21		1					
Event:	154.1						2			431	371	8.9	4.897		2	4318	2049	8.9	4.912	
Station:	QCS1						3			432	2091	9.5	5.468		3					
Event Date (Local):	2 JUNE 2016						4			433	3089	10.0	5.833		4					
Analysis Date (Local):	2 JUNE 2016						5			434	3095	12.1	6.901		5					
Analyst:	CS						6			435	2088	12.3	6.922		6					
Stdization Date (Local):	2 JUNE 2016						7								7					
KIO ₃ N:	0.0121025						8								8					
Standard Titer:	0.5176						9								9					
Blank Titer:	0.0004						10								10					
THIO N:	0.231055						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:	N2/CS						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.