

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information					Nisk ID	Nisk V	Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21					1	V	V	1	3084	8-10	9.5	4.197	b.t. of a short curve but E.P. ok	1				
Event: 001					2	V	V	2	3010	10	10.1	5.396		2				
Station: L7B01					3	V	X	3	2084	5	10.6	5.866		3				
Event Date (Local): MAY 28/14					4									4				
Analysis Date (Local): May 28, 2014					5									5				
Analyst: KS					6									6				
Stdization Date (Local): May 28, 2014					7									7				
KIO ₃ N: 0.0098571					8									8				
Standard Titer: 0.6997					9									9				
Blank Titer: 0.0040					10									10				
THIO N: 0.14182					11									11				
Sample Flask					12									12				
Water Seal?					13									13				
Reagent Change?					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.

Green Box

Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information				Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2814-81			1	✓	6	2008	6-10	9.8	4.079		1				
Event:	002			2	✓	7	396	30	10.3	5.203		2				
Station:	L302			3	✓	8a	303a	20	10.6	5.611		3	303a	10.6	5.638	ran a dummy sample to test port settings
Event Date (Local):	28/05/14			4	✓	9	55a	10	11.2	6.368	-Floater's. Noisy curve.	4				
Analysis Date (Local):	May 28, 2014			5	✓	10	3007	5	12.0	6.801	- " " "	5				
Analyst:	KS			6								6				
Stratification Date (Local):	May 28, 2014			7								7				
KIO ₃ N:	0.0098571			8								8				
Standard Titer:	0.6997			9								9				
Blank Titer:	0.0040			10								10				
THIO N:	0.1482			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)	NaI/NaOH			14								14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			15								15				
	KIO ₃			16								16				
	THIO			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	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21				1	X	14	108	8-10	9.0	7.315	messy curve, stringy stuff hanging from probe tip.	1				
Event: 004				2	V	15A	3034	75	9.6	3.756		2	B3014	9.7	3.752	
Station: LB04				3	V	16	2059	50	10.0	4.177		3				
Event Date (Local): 28 MAY 14				4	X	17	3023	30	10.5	5.019		4				
Analysis Date (Local): May 28, 2014				5	V	18	3020	20	11.4	6.219		5				
Analyst: KS				6	V	19	2056	10	12.6	6.715		6				
Standardization Date (Local): May 28, 2014				7	V	20	3021	5	12.9	6.762	Particles swirling around.	7				
KIO ₃ N: 0.0098571				8								8				
Standard Titer: 0.6997				9								9				
Blank Titer: 0.0040				10								10				
THIO N: 0.14182				11								11				
Sample Flask Water Seal? ☒ Yes				12								12				
Reagent Change? ☐ No				13								13				
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				14								14				
				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.

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Cruise and Analysis Information				Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014 - 21				1	✓	24	1443	105	11.8	2.271		1				
Event: 9				2	✓	25A	1411	75	11.9	3.662		2	1422	12.1	3.659	
Station: C306				3	✓	26	1428	50	12.3	4.105		3				
Event Date (Local): 28 MAI				4	?	27	1424	30	12.6	4.986	Top cap O2 vent problems.	4				
Analysis Date (Local): May 28, 2014				5	✓	28	1408	20	12.4	5.473		5				
Analyst: KS				6	✓	29	1422	10	12.0	6.006		6				
Stratization Date (Local): May 28, 2014				7	✓	30	1417	5	13.1	6.834		7				
KIO ₃ N: 0.0098571				8								8				
Standard Titer: 0.00405				9								9				
Blank Titer: 0.6997				10								10				
THIO N: 0.14182				11								11				
Sample Flask Water Seal? ☒ Yes				12								12				
Reagent Change? ☒ Yes				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				
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.

X = lost sample → broken O = sample ok - Flask must be discarded.

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Cruise Number:	2014-21			1		34 A	1401	100	8.6	1.805		1	1414	8.6	1.807	
Event:	19			2		35 A	1404	125	8.5	1.826		2	1426	8.6	1.826	
Station:	L B08			3	O	36 A	1429	120	8.6	1.947	-Flask lip broken off - probe lip not inserted all the way down into flask.	3	1418	8.7	1.959	-stopper was quite loose.
Event Date (local):	29 May 14			4	X	37	1421	100	8.8	—		4				
Analysis Date (local):	May 29, 2014			5	X	38	1400	75	9.2	—		5				
Analyst:	KS			6	O	39	1406	50	10.4	4.47	-neck was broken	6				
Standardization Date (local):	May 28, 2014			7		40	1416	30	10.4	5.128		7				
KIO ₃ N:	0.008571			8		41	1409	20	10.8	5.638		8				
Standard Titer:	0.6997			9		42 A	1446	10	13.0	0.333	-over-tilted sample. 1 st curve X	9	1445	13.0	—	
Blank Titer:	0.0040			10	X	43	1432	5	9.4	—	infection very rounded. FT=1.182 mL.	10				
THIO N:	0.14182			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)	NaI/NaOH			14								14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			15								15				
	KIO ₃			16								16				
	THIO			17								17				
				18								18				
Notes:	Box 3			19								19				
	SAMPLED TOP TO BOTTOM			20								20				
	↳ box fell from height while open. Samples shaken up. Some broken and lost. Allowed to settle			21								21				
				22								22				
				23								23				
				24								24				

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back down before analysis.

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Cruise and Analysis Information					Nisk ID	Nisk V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/l)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/l)	Comments
Cruise Number: 2014-21					1	✓	✓	46	3084	142	8.7	?	OT. Monkey curve. FT=0.331 mL	1				
Event: 21					2	✓	✓	47	3010	125	8.5	2.190	↳ 0.309 mL/L	2				
Station: LB09					3	✓	✓	48	2084	100	8.6	2.662		3				
Event Date (Local): May 29, 2014					4	✓	✓	49	2035	75	8.9	3.643		4				
Analysis Date (Local):					5	✓	✓	50	2069	50	9.3	4.309		5				
Analyst: KS					6	✓	✓	51	396	30	9.8	4.786		6				
Stdization Date (Local): May 28, 2014					7	✓	✓	52	3022	20	10.8	5.855		7	3032	10.7	5.856	
KIO ₃ N: 0.0098571					8	✓	✓	53	552	10	12.6	6.889		8				
Standard Titer: 0.6997					9	✓	✓	54	3007	5	12.9	6.724		9				
Blank Titer: 0.0040					10									10				
THIO N: 0.14182					11									11				
Sample Flask Water Seal? Yes					12									12				
					13									13				
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) MnCl₂ NaI/NaOH H₂SO₄ KIO₃ THIO					14									14				
NOTE NEW BATCH IN LOG BOOK					15									15				
					16									16				
					17									17				
					18									18				
Notes: GREEN BOX					19									19				
					20									20				
					21									21				
					22									22				
					23									23				
					24									24				

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Cruise and Analysis Information				Nisk ID	Nisk V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments			
Cruise Number: 2014-21				1	✓	✓	59	708	196	8.7	1.756		1							
Event: 26				2	✓	✓	60	3034	175	8.4	1.950		2							
Station: LB 11				3	✓	✓	61	3014	150	8.4	2.377		3							
Event Date (Local): 29/5/14				4	✓	✓	62	2059	125	8.6	3.041		4							
Analysis Date (Local): May 29, 2014				5	✓	✓	63	3023	100	8.6	3.862		5	3020	8.6	3.860				
Analyst: KS				6	✓	✓	64	2056	75	8.9	4.665		6							
Standardization Date (Local): May 28, 2014				7	✓	✓	65	3021	56	9.2	5.547		7							
KIO ₃ N: 0.0098571				8	✓	✓	66	3028	30	10.4	6.763		8							
Standard Titer: 0.6997				9	✓	✓	67	3037	20	11.5	6.929		9							
Blank Titer: 0.0040				10	✓	✓	68	3018	10	12.5	6.359		10							
THIO N: 0.14182				11	✓	✓	69	3035	5	13.3	6.333		11							
Sample Flask Water Seal? ☒ Yes				12									12							
Reagent Change? ☒ No				13									13							
Reagent Change? ☒ No (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK MnCl ₂ NaI/NaOH H ₂ SO ₄ KIO ₃ THIO				14									14							
				15											15					
				16												16				
				17												17				
				18												18				
Notes: Green Box				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.

high fix bottle 12

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group

Cruise and Analysis Information					Nisk ID	Nisk V	Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21					1	✓	✓	72	311	8.16	7.4	0.922	uncorg sample 10 (73)	1				
Event: 28					2	✓	✓	73	3196	400	7.4	1.156	" (74)	2				
Station: 4812					3	✓	✓	74	3142	300	7.6	1.468		3				
Event Date (Local): 29 May 14					4	✓	✓	75	2014	250	7.8	1.869		4	5218	7.9	1.873	
Analysis Date (Local): May 29, 2014					5	✓	✓	76	2049	200	8.2	2.277	- check exp. O2 curve	5				
Analyst: KS					6	✓	✓	77	3209	175	8.3	2.512		6				
Standardization Date (Local): May 28, 2014					7	✓	✓	78	1653	150	8.5	3.087		7				
KIO ₃ N: 0.0098571					8	✓	✓	79	712	125	8.6	3.455		8				
Standard Titer: 0.6997					9	✓	✓	80	2090	100	8.9	3.835		9				drippy spigot (slightly)
Blank Titer: 0.0040					10	✓	✓	81	3118	75	8.8	4.810		10				
THIO N: 0.14182					11	✓	✓	82	510	50	9.5	5.784		11				dripping spigot
Sample Flask Water Seal? Yes					12	✓	✓	83	2098	30	10.7	7.107		12				
					13	✓	✓	84	2661	20	12.0	6.857		13				
Reagent Change? MnCl ₂					14	✓	✓	85	2097	10	13.0	6.304		14				
(please circle reagent that was changed prior to sampling and standardization)					15	✓	✓	86	611	5	13.1	6.217		15				
NOTE NEW BATCH IN LOG BOOK					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.

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	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21				1	✓	91	1023	81-10	6.6	0.321		1				
Event: 30				2	✓	92	2068	1000	6.3	0.257		2	3000			
Station: L814				3	✓	93	3000	750	6.4	0.305	-was labeled #92 but Sups collected from bot 3	3	3030	6.4	0.276	??
Event Date (Local): 27 May 2014				4	✓	94	3164	500	6.8	0.809	Tested	4				
Analysis Date (Local): May 29, 2014				5	✓	95	557	400	7.4	1.127		5				
Analyst: KS				6	✓	96	622	300	7.8	1.515	Tested	6				
Standardization Date (Local): May 29, 2014				7	✓	97	2692	250	8.2	2.029		7				
KIO ₃ N: 0.0098571				8	✓	98	471	200	8.4	2.359		8				
Standard Titer: 0.6997				9	✓	99	3043	175	8.7	2.575	-residue on inside wall of flask.	9				
Blank Titer: 0.0020				10	✓	100	528	150	8.9	2.703	↳ large flakes swirling in	10				
THIO N: 0.1414				11	✓	101	3047	125	9.1	3.033	→ sample took long to dissolve	11	3009	9.1	3.029	
Sample Flask Water Seal? ☒ Yes				12	✓	102	371	100	9.0	3.033	14.319 ~30 sec before initiating the titration,	12				
Reagent Change? ☒ MnCl ₂				13	✓	103	209	75	9.0	5.237		13				
(Please circle reagent that was changed prior to sampling and standardization)				14	✓	104	2017	50	9.9	6.422		14				
NOTE NEW BATCH IN LOG BOOK				15	✓	105	3008	30	10.8	6.909		15				
				16	✓	106	3019	20	11.6	6.974		16				
				17	✓	107	2064	10	13.0	6.234		17				
				18	✓	108	658	5	13.0	6.232		18				
Notes: Silver Case				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	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21					1	✓	134	1023	64	12.9	1.039		1				
Event: 41					2	✓	135	2068	20	11.8	3.216		2				
Station: EEE 02					3	✓	136	3000	10	11.5	3.677		3				
Event Date (local): 30 May 2014					4	✓	137A	3030	5	12.9	7.460		4	3164	13.2	7.760	Bubble on lens
Analysis Date (local): 31 May 2014					5								5				
Analyst: HM					6								6				
Stabilization Date (local): 31 May 2014					7								7				
KIO ₃ N: 0.0098571					8								8				
Standard Titer: 0.6997					9								9				
Blank Titer: 0.0043					10								10				
THIO N: 0.14188					11								11				
Sample Flask					12	Yes							12				
Water Seal?					13	No							13				
Reagent Change?					14								14				
(Please circle reagent that was changed prior to sampling and standardization)					15								15				
NOTE NEW BATCH IN LOG BOOK					16								16				
					17								17				
					18								18				
Notes: SILVER BOX					19								19				
					20								20				
					21								21				
					22								22				
					23								23				
					24								24				

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Cruise and Analysis Information					Nisk ID	Nisk V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments	
Cruise Number: 2014-21					1	X	✓	123	622	191	8.3	0.070		1					
Event: 44					2	✓	✓	124	2092	175	8.2	0.042		2					
Station: EFF 05					3	✓	✓	125	471	150	8.2	0.063		3					
Event Date (Local): 30 May 2014					4	✓	✓	126	3043	125	8.4	0.217		4					
Analysis Date (Local): 31 May 2014					5	X	✓	127	528	100	8.4	0.040		5				Twp Cap	
Analyst: HM					6	✓	✓	128	3047	75	8.3	1.920		6					
Standardization Date (Local): 31 May 2014					7	✓	✓	129	3009	50	8.3	2.574		7					
KIO ₃ N: 0.0098571					8	✓	✓	130	371	30	8.3	3.283		8					
Standard Titer: 0.6997					9	X	✓	131A	2049	20	8.3	3.734	TDP CAB	9	2017	8.4	3.725		
Blank Titer: 0.0043					10			132	3005	10	8.4	4.234		10					
THIO N: 0.14188					11			133	3019	5	9.1	5.567		11					
Sample Flask Water Seal? ☒ Yes					12									12					
Reagent Changed? ☐ No					13									13					
Reagent Changed? ☐ No (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK MnCl₂ Na₂/NaOH H₂SO₄ KIO₃ THIO					14									14					
					15										15				
					16										16				
					17										17				
					18										18				
Notes: Silver Box					19									19					
					20									20					
					21									21					
					22									22					
					23									23					
					24									24					

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Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information					Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21					1	✓	116	3111	83	8.4	3.668		1				
Event: 53					2	✓	117	3190	75	8.3	3.696		2				
Station: EFF-12					3	✓	118A	3142	50	8.3	3.532		3	2014	8.3	3.550	
Event Date (Local): 30 May 2014					4	✓	119	621	30	8.4	4.080		4				
Analysis Date (Local): 31 May 2014					5	✓	120	2049	20	8.6	4.331		5				
Analyst: HM					6	✓	121	3809	10	8.9	5.433		6				BAD CURVE
Stratization Date (Local): 31 May 2014					7	✓	122	1053	5	11.7	7.636		7				
KIO ₃ N: 0.0098571					8								8				
Standard Titer: 0.6997					9								9				
Blank Titer: 0.0043					10								10				
THIO N: 0.14186					11								11				
Sample Flask					12	Yes							12				
Water Seal?					13	No							13				
Reagent Changed?					14	MnCl ₂ #1401							14				
(Please circle reagent that was changed prior to sampling and standardization)					15	NaI/NaOH							15				
NOTE NEW BATCH IN LOG BOOK					16	H ₂ SO ₄							16				
					17	KIO ₃							17				
					18	THIO							18				
Notes: BLUE BOX					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.

yellow.
#000 thermomater

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information					Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments	
Cruise Number: 2014-21					1	✓	✓	138	2090	10	8.1	3.447	-	1				
Event: 55					2	✓	✓	139	3118	75	8.1	3.538	-	2				
Station: LC01					3	✓	✓	140	510	50	8.3	3.949	-	3	2098	8.3	3.956	
Event Date (Local): 31 May 14					4	✓	✓	141	2061	30	8.5	4.137	-	4				
Analysis Date (Local): 31 May 2014					5	✓	X	142	2097	20	8.9	4.647		5				
Analyst: KS					6	✓	✓	143	611	10	10.2	5.644		6				
Standardization Date (Local): 0.00985715					7	✓	✓	144	3067	5	10.3	5.745		7				
KIO ₃ N: May 31 2014					8									8				
Standard Titer: 0.6997					9									9				
Blank Titer: 0.0043					10									10				
THIO N: 0.14188					11									11				
Sample Flask					12									12				
Water Seal? ☒ Yes					13									13				
Reagent Change? ☐ No					14									14				
Reagent Change? ☐ No					15									15				
(Please circle reagent that was changed prior to sampling and standardization)					16									16				
NOTE NEW BATCH IN LOG BOOK					17									17				
LOG BOOK					18									18				
Notes:					19									19				
blue box					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

Cruise and Analysis Information				Nisk ID	Nisk V	Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21				1	✓	✓	147	612	bot-10	8.1	3.323		1				
Event: 56				2	✓	✓	148 ^A	3124	75	8.3	3.908		2	2087 ^B	8.4	3.905	
Station: LCO2				3	✓	✓	149	3061	50	8.5	?	→ OT, FT=0.742.	3				
Event Date (Local): 31 May 2014				4	✓	✓	150	1059	40	8.6	4.198	OT=0.058 mL (0.289 mL/L)	4				
Analysis Date (Local): 31 May 2014				5	✓	✓	151	2089	30	8.8	4.379		5				
Analyst: KS				6	✓	✓	152	94	20	9.3	?		6				
Standardization Date (Local): 31 May 2014				7	✓	✓	153	1002	10	11.3	6.330	-OT, FT=0.839	7				
KIO ₃ N: 0.0098571				8	✓	✓	154	2095	5	11.7	6.543	OT=0.059 mL (0.318 mL/L)	8				
Standard Titer: 0.6997				9								Fluores	9				
Blank Titer: 0.0043				10									10				
THIO N: 0.14188				11									11				
Sample Flask Water Seal? ☒ Yes				12									12				
Reagent Change? ☐ No				13									13				
Reagent Change? ☐ No (Please circle reagent that was changed prior to sampling and standardization)				14									14				
NaI/NaOH				15									15				
H ₂ SO ₄				16									16				
KIO ₃				17									17				
THIO				18									18				
Notes: lid				19									19				
white box				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

157 - increased depth in Astor (237).

Cruise and Analysis Information				Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21				1	✓	162	2091	8.46	8.2	3.387		1				
Event: 58				2	✓	163	3016	150	8.1	3.376	-63" instead of 163.	2				
Station: LC01				3	✓	164	650	125	8.1	3.461	- may have wrong depth in software.	3				
Event Date (Local): 31 May 2014				4	✓	165	3116	100	8.2	3.573		4	2017	8.2	3.576	redraw.
Analysis Date (Local): 31 May 2014				5	✓	166	1045	75	8.3	3.714	- jelly tentacles all over probe and dose tip.	5				redraw.
Analyst: KS				6	✓	167	1035	50	8.8	4.414		6				redraw.
Standardization Date (Local): 31 May 2014				7	✓	168	2060	30	9.4	5.093	- bubble under stopper.	7				
KIO ₃ N: 0.0098571				8	✓	169	2000	20	10.3	6.052		8				redraw.
Standard Titer: 0.6997				9	✓	170	2082	10	13.1	6.602		9				
Blank Titer: 0.0043				10	✓	171	570	5	12.7	6.483		10				
THIO N: 0.14188				11								11				
Sample Flask Water Seal? Yes				12								12				
Reagent Change? No				13								13				
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				14								14				
				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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				Nisk ID	Nisk Int V	Sample S ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments	
Cruise Number: 2014-21				1	✓	✓	173	3084	82	7.9	2.674		1				redrawn
Event: 61				2	✓	✓	174	3016	75	7.9	3.792		2				
Station: 1C06				3	✓	✓	175	2084	50	8.6	3.927		3				
Event Date (Local): 31 May 14				4	✓	✓	176	2035	40	8.8	4.201		4				
Analysis Date (Local): 31 May 2014				5	✓	✓	177	2069	30	9.9	3.425		5				
Analyst: KS				6	✓	X	178	3964	20	10.9	6.429		6	3032	11.0	6.424	
Stratization Date (Local): 31 May 2014				7	✓	✓	179	3002	10	13.1	6.692		7				
KIO ₃ N: 0.0098571				8	✓	✓	180	552	5	13.8	6.418		8				
Standard Titer: 0.697				9									9				
Blank Titer: 0.0043				10									10				
THIO N: 0.14188				11									11				
Sample Flask Water Seal? <u>Yes</u>				12									12				
Reagent Change? <u>No</u>				13									13				
Reagent Change? <u>MnCl₂</u> (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				
Notes: <u>Green Box</u>				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

Cruise and Analysis Information															
Cruise Number:	2014-21	Nisk ID	1	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Event:	64	2	✓	✓	182	304	1877	7.3	1.627		1				
Station:	LC08	3	✓	✓	183	708	175m	7.4	1.705		2				
Event Date (local):	31 May 2014	4	✓	✓	184	3034	150	7.5	2.083		3				
Analysis Date (local):	31 May 2014	5	✓	✓	185	3014	125	7.7	3.517		4				spigot slightly leaking
Analyst:	K5	6	✓	✓	186	2059	100	7.7	4.703		5				
Standardization Date (local):	31 May 2014	7	✓	✓	187	3023	75	8.6	5.571		6				
KIO ₃ N:	0.0098571	8	✓	✗	188	2056	30	9.4	5.153		7				
Standard Titer:	0.6997	9	✓	✓	189	3028	20	10.0	5.360		8	3021	9.4	5.151	miniature spigot leak
Blank Titer:	0.0043	10	✓	✓	191	3037	10	10.5	6.506		9				
THIO N:	0.14188	11	✓	✓	192	3018	5	12.7	6.503		10				
Sample Flask Water Seal?	Yes	12									11				
Reagent Change?	MnCl ₂	13									12				
(please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14									13				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15									14				
	KIO ₃	16									15				
	THIO	17									16				
Notes:		18									17				
		19									18				
		20									19				
		21									20				
		22									21				
		23									22				
		24									23				
											24				

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21				1	X	194	1174	411	6.9	1.811		1				
Event: 68				2	✓	195	1134	350	6.9	1.216		2				
Station: 0NC				3	✓	196	1142	300	7.1	1.379		3				
Event Date (local): 2014-05-31				4	✓	197	1177	250	7.3	1.516		4				
Analysis Date (local): 31 May 2014				5	✓	198	1127	200	7.5	1.621		5	1175	7.7	1.632	
Analyst: KS				6	✓	199	1150	175	7.6	1.916		6				
Stratization Date (local): 31 May 2014				7	✓	200	1188	150	7.8	2.405		7				
KIO ₃ N: 0.0098571				8	✓	201	1180	125	7.9	3.064		8				
Standard Titer: 0.6997				9	✓	202	1192	100	7.6	4.540		9				
Blank Titer: 0.0013				10	✓	203	1106	75	8.3	5.251		10				
THIO N: 0.11188				11	✓	204	1119	50	8.5	4.451		11				
Sample Flask Water Seal? ☒ Yes				12	✓	205	1141	30	9.0	5.514		12				
Reagent Changed? ☐ No				13	X	206						13				
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				14								14				
				15								15				
				16								16				
				17								17				
				18								18				
Notes: Metal Box #1 Very windy during sampling				19								19				
				20								20				
				21								21				
				22								22				
				23								23				
				24								24				

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

Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21				1		206	3111	601	5.7	0.388		1				
Event: 69				2		207	3190	500	6.0	0.763		2				
Station: LCO9				3		208	3142	400	6.3	1.044		3				
Event Date (Local): 31 May 2014				4		209	601	300	7.1	1.39 → 1.391		4	2014	7.1	1.406	
Analysis Date (Local): 31 May 2014				5		210	2049	250	7.3	1.578		5	2049			
Analyst: KS				6		211	3209	200		1.967	slow spigot leak	6				
Standardization Date (Local): 31 May 2014				7		212	1053	175	7.7	2.172		7				
KIO ₃ N: 0.0098571				8		213	712	150	7.9	2.349		8				
Standard Titer: 0.6997				9		214	2090	125	7.9	2.994		9				
Blank Titer: 0.0043				10		215	3118	100	7.7	4.222		10				
THIO N: 0.14188				11		216	510	75	8.1	4.903		11				
Sample Flask Water Seal? ☒ Yes				12		217	2098	50	8.8	4.834	side drawn after ab slow spigot leak	12	2061	8.7	4.796	wrong depth in AutoOxy
				13		218	2097	40	8.9	4.976	Did not rinse flask of reagent sufficiently?	13				
Reagent Change? ☐ No				14		219	611	30	9.4	5.601		14				
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				15		220	3067	20	10.1	5.910		15				
				16		221	468	10	11.9	6.484		16				
				17		222	1094	5	12.9	6.484		17				
				18								18				
				19								19				
Notes: Blue Box bushy it				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

WHITE

Cruise and Analysis Information				Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014 - 21				1	✓	228	612	1476	5.6	0.494		1				
Event: 72				2	✓	229	3124	1250	5.6	0.393		2				
Station: LC11				3	✓	230	2037	1000	5.9	0.256		3				
Event Date (Local): May 31/14				4	✓	231	3061	750	6.1	0.228		4				
Analysis Date (Local): 01 June 2014				5	✓	232A	1059	500	6.5	0.633		5	2081B	7.0	0.635	Re-draw, bubbles in 1st sample
Analyst: KS				6	✓	233	94	400	6.9	1.002		6				
Standardization Date (Local): 31 May 2014				7	✓	234	1002	300	7.3	1.498		7				
KIO ₃ N: 0.0088571				8	X	235	2095	250	7.5	2.010	slow leak	8				slow leak
Standard Titer: 0.6997				9	✓	236	1055	200	7.7	2.350		9				
Blank Titer: 0.0043				10	✓	237	2091	175	7.9	2.895		10				
THIO N: 0.14188				11	✓	238	3016	150	8.0	2.993		11				
Sample Flask Water Seal? ☒ Yes				12	✓	239A	650	125	8.2	4.626		12	3116B	8.3	4.529	-???
Reagent Changed? ☐ No				13	✓	240	2047	100	8.1	6.079		13				
Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				14	✓	241	1015	75	8.3	8.143		14				
				15	✓	242	1035	50	9.0	9.816		15				
				16	✓	243	2000	30	10.0	11.331		16				
				17	✓	244	2000	20	11.7	11.444		17				
				18	✓	245	570	10	13.5	9.903		18				
Notes:				19	✓	246	2080	5	13.6	10.367		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

Cruise and Analysis Information					Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 8014 - 21					1	✓	248	1023	1623	2.7	0.901		1				
Event: 75					2	✓	249	2068	1500	3.8	0.656		2				
Station: CD11					3	✓	250A	3000	1250	4.1	0.422		3	3030B	4.3	0.414	
Event Date (Local): 1/6/14					4	✓	251	3164	1000	4.8	0.240		4				
Analysis Date (Local): 01 June 2014					5	✓	252	557	750	5.4	0.585 0.246	-2 stir bars but mixing well.	5				
Analyst: KS					6	✓	253	632	500	6.1	0.685		6				
Stdization Date (Local): 31 May 2014					7	✓	254	2092	400	6.4	1.049		7				
KIO ₃ N: 0.0098571					8	✓	255	471	300	6.7	1.678		8				
Standard Titer: 0.6997					9	✓	256	3043	250	7.1	2.191		9				
Blank Titer: 0.0043					10	✓	257	528	200	7.5	2.704		10				
THIO N: 0.14188					11	✓	258	3097	175	7.7	2.988		11				
Sample Flask Water Seal? ☒ Yes					12	✓	259	3009	150	7.9	3.078		12				
Reagent Change? ☐ No					13	✓	260A	371	125	8.1	3.320		13	2099B	8.2	3.323	
Reagent Change? ☐ MnCl₂ (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK ☐ NaI/NaOH ☒ H₂SO₄ ☐ KIO₃ ☐ THIO					14	✓	261	2017	100	8.1	4.292		14				
					15	✓	262	3005	75	8.2	5.247		15				
					16	✓	263	3019	50	8.8	6.225		16				
					17	✓	264	2064	30	10.7	7.180		17				
					18	✓	265	658	20	12.5	6.789		18				
Notes: Silver Box					19	✓	266	3055	10	13.6	6.204		19				
					20	✓	267	3094	5	13.6	6.198		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.

Alskin 18 leaving out of bottom cap
before sampled from.

Last Updated: March 2014

before sampled down

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21				1	✓	288	623	126.5	7.3	1.937		1				
Event: 81				2	✓	289	2008	100	8.0	4.263		2				LEAKY SPIGOT AFTER O ₂ S
Station: L2006				3	✓	290	3000	75	7.9	5.423		3				
Event Date (Local): 15 June 2014				4	✓	291	3300	50	8.9	6.029		4				
Analysis Date (Local): 1 June 2014				5	✓	292	3404	30	9.6	6.260		5				
Analyst: KS				6	✓	293	557	20	9.8	6.318		6				
Stratification Date (Local): 31 May 2014				7	✓	294	622	10	11.5	6.798	Noisy curve, Floater's.	7	2092	11.6	6.796	Noisy Floater's.
KIO ₃ N: 0.0098571				8	✓	295	471	5	12.7	6.802	Noisy Floater's.	8				
Standard Titer: 0.6997				9								9				
Blank Titer: 0.0643				10								10				
THIO N: 0.14188				11								11				
Sample Flask Water Seal? ☒ Yes				12								12				
Reagent Changed? ☐ No				13								13				
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				14								14				
				15								15				
				16								16				
				17								17				
				18								18				
Notes: Silver Box				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

Cruise and Analysis Information				Nisk ID	Nisk V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21				1			298	528	52	8.6	3.776		1				
Event: 83				2	✓	✓	299	3047	30	8.8	4.181		2				
Station: L004				3	✓	✓	300A	3009	20	10.7	6.267		3	371	10.7	6.274	
Event Date (Local): 1 Jun 2014				4	✓	✓	301	2099	10	13.7	6.594		4				
Analysis Date (Local): 1 June 2014				5	✓	✓	302	2017	5	13.9	6.559		5				
Analyst: KS				6									6				
Stdization Date (Local): 31 May 2014				7									7				
KIO ₃ N: 0.0098571				8									8				
Standard Titer: 0.6997				9									9				
Blank Titer: 0.0043				10									10				
THIO N: 0.14188				11									11				
Sample Flask				12									12				
Water Seal?				13									13				
Reagent Changer?				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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				Nisk ID	Nisk V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21				1	✓	✓	304	612	38	8.6	X	- Titration started @ 7100% → Took a long time and program decided to freeze mid titration - sample lost.	1				
Event: 8C				2	✓	✓	305	3124	30	8.7	4.042		2				
Station: 2002				3	✓	✓	306A	2087	20	9.3	4.748		3	3061 ₅	9.3	4.735	
Event Date (Local): June 1 / 14				4	✓	✓	307	1059	10	12.4	7.219		4				
Analysis Date (Local): 01 June 2014				5	X	X	308	2089	5	12.7	6.906	TOP CAP	5				
Analyst: KS				6									6				
Standardization Date (Local): 31 May 2014				7									7				
KIO ₃ N: 0.0098571				8									8				
Standard Titer: 0.6997				9									9				
Blank Titer: 0.0043				10									10				
THIO N: 0.14188				11									11				
Sample Flask				12		Yes							12				
Water Seal?				13		No							13				
Reagent Change?				14		MnCl ₂							14				
(Please circle reagent that was changed prior to sampling and standardization)				15		NbI/NaOH							15				
NOTE NEW BATCH IN LOG BOOK				16		H ₂ SO ₄							16				
				17		KIO ₃							17				
				18		THIO							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

Cruise and Analysis Information				Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-01				1		314	1002	30	9.1	4.387		1				
Event: 88				2	✓	315	2095	20	9.7	5.066		2				
Station: LDO1				3	✓	316	1055A	10	11.7	6.649		3	2091B	11.7	6.659	
Event Date (Local): June 1/14				4	✓	317	3016	5	12.7	7.077		4				
Analysis Date (Local): 01 June 2014				5								5				
Analyst: KS				6								6				
Stdization Date (Local): 31 May 2014				7								7				
KIO ₃ N: 0.0098571				8								8				
Standard Titer: 0.6997				9								9				
Blank Titer: 0.0043				10								10				
THIO N: 0.1488				11								11				
Sample Flask ☒ Yes				12								12				
Water Seal? No				13								13				
Reagent Change? ☒ Yes				14								14				
(Please circle reagent that was changed prior to sampling and standardization)				15								15				
NOTE NEW BATCH IN LOG BOOK				16								16				
				17								17				
				18								18				
Notes:				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

Cruise and Analysis Information			
Cruise Number:	2014 - 21		
Event:	89		
Station:	K501		
Event Date (Local):	01.06.14		
Analysis Date (Local):	02 June 2014		
Analyst:	KS		
Standardization Date (Local):	02 June 2014		
KIO ₃ N:	0.0098571		
Standard Titer:	0.7000		
Blank Titer:	0.0030		
THIO N:	0.14155		
Sample Flask Water Seal?	Yes		
Reagent Changed?	MnCl₂		
(Please circle reagent that was changed prior to sampling and standardization)			
H₂SO₄ 1401			
NOTE NEW BATCH IN LOG BOOK			
KIO₃			
THIO			
Notes: WHITE Box			

Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments
1	X	319	612	43	8.6	4.236	vent wasn't tight enough
2	✓	320	3124	30	8.6	4.301	
3	✓	321	2087A	20	9.1	4.874	
4	✓	322	1059	10	9.3	5.000	
5	✓	323	2089	5	11.6	8.314	
6							
7							
8							
9							
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20							
21							
22							
23							
24							

Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
1				
2				
3	3618	9.1	4.877	
4				
5				
6				
7				
8				
9				
10				
11				
12				
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Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				Nisk ID	Nisk V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014 - 21				1	✓	✓	325	1002	91	7.6	3.591		1				
Event: 90				2	✓	✓	326	2095	75	7.9	3.858		2				
Station: 2 G02				3	✓	✓	327A	1055	50	8.3	5.496		3	2091	8.3	5.490	
Event Date (local): 1 JUL 2014				4	✓	✓	328	3016	30	9.1	?	- EP filter = 1.071 → program crash	4				
Analysis Date (local): 02 June 2014				5	✓	✓	329	650	20	9.6	6.114	- wrong depth in after endpoint	5				
Analyst: KS				6	x	✓	330	3116	10	10.1	6.456	Ascorby (320)	6				
Standardization Date (local): 02 June 2014				7	✓	✓	331	2047	5	12.1	?		7				
KIO ₃ N: 0.0098571				8									8				
Standard Titer: 0.7000				9									9				
Blank Titer: 0.0630				10									10				
THIO N: 0.14155				11									11				
Sample Flask Water Seal? ☒ Yes				12									12				
Reagent Change? ☐ No				13									13				
Reagent Change? ☒ MnCl ₂ (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				
Notes: WHITE BOX				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

Cruise and Analysis Information					Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21					1	✓	340	1023	137	7.3	2.323		1				
Event: 93					2	✓	341	2068	125	7.4	2.526		2				
Station: LG04					3	✓	342	3000	100	7.6	3.453		3				
Event Date (local): June 1 / 14					4	✓	343A	3030	75	7.5	4.390		4	316g	7.5	4.390	
Analysis Date (local): 02 June 2014					5	✓	344	557	50	8.0	8.625		5				
Analyst: KS					6	✓	345	622	30	8.1	6.207		6				
Standardization Date (local): 02 June 2014					7	✓	346	2092	20	9.1	6.229	Noisy curve. E.P. seems ok.	7				
KIO ₃ N: 0.0098571					8	✓	347	471	10	11.1	6.320		8				
Standard Titer: 0.7000					9	✓	348	3043	5	11.6	6.558		9				
Blank Titer: 0.0030					10								10				
THIO N: 0.14155					11								11				
Sample Flask Water Seal? ☒ Yes					12								12				
Water Seal? No					13								13				
Reagent Changed? ☐ MnCl ₂					14								14				
(please circle reagent that was changed prior to sampling and standardization)					15								15				
NOTE NEW BATCH IN LOG BOOK					16								16				
					17								17				
					18								18				
Notes: GREY Box					19								19				
					20								20				
					21								21				
					22								22				
					23								23				
					24								24				

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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

40m

Cruise and Analysis Information																	
Cruise Number:	2014 - 21			Nisk ID	Nisk V	Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Event:	96			1	✓	✓	351	3084	1002	4.9	0.342		1				
Station:	LG06			2	✓	✓	352	3010	750	5.4	0.268		2				
Event Date (Local):	27 Jun 2014			3	X	✓	353A	2084	500	5.8	0.761		3	2035	5.9	0.742	A - slight leak on vent
Analysis Date (Local):	02 June 2014			4	✓	✓	354	2061	400	6.3	1.034		4				
Analyst:	KS			5	✓	✓	355	396	300	6.7	1.554	- Noisy. Stringy particles in sample	5				
Stratification Date (Local):	02 June 2014			6	X	✓	356	3032	250	7.1	1.882	Picoplankton cleared.	6				slight vent leak
KIO ₃ N:	0.0098571			7	✓	✓	357	3022	200	7.3	2.036		7				
Standard Titer:	0.7000			8	✓	✓	358	552	175	7.5	2.169		8				
Blank Titer:	0.0030			9	✓	✓	359	3007	150	7.5	3.919		9				
THIO N:	0.14155			10	✓	✓	360	3104	125	7.5	4.389		10				
Sample Flask Water Seal?	☒ Yes			11	✓	✓	361	708	100	7.5	4.857		11				
Reagent Change?	MnCl ₂			12	✓	✓	362	3034	75	8.0	5.459		12				
(Please circle reagent that was changed prior to sampling and standardization)	NaOH			13	✓	✓	363	3014	50	8.7	5.987		13				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			14	✓	✓	364A	2059	30	9.3	5.581		14	3023	9.3	5.584	
	KIO ₃			15	✓	✓	365	3020	20	10.8	6.461		15				
	THIO			16	✓	✓	366	2056	10	11.5	6.511		16				
Notes:				17	✓	✓	367	3021	5	11.5	6.505		17				
				18									18				
				19									19				
				20									20				
				21									21				
				22									22				
				23									23				
				24									24				

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				Nisk ID	Nisk V	Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments			
Cruise Number: 2944-21				1	X	✓	370	1023	7005	3.0	1.355		1					vent leaking		
Event: 105				2	✓	✓	371A	2068	1500	3.0	0.594		2	3000	3.8	0.510				
Station: 1807				3	✓	✓	372	3030	1250	4.1	0.397		3							
Event Date (Local): 3 Jun 2014				4	✓	✓	373	3164	1000	4.7	0.241		4							
Analysis Date (Local): 03 June 2014				5	X	✓	374	557	750	5.5	0.247		5					vent leaking		
Analyst: KS				6	✓	✓	375	622	500	5.9	0.673		6							
Standardization Date (Local): 01 June 2014				7	✓	✓	376	2072	400	6.3	1.121		7							
KIO ₃ N: 0.0098571				8	✓	✓	377A	471	300	6.6	1.998		8	3053	6.7	2.004				
Standard Titer: 0.7000				9	✓	✓	378	528	250	7.0	2.644		9							
Blank Titer: 0.0030				10	✓	✓	379	3047	200	7.4	3.025		10							
THIO N: 0.1415				11	✓	✓	380	3009	175	7.5	3.672		11							
Sample Flask Water Seal? ☒ Yes				12	✓	✓	381	371	150	7.6	3.984		12							
				13	✓	✓	382	2079	125	7.7	4.8	4.285	13					redraw. X2		
Reagent Change? ☐ No				14	✓	✓	383	2017	100	7.8	5.775		14					redraw		
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				15	✓	✓	384	3005	75	8.4	6.301		15							
				16	✓	✓	385	3019	50	9.4	6.442		16							
				17	✓	✓	386A	2064	40	9.6	9.7	6.268	17						redraw	
				18	✓	✓	387	3055	30	10.2	6.429		18	158	10.2	6.556			redraw B	
				19	✓	✓	388	3074	20	10.2	6.450		19						such. reagent not rinsed	
Notes:				20	✓	✓	389	2051	10	10.2	6.462		20							
				21	X	✓	390	3074	5	10.3	6.467		21						vent leaking	
				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: March 2014

Cruise and Analysis Information				Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21				1	✓	392	3084	1218	5.0	0.375		1				
Event: 107				2	✓	393	3010	1318	4.8	0.378		2				
Station: 48P5				3	✓	394	2084	1000	5.2	0.299		3				
Event Date (local): 3 Jun 2014				4	✓	395	2035	750	5.6	0.281		4	2069	5.6	0.279	
Analysis Date (local): 3 June 14				5	✓	396	396	500	6.1	0.662		5				
Analyst: KS				6	✓	397	3032	400	6.2	0.827		6				
Stratization Date (local): 1 June 2014				7	✓	398	3022	300	6.5	1.299		7				
KIO ₃ N: 0.6098571				8	✓	399	552	250	6.5	1.527		8				
Standard Titer: 0.7000				9	✓	400	3007	200	6.9	1.825		9				
Blank Titer: 0.0030				10	✓	401	3104	175	6.9	2.062		10				
THIO N: 0.14155				11	✓	402	708	150	7.0	2.171		11				
Sample Flask Water Seal? ☒ Yes				12	✓	403	3034	125	7.2	2.491		12	3014	7.2	2.481	-EP may be early. Must check
Reagent Changed? ☐ No				13	✓	404	2059	100	7.2	2.907		13				
Reagent Changed? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK ☒ MnCl₂ ☒ NaI/NaOH ☒ H₂SO₄ ☒ KIO₃ ☒ THIO				14	✓	405	3023	75	7.3	3.818		14				
				15	✓	406	3020	50	7.4	4.100		15				
				16	✓	407	2056	40	7.9	4.527		16				
				17	✓	408	3021	30	8.1	5.116		17				
				18	✓	409	3018	20	8.3	5.247		18				
Notes:				19	✓	410	3037	10	9.5	5.808		19	3018	9.5	5.805	
				20	✓	411	3035	5	9.8	5.912		20				
				21								21				
				22								22				
				23								23				
				24								24				

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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				Nisk ID	Nisk V	Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21				1	✓		413	3111	158	6.6	1.807		1				
Event: 110				2	✓		411	3170	150	6.7	1.826		2				
Station: LBP3				3	✓		415a	3142	125	6.7	1.965		3	2014		1.960	A bit noisy.
Event Date (Local): 3 Jun 2014				4	✓		416	621	100	6.9	2.103		4				
Analysis Date (Local): 3 June 2014				5	✓		417	2049	75	7.0	2.384		5				
Analyst: KS				6	✓	x	418	3209	50	7.6	3.788	Slow leak	6				
Standardization Date (Local): 01 June 2014				7	✓		419	1053	40	7.8	4.233		7				
KIO ₃ N: 0.0018871				8	✓		420	712	30	8.2	4.643		8				
Standard Titer: 0.7000				9	✓		421	2070	20	9.1	5.510	-removed jelly tentacles from	9				
Blank Titer: 0.0030				10	✓		422	3118	10	9.2	5.619	probe before initializing titration.	10				
THIO N: 0.14155				11	✓	✓	423	510	5	9.3	5.647		11				
Sample Flask Water Seal? ☒ Yes				12									12				
				13									13				
Reagent Change? ☒ No				14									14				
(Please circle reagent that was changed prior to sampling and standardization)				15									15				
NOTE NEW BATCH IN LOG BOOK				16									16				
				17									17				
				18									18				
Notes:				19									19				
				20									20				
				21									21				
				22									22				
				23									23				
				24									24				

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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				Nisk ID	Nisk V	Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21				1	✓	✓	434	3084	2005	2.8	1.310		1				
Event: 123				2	✓	✓	435	3010	1500	3.3	0.603		2				bottom seal leaking
Station: CS00 45 Jun 2014				3	✓	✓	436	2084	1250	3.7	0.404	-Flask is broken but not leaking	3				
Event Date (local): 4/6/14				4	✓	✓	437	2035	1000	4.2	0.243	Horizontal crack along bottom	4				
Analysis Date (local): 04 June 2014				5	✓	✓	438A	2069	750	5.1	0.328	Started to leak slowly after removing stopper	5	4386	5.1	0.329	
Analyst: KS				6	✗	✓	439	3032	500	6.1	0.516		6				slight leak on vent
Stratization Date (local): 04 June 2014				7	✓	✓	440	3022	400	6.1	1.032		7				
KIO ₃ N: 0.0098571				8	✓	✓	441	552	300	6.5	1.791		8				
Standard Titer: 0.6993				9	✓	✓	442	3067	250	6.9	2.035		9				
Blank Titer: 0.0033				10	✓	✓	443	3104	200	7.1	2.378		10				
THIO N: 0.14176				11	✓	✓	444	708	175	7.4	2.872		11				
Sample Flask Water Seal? ☒ Yes				12	✓	✓	445	3034	150	7.5	2.928		12				
Reagent Change? ☒ NaI/NaOH 13MIX				13	✓	✓	446A	3014	125	7.6	3.571		13	2059	7.7	3.570	redraw A
(Please circle reagent that was changed prior to sampling and standardization)				14	✓	✓	447	3023	100	7.6	4.268		14				
NOTE NEW BATCH IN LOG BOOK				15	✓	✓	448	3020	75	7.8	4.967		15				
				16	✓	✓	449	2056	50	8.5	5.998		16				
				17	✓	✓	450	3021	30	9.3	6.464		17				
				18	✓	✓	451	3028	20	11.1	6.628		18				
Notes:				19	✓	✓	452A	3037	10	11.7	6.570	- A bit noisy but e.p. seems ok	19	4308	11.8	6.569	
				20	✓	✓	453	3035	5	11.7	6.568		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

BLUE 1

Cruise and Analysis Information				Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-21				1	✓	455	3111	1910	4.2	1.192		1				
Event: 130				2	✓	456	3190	1500	4.5	0.615	Really slow vent	2				
Station: C502				3	✓	457	3142	1250	4.8	0.342		3				
Event Date (local): 04 June 2014				4	✗	458	2014	1000	5.2	0.237	TOP CAP	4				
Analysis Date (local): 05 June 2014				5	✓	459	621	750	5.6	0.256	→	5	2049	5.7	0.254	
Analyst: KS				6	✓	460	3209	500	6.1	0.594		6				
Standardization Date (local): 04 June 2014				7	✓	461	1053	400	6.3	1.078		7				
KIO ₃ N: 0.0098571				8	✓	462	712	300	6.7	1.693	SPIGOT LEAKS	8				
Standard Titer: 0.6993				9	✓	463	2090	250	7.1	1.980		9				
Blank Titer: 0.0033				10	✓	464	3118	200	7.3	2.359		10				
THIO N: 0.14176				11	✓	465	510	175	7.6	2.490		11				
Sample Flask Water Seal? Yes				12	✓	466	2098	150	7.7	2.844	→	12	2061	7.7	2.844	
Reagent Changed? MnCl₂				13	✓	467	2097	125	7.5	4.043		13				

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Green

Cruise and Analysis Information				Nisk ID				Nisk Int				Sample				Flask 1				Depth				Draw				OXY 1				Comments			
Cruise Number:	2014-21			ID	1			V	✓			S	✓			ID	476			3084	90	7.9	4.033												
Event:	134				2				✓				✓				477			3010	75	8.5	4.817												
Station:	C504				3				✓				✓				478			2035	50	9.4	5.824												
Event Date (Local):	JUNE 4/14				4				✓				✓				479A			2069	30	10.2	6.283												
Analysis Date (Local):	05 June 2014				5				✓				✓				480			3032	20	10.3	6.418												
Analyst:	KS				6				✓				✓				481			3033	10	10.6	6.754												
Stratization Date (Local):	04 June 2014				7				✓				✓				482			3022	5	11.0	6.856	- Particles swirling in sample.											
KIO ₃ N:	0.0098571				8																														
Standard Titer:	0.6993				9																														
Blank Titer:	0.003				10																														
THIO N:	0.14176				11																														
Sample Flask	☒ Yes				12																														
Water Seal?	No				13																														
Reagent Change?	MnCl ₂				14																														
(please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH				15																														
NOTE NEW BATCH IN LOG BOOK	H₂SO₄				16																														
	KIO₃				17																														
	THIO				18																														
Notes:	Green				19																														
					20																														
					21																														
					22																														
					23																														
					24																														

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments	
Cruise Number: 2014-21				1	✓	✓	484	1023	54m	8.4	6.139		1				
Event: 144				2	✓	✓	485A	2068	50m	8.5	6.136		2	8.3000	8.5	6.135	
Station: CS06				3	✓	✓	486	3930	30	9.5	6.510		3				
Event Date (local): 5 JUN 2014				4	✓	✓	487	3164	20	10.6	6.563		4				
Analysis Date (local): 06 June 2014				5	X	✓	488	557	10	11.8	6.636	redraw	5				
Analyst: KS				6	✓	✓	489	6022	5	11.9	6.638		6				
Stratization Date (local): 06 June 2014				7									7				
KIO ₃ N: 0.0098571				8									8				
Standard Titer: 0.6990				9									9				
Blank Titer: 0.0037				10									10				
THIO N: 0.14190				11									11				
Sample Flask				12									12				
Water Seal?				13									13				
Reagent Changed?				14									14				
(Please circle reagent that was changed prior to sampling and standardization)				15									15				
NOTE NEW BATCH IN LOG BOOK				16									16				
				17									17				
				18									18				
Notes:				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.

Last Updated: March 2014

Water Properties Group

Cruise and Analysis Information						Nisk ID		Nisk Int		Sample		Depth		Draw		OXY 1		Comments	
Cruise Number:	2014-21	ID	1	V	✓	S <td>✓</td> <th>ID</th> <td>491</td> <th>Flask 1</th> <td>3111</td> <th>Depth (m)</th> <td>186</td> <th>T 1 (°C)</th> <td>6.9</td> <th>OXY 1 (mL/L)</th> <td>2.180</td> <th></th> <th></th>	✓	ID	491	Flask 1	3111	Depth (m)	186	T 1 (°C)	6.9	OXY 1 (mL/L)	2.180		
Event:	164	2	✓	✓	✓	✓	✓	492	3190	175	6.9	2.182							
Station:	CS09	3	✓	✓	✓	✓	✓	493	3142	150	6.9	2.189							
Event Date (local):	6 JUN 2014	4	✓	✓	✓	✓	✓	494	2014	125	7.0	2.329							
Analysis Date (local):	06 June 2014	5	✓					495	621	100	7.4	3.986	Top cap not good						
Analyst:	KS	6	✓	✓	✓	✓	✓	496	2049	75	7.7	5.134							
Stratization Date (local):	06 June 2014	7	✓	✓	✓	✓	✓	497	3209	50	8.2	5.910	Really slow spigot leak						
KIO ₃ N:	0.0098571	8	✓	✓	✓	✓	✓	498	712	30	8.7	6.138							
Standard Titer:	0.6990	9	✓	✓	✓	✓	✓	499	2090	20	10.0	6.759							
Blank Titer:	0.0037	10	✓	✓	✓	✓	✓	500	3118	10	10.8	7.767							
THIO N:	0.14190	11	✓	✓	✓	✓	✓	501	510	5	10.9	7.882							
Sample Flask Water Seal?	Yes	12																	
Reagent Change?	Mnd ₂	13																	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14																	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15																	
	KIO ₃	16																	
	THIO	17																	
		18																	
		19																	
		20																	
		21																	
		22																	
		23																	
		24																	
Notes: BLUE BOX																			

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.