

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

BROWN

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:	7013-55	1				1	3151	21	14.3	4.571		1				
Event:	42	2				2	3207	19	14.3	4.553		2				
Station:	Ma/2	3				3	3187	17	14.4	4.640		3	3193	14.4	4.635	
Event Date (Local):	July 3, 2013	4				4	3189	10	15.3	5.302		4				
Analysis Date (Local):	July 3, 2013	5				5	3180	0	20.8	7.761	Flask 3191	5				
Analyst:	KS	6				6	↓					6				
Stratification Date (Local):	July 3, 2013	7				7	broken					7				
KIO ₃ N:	0.0100246	8				8						8				
Standard Titer:	0.7090	9				9						9				
Blank Titer:	0.0030	10				10						10				
THIO N:	0.14180	11				11						11				
Sample Flask Water Seal?	Yes	12				12						12				
	No	13				13						13				
Reagent Change?	MnCl ₂	14				14						14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15				15						15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16				16						16				
	KIO ₃	17				17						17				
	THIO	18				18						18				
Notes:	Sample: Kenny	19				19						19				
	Fix: RP, A, D.	20				20						20				
	Oxygen Sampling Training.	21				21						21				
		22				22						22				
		23				23						23				
		24				24						24				

Last Updated: December 201

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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:	2013-55										1		6	3174	23	14.5	4.779		1				
Event:	4										2		7	3182	21	14.1	4.723		2				
Station:	Mal 5										3		8	3184	19	14.1	4.701		3				
Event Date (local):	Jul 3, 2013										4		9	3178	10	15.4	5.484		4	3198	15.5	5.529	something went terribly wrong to sampling.
Analysis Date (local):	Jul 3, 2013										5		10	3166	0	11.1	7.802		5				
Analyst:	KS										6								6				
Standardization Date (local):	Jul 3, 2013										7								7				
KIO ₃ N:	0.01006246										8								8				
Standard Titer:	0.7090										9								9				
Blank Titer:	0.0030										10								10				
THIO N:	0.14180										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				
											19								19				
											20								20				
											21								21				
											22								22				
											23								23				
											24								24				
Notes:																							

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Cruise and Analysis Information				Nisk ID				Sample ID				Depth (m)				Draw T 1 (°C)				OXY 1 (mL/L)				Comments				
Cruise Number:	Event:	Station:	Event Date (Local):	Analysis Date (Local):	Analyst:	Standardization Date (Local):	KIO ₃ N:	Standard Titer:	Blank Titer:	THIO N:	Sample Flask Water Seal?	Reagent Change?	(Please circle reagent that was changed prior to sampling and standardization)	NOTE NEW BATCH IN LOG BOOK	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	
2013-55	17	Mal 11	July 3, 2013	July 3, 2013	K5	July 3, 2013	0.0100246	0.7090	0.0030	0.14180	Yes	MnCl ₂	H ₂ SO ₄	THIO	1		11	3151	44	12.7	4.234			1				
															2		12	3207	42	12.3	4.256	→		2				
															3		13	3187	40	12.3	4.352			3				
															4		14	3186	30	12.9	4.506			4				
															5		15	3189	20	13.8	4.905			5	3189	13.9	4.909	
															6		16	3191	10	15.5	5.826			6				
															7		17	3188	5	17.8	8.010			7				
															8		18	3174	0	21.1	8.379			8				
															9									9				
															10									10				
															11									11				
															12									12				
															13									13				
															14									14				
															15									15				
															16									16				
															17									17				
															18									18				
															19									19				
															20									20				
															21									21				
															22									22				
															23									23				
															24									24				

Notes:

Sample: K5
F₁: DM

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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:	2013-35			1		19	3184	39	13.4	4.589	→	1	3198	13.4	4.608	current depth inputted.
Event:	20			2		20	3178	37	12.9	4.421		2				
Station:	Ma/8			3		21	3166	35	12.9	4.373		3				
Event Date (Local):	July 3, 2013			4		22	3160	30	13.1	4.532		4				
Analysis Date (Local):	July 3, 2013			5		23	3171	20	13.9	4.934		5				
Analyst:	KS			6		24	3157	10	15.7	6.010		6				
Standardization Date (Local):	July 3, 2013			7		25	3200	5	18.2	8.183		7				
KIO ₃ N:	0.0100246			8		26	3201	0	21.3	8.641		8				
Standard Titer:	0.7090			9								9				
Blank Titer:	0.0003			10								10				
THIO N:	0.14180			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:	Sample: KS			19								19				
	Fix: RP			20								20				
				21								21				
				22								22				
				23								23				
				24								24				

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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:	2013-55			1	☐	27	3151	51	10.0	3.407		1				
Event:	M0114			2	☐	28	3207	49	10.0	3.436		2				
Station:	30			3	☐	29	3187	47	10.0	3.506		3				
Event Date (Local):	July 4, 2013			4	☐	30	3193	40 40	10.9	4.114	} duplicate Niskins.	4				
Analysis Date (Local):	July 4, 2013			5	☐	31	3196	40	10.9	4.114		5				
Analyst:	KS			6	☐	32	3189	39 40	12.2	4.511		6				
Stratization Date (Local):	July 3, 2013			7	☐	33	3191	20	13.1	4.901		7				
KIO ₃ N:	0.0100246			8	☐	34	3188	10	14.0	5.560	→	8	3174	14.0	5.577	
Standard Titer:	0.0090			9	☐	35	3182	5	16.4	7.081		9				
Blank Titer:	0.0030			10	☐	36	3184	0	18.0	7.844		10				
THIO N:	0.14180			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				
				18	☐							18				
				19	☐							19				
				20	☐							20				
				21	☐							21				
				22	☐							22				
				23	☐							23				
				24	☐							24				

Notes: Sample: Kenny
F. Dan.

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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: 2013-55				1				2				37				3178				64				9.5				2.739								1																			
Event: 33				2				38				3166				62				9.4				2.760								2				3160				9.4				2.760											
Station: Mal 17				3				39				3157				60				9.4				2.678				3171				3																							
Event Date (Local): July 4, 2013				4				40				3157				50				9.6				X - Turned off stirrer to remove bubble				4																											
Analysis Date (Local): July 4, 2013				5				41				3200				40				11				4.211				Forged to turn back on. This kept dosing. Endpoint definitely overshoot.				5																							
Analyst: KS				6				42				3201				30				18.2				4.625								6																							
Standardization Date (Local): July 3, 2013				7				43				3206				20				13.1				5.000				FT = 1.211 mL.				7																							
KIO ₃ N: 0.0100246				8				44				3204				10				14.3				5.534				OT = mL (mL/L)				8																							
Standard Titer: 0.7090				9				45				3181				5				16.8				7.640				no colour produce after adding 2 mL KIO ₃ sample				9																							
Blank Titer: 0.0030				10				46				3177				0				18.3				7.888				lost.				10																							
THIO N: 0.14180				11																												11																							
Sample Flask Water Seal? 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																							
H ₂ SO ₄				16																												16																							
KIO ₃				17																												17																							
NOTE NEW BATCH IN LOG BOOK				18																												18																							
THIO				19																												19																							
Notes: Sample: KS				20																												20																							
Ex: RP				21																												21																							
				22																												22																							
				23																												23																							
				24																												24																							

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group

BLUE

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:	2013-55	1				47	3098	71	10.3	2.907		1				
Event:	44	2				48	3043	69	9.9	2.984		2				
Station:	Mel 20	3				49	657	67	9.7	2.843		3				
Event Date (Local):	July 4, 2013	4				50	3118	50	10.5	3.792	→	4	3019	10.5	3.816	
Analysis Date (Local):	July 4, 2013	5				51	2064	40	11.4	4.392		5				
Analyst:	KS	6				52	2099	30	12.1	4.636		6				
Standardization Date (Local):	July 3, 2013	7				53	3119	20	13.1	5.141		7				
KIO ₃ N:	0.6100246	8				54	2078	10	14.7	5.511		8				
Standard Titer:	0.7090	9				55	2063	5	17.5	7.440		9				
Blank Titer:	0.0030	10				56	2092	0	19.2	7.867		10				
THIO N:	0.14180	11										11				
Sample Flask Water Seal?	Yes	12										12				
	No	13										13				
Reagent Change?	MnCl ₂	14										14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15										15				
	H ₂ SO ₄	16										16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17										17				
	THIO	18										18				
Notes:		19										19				
		20										20				
		21										21				
		22										22				
		23										23				
		24										24				

Sample: KS
Fix: DM

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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: 2013-55				1	☐	57	471	89	10.0	2.575		1				
Event: M1 23 47				2	☐	58	622	87	9.7	2.540		2				
Station: 47				3	☐	59	2061	85	9.6	2.556		3				
Event Date (Local): July 4, 2013				4	☐	60	2097	75	9.5	2.667		4				
Analysis Date (Local): July 4, 2013				5	☐	61	557	50	10.3	3.906		5				
Analyst: KS				6	☐	62	3164	40	11.7	4.566		6				
Standardization Date (Local): July 3, 2013				7	☐	63	371	30	12.7	4.879		7				
KIO ₃ N: 0.0160246				8	☐	64	638	20	13.4	5.160		8				
Standard Titer: 0.7690				9	☐	65	2007	10	14.9	5.723		9				
Blank Titer: 0.0030				10	☐	66	3067	5	16.5	7.435	→ odd curve @ end.	10	2098	16.9	7.481	→ also a noisy curve.
THIO N: 0.14180				11	☐	67	2027	0	18.8	8.017	→	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: Sample: KS Fix: AB				19	☐							19				
				20	☐							20				
				21	☐							21				
				22	☐							22				
				23	☐							23				
				24	☐							24				

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Institute of Ocean Sciences
Water Properties Group

BLUE

Last Updated: December 2011

Cruise and Analysis Information				Sample				Comments																			
Cruise Number:	Event:	Station:	Event Date (Local):	Analysis Date (Local):	Analyst:	Standardization Date (Local):	KIO ₃ N:	Standard Titer:	Blank Titer:	THIO N:	Sample Flask Water Seal?	Reagent Change?	(Please circle reagent that was changed prior to sampling and standardization)	NOTE NEW BATCH IN LOG BOOK	Nisk ID	Nisk Int	Sample ID	Flask 1 ID	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2 ID	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
2013-55	59	Mal 27.	July 5, 2013	July 5, 2013	KS	July 5, 2013	0.0100246	0.0027	0.0027	0.014180	Yes	MnCl ₂	H ₂ SO ₄		1		68	6027	78	9.4	2.686	New number 2027 replaces the original draw of 3098	1				
															2		69	3043	76	9.3	2.691	wrong depth inputted.	2				
															3		70	657	74	9.2	2.714		3				
															4		71	3118	50	10.1	4.133		4				
															5		72	3019	40	11.2	4.405		5				
															6		73	2064	30	12.0	4.790		6				
															7		74	289	20	12.9	5.109		7	3119	13.0	5.114	
															8		75	2073	10	14.3	5.681		8				
															9		76	2063	5	15.5	6.403	Temp 15.5 °C	9				
															10		77	2092	0	17.4	7.796		10				
															11								11				
															12								12				
															13								13				
															14								14				
															15								15				
															16								16				
															17								17				
															18								18				
															19								19				
															20								20				
															21								21				
															22								22				
															23								23				
															24								24				

Notes: New batch of H₂SO₄ #1303 prepared June 24, 2013 by me.

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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:	2013-55				1		78	471	61	10.9	4.143		1				
Event:	68				2		79	622	59	10.7	4.129		2				
Station:	Mol 39				3		80	2061	57	10.7	4.142		3				
Event Date (Local):	July 5, 2013				4		81	2097	50	10.6	4.153		4				
Analysis Date (Local):	July 5, 2013				5		82	557	40	10.8	4.228	→	5	2164	10.8	4.235	
Analyst:	KS				6		83	371	30	11.1	4.333		6				
Standardization Date (Local):	July 5, 2013				7		84	638	20	12.0	4.679		7				
KIO ₃ N:	0.0100246				8		85	2057	10	13.5	5.304		8				
Standard Titer:	0.7087				9		86	3067	5	15.9	6.392		9				
Blank Titer:	0.0027				10		87	2098	0	17.6	6.925		10				
THIO N:	0.14180				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)	MnCl ₂ /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	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:	2013-55			1	☐	88	3151	51	11.0	4.162		1				
Event:	71			2	☐	89	3207	49	11.0	4.183		2				
Station:	Ma133			3	☐	90	3187	47	11.0	4.170		3				
Event Date (Local):	July 5, 2013			4	☐	91	3193	40	11.0	4.202		4				
Analysis Date (Local):	July 5, 2013			5	☐	92	3196	30	11.3	4.310		5				
Analyst:	KS			6	☐	93	3189	20	12.5	4.803	→	6	3191	12.6	4.801	
Standardization Date (Local):	July 5, 2013			7	☐	94	3188	10	13.7	5.256		7				
KIO ₃ N:	0.0100246			8	☐	95	3174	5	16.3	6.369	New bottle #3184, excess NaOH	8				
Standard Titer:	0.087			9	☐	96	3182	0	18.3	6.721		9				
Blank Titer:	0.0027			10	☐							10				
THIO N:	0.14180			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							Cruise Number: 2013-55							Event: 73							Station: Mol 35							Event Date (Local): July 5, 2013							Analysis Date (Local): July 5, 2013							Analyst: KS							Stratization Date (Local): July 5, 2013							KIO ₃ N: 0.0100246							Standard Titer: 0.7087							Blank Titer: 0.0027							THIO N: 0.14180							Sample Flask Water Seal? No							Reagent Change? MnCl₂ (Please circle reagent that was changed prior to sampling and standardization) Na₂/NaOH H₂SO₄ KIO₃ THIO							Notes:						
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																																																																																						
1	☐	97	3177	45	11.4	X	Zeroed in sample! FT=0.017mL							1	3178	11.4	4.197																																																																																							
2	☐	98	3178	43	11.3	4.187	3166 OT=0.743 mL (4.095 mL/L)							2																																																																																										
3	☐	99	3166	41	11.2	4.173	3160							3																																																																																										
4	☐	100	3160	30	12.0	4.441	3171							4																																																																																										
5	☐	101	3171	20	12.7	4.762	3157							5																																																																																										
6	☐	102	3157	10	13.8	5.345	3200							6																																																																																										
7	☐	103	/	3	15.8	6.248	3201							7																																																																																										
8	☐	104	/	0	18.6	6.801	3202							8																																																																																										
9	☐													9																																																																																										
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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

RED

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:	2613-55			1	☐	105	2051	28	12.7	4.506		1				
Event:	75			2	☐	106	3126	26	12.4	4.395		2				
Station:	Ma1 37			3	☐	107	2068	24	12.5	X	-20.861 mL	3				
Event Date (local):	July 5, 2013			4	☐	108	4158	20	12.8	4.549	Bubble on probe. FT = 4.478 mL (OT = 0.07 mL (0.366 mL/L))	4				
Analysis Date (local):	July 5, 2013			5	☐	109	2017	10	14.4	5.509		5				
Analyst:	KS			6	☐	110	658	5	16.1	6.526		6				
Standardization Date (local):	July 5, 2013			7	☐	111	3055	0	19.0	6.885	→ Redrawn in flask 3013	7	3137	19.0	6.878	
KIO ₃ N:	0.0100246			8	☐							8				
Standard Titer:	0.7687			9	☐							9				
Blank Titer:	0.0027			10	☐							10				
THIO N:	0.14180			11	☐							11				
Sample Flask Water Seal?	(Yes)			12	☐							12				
	No			13	☐							13				
Reagent Change?	MnCl ₂			14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			15	☐							15				
	H ₂ SO ₄			16	☐							16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃			17	☐							17				
	THIO			18	☐							18				
Notes:				19	☐							19				
				20	☐							20				
				21	☐							21				
				22	☐							22				
				23	☐							23				
				24	☐							24				

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: December 2011

WHITE

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: 2013-55				1	☐	112	2095	67	10.9	4.108		1				
Event: 24				2	☐	113	2089	65	10.9	4.084		2				
Station: Mal 40				3	☐	114	2087	63	10.9	4.069		3				
Event Date (Local): July 5, 2013				4	☐	115	2080	50	10.9	4.183		4				
Analysis Date (Local): July 5, 2013				5	☐	116	2094	40	11.2	4.291		5				
Analyst: KLS				6	☐	117	1015	30	11.3	4.372		6				
Standardization Date (Local): July 5, 13				7	☐	118	3061	20	11.7	4.511	→	7	3124	11.8	4.510	
KIO ₃ N: 0.0100246				8	☐	119	3109	10	12.9	5.028		8				
Standard Titer: 0.7087				9	☐	120	650	5	14.9	5.639		9				
Blank Titer: 0.0027				10	☐	121	612	0	15.9	5.839		10				
THIO N: 0.14180				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				
KIO ₃				18	☐							18				
THIO				19	☐							19				
Notes:				20	☐							20				
				21	☐							21				
				22	☐							22				
				23	☐							23				
				24	☐							24				

NOTE NEW BATCH IN LOG BOOK

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

WHITE

Last Updated: December 2011

Cruise and Analysis Information				Sample				Comments					
Cruise Number:	Event:	Station:	Event Date (Local):	Analysis Date (Local):	Analyst:	Standardization Date (Local):	KIO ₃ N:	Standard Titer:	Blank Titer:	THIO N:	Sample Flask Water Seal?	Reagent Change?	Notes:
Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)							
2013-SS	86	Mal 45	July 5, 2013	July 5, 2013	K3	July 5, 2013	0.0100246	0.7087	0.0027	0.14180	(Yes)	MnCl₂ NaI/NaOH H₂SO₄ KIO₃ THIO	
1		122	1002	68	9.3	3.062							
2		123	1035	66	9.2	3.061							
3		124	1055	64	9.23	3.060							
4		125	1085	50	9.2	3.172							
5		126	3016	40	9.46	3.505							
6		127	94	30	9.7	3.667							
7		128	2060	20	9.9	3.812							
8		129	570	10	11.6	4.753							
9		130	2082	5	15.9	6.583							
10		131	2091	0									
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													

Not the best
→ titration. No sign of a bubble, Endpoint overshoot slightly

skipped. Due to a CTD software crash. No samples collected.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Blue

Last Updated: December 2011

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:	2013-55			1		132	2027	48	10.9	4.153		1					
Event:	92			2		133	3043	46	10.7	4.107		2					
Station:	M61 34			3		134	657	44	10.6	4.121		3					
Event Date (Local):	July 6, 2013			4		135	3118	30	10.9	4.217		4					
Analysis Date (Local):	July 6, 2013			5		136	3019	20	11.5	4.411		5					
Analyst:	KS			6		137	2064	10	13.5	5.367	→ wrong flask id used 3.119 not 2064	6	2099	13.6	5.230		
Standardization Date (Local):	July 5, 2013			7		138	3119	5	15.9	6.582		7					
KIO ₃ N:	0.0100246			8		139	2073	0	17.6	6.468		8					
Standard Titer:	0.7087			9								9					
Blank Titer:	0.0027			10								10					
THIO N:	0.14180			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					
				19								19					
				20								20					
				21								21					
				22								22					
				23								23					
				24								24					

Notes:

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Blue.

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: 2013-SS				1	☐	140	2092	48	10.9	4.150		1				
Event: 95				2	☐	141	3135	46	10.8	4.128		2				
Station: Mal 34				3	☐	142	471	44	10.7	4.113		3				
Event Date (local): July 6, 2013				4	☐	143	622	30	11.0	4.262		4				
Analysis Date (local): July 6, 2013				5	☐	144	2061	20	11.6	4.423		5				
Analyst: KS				6	☐	145	2097	10	13.4	5.221		6				
Standardization Date (local): July 5, 2013				7	☐	146	557	5	17.3	6.643	→	7	3164	17.6	6.649	
KIO ₃ N: 0.0100246				8	☐	147	371	0	-99.0	6.563	- Missed recording this temperature.	8				
Standard Titer: 0.7087				9	☐							9				
Blank Titer: 0.0027				10	☐							10				
THIO N: 0.14180				11	☐							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) NOTE NEW BATCH IN LOG BOOK				15	☐							15				
				16	☐							16				
				17	☐							17				
				18	☐							18				
				19	☐							19				
Notes: Sample: KS F.x: DPL.				20	☐							20				
				21	☐							21				
				22	☐							22				
				23	☐							23				
				24	☐							24				
				24	☐							24				

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: December 2011

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:	2013-55	1				148	48	2051	10.9	4.095		1				
Event:	97	27				149	46	3126	10.7	4.096		2	2068	11.0	4.090	
Station:	Mel 34	3				150	44	458	10.7	4.093		3				
Event Date (Local):	July 6, 2013	4				151	30	2017	11.2	4.248		4				
Analysis Date (Local):	July 6, 2013	5				152	20	658	12.0	4.516		5				
Analyst:	KS	6				153	10	3013	13.9	5.397		6				
Stdization Date (Local):	July 5, 2013	7				154	5	3137	15.3	6.077		7				
KIO ₃ N:	0.0100246	8				155	0	3100	17.6	6.741		8				
Standard Titer:	0.7087	9										9				
Blank Titer:	0.0027	10										10				
THIO N:	0.14180	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				

Red

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences

Water Properties Group

Red

Last Updated: December 2011

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: 2013-55				1				156				3194				45				10.9				4.141								1																							
Event: 100 100				2				157				505				43				10.7				4.685								2																							
Station: Mol 34				3				158				3090				41				10.8				4.082				→				3				1023				10.7				4.082											
Event Date (Local): July 6, 2013				4				159				3000				30				10.8				4.156								4																							
Analysis Date (Local): July 6, 2013				5				160				3036				20				11.9				4.486								5																							
Analyst: KS				6				161				3005				10				13.6				5.203								6																							
Standardization Date (Local): July 5, 2013				7				162				3041				5				16.2				6.473								7																							
KIO ₃ N: 0.0100246				8				163				3055				0				18.1				6.890								8																							
Standard Titer: 0.7087				9																												9																							
Blank Titer: 0.0027				10																												10																							
THIO N: 0.11180				11																												11																							
Sample Flask Water Seal? ☒ Yes ☐ No				12																												12																							
Reagent Change? ☐ MnCl ₂ ☒ NaI/NaOH ☐ H ₂ SO ₄ ☐ KIO ₃ ☐ THIO				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																							
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				24																												24																							

Notes:

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

WHITE

Cruise and Analysis Information				Nisk				Sample				Depth				Draw T 1				OXY 1				Comments				Nisk				Flask 2				Draw T 2				OXY 2				Comments			
				ID	Int	ID	Flask 1	(m)	(°C)	(mL/L)					ID	Flask 2	(°C)	(mL/L)																													
Cruise Number: 2013-55				1	☐	164	2095	47	11.7	4.114					1																																
Event: 102				2	☐	165	2089	45	11.0	4.073					2																																
Station: M01 34				3	☐	166	2087	43	10.9	4.075					3																																
Event Date (Local): July 6, 2013				4	☐	167	2080	30	11.0	4.105	→				4	2094	11.0	4.105																													
Analysis Date (Local): July 6, 2013				5	☐	168	1015	20	12.0	4.522					5																																
Analyst: KS				6	☐	169	3061	10	13.6	5.140	- leak. Vent was open. See notes.				6																																
Standardization Date (Local): July 5, 2013				7	☐	170	3124	5	15.5	6.189					7																																
KIO ₃ N: 0.0160246				8	☐	171	3109	0	18.0	6.822					8																																
Standard Titer: 0.7087				9	☐										9																																
Blank Titer: 0.0027				10	☐										10																																
THIO N: 0.14180				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: Nisk #6 Bottle 2061 Sample 169 Vent was open.				19	☐										19																																
				20	☐												20																														
				21	☐												21																														
				22	☐												22																														
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				24	☐												24																														
				24	☐												24																														

Math

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Cruise and Analysis Information					Nisk					Comments				
Cruise Number:	2013-55	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)		Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Event:	104	1		181	612	48	11.1	4.074		1				
Station:	Ma/ 34	2		182	1059	46	10.9	4.080		2				
Event Date (Local):	July 6, 2013	3		183	1002	44	11.0	4.080		3				
Analysis Date (Local):	July 6, 2013	4		184	1035	30	11.7	4.325		4				
Analyst:	K5	5		185	1055	20	12.8	4.829	→	5	1085	12.9	4.831	
Standardization Date (Local):	July 5, 2013	6		186	2047	10	13.4	5.127		6				
KIO ₃ N:	0.0100246	7		187	3016	5	15.1	6.033		7				
Standard Titer:	0.7087	8		188	94	0	18.3	6.838		8				
Blank Titer:	0.0627	9								9				
THIO N:	0.14180	10								10				
Sample Flask	Yes	11								11				
Water Seal?	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				

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

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:	2013-85	1		189	3151	48	11.7	4.084				1				
Event:	106	2		190	3207	46	11.4	4.072				2				
Station:	Mel-34	3		191	3187	44	11.1	3.937				3				
Event Date (Local):	July 6, 2013	4		192	3193	30	11.8	4.422	- a bit of an odd curve. Endpoint			4				
Analysis Date (Local):	July 6, 2013	5		193	3196	20	12.7	4.840	ambiguous.			5				
Analyst:	KCS	6		194	3189	10	13.8	5.315				6				
Standardization Date (Local):	July 5, 2013	7		195	3191	5	16.4	6.628	→ curve messy near end. Please			7	3188	16.6	6.634	
KIO ₃ N:	0.0100246	8		196	3184	6	18.4	6.980	check.			8				
Standard Titer:	0.7087	9										9				
Blank Titer:	0.0027	10										10				
THIO N:	0.14180	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				

Last Updated: December 2011

Blue *wrong event # recorded in *.oxy file*

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:	2013-55						1	☐	215	2027	23	11.9	4.282			1				
Event:	GH18 ↻						2	☐	216	3043	21	11.7	4.261			2				
Station:	109 ↻						3	☐	217	657	19	11.7	4.251			3				
Event Date (Local):	July 7, 2013						4	☐	218	3118	10	10.0	4.319			4				
Analysis Date (Local):	July 7, 2013						5	☐	219	3019	5	10.6	4.411			5				
Analyst:	KS						6	☐	220	2064	0	15.8	5.259	→		6	2099	15.9	5.286	
Stratization Date (Local):	July 7, 2013						7	☐								7				
KIO ₃ N:	0.0100246						8	☐								8				
Standard Titer:	0.7687						9	☐								9				
Blank Titer:	0.0027						10	☐								10				
THIO N:	0.14180						11	☐								11				
Sample Flask Water Seal?	(Yes) ☒ No ☐						12	☐								12				
Reagent Change?	MnCl₂						13	☐								13				
(Please circle reagent that was changed prior to sampling and standardization)	Na₂/NaOH						14	☐								14				
NOTE NEW BATCH IN LOG BOOK	H₂SO₄						15	☐								15				
	KIO₃						16	☐								16				
	THIO						17	☐								17				
							18	☐								18				
							19	☐								19				
							20	☐								20				
							21	☐								21				
							22	☐								22				
							23	☐								23				
							24	☐								24				
Notes:																				

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group

Bue.

Cruise and Analysis Information				Comments								
Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)		Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-55	1	221	2073	19	11.8	4.091		1				
Event: 111	2	222	2063	17	11.7	4.067		2				
Station: GH15	3	223	2092	15	11.6	4.100	→	3	3135	11.7	4.094	wrong depth (10 instead of 15)
Event Date (Local): July 7, 2013	4	224	471	10	11.7	4.131		4				
Analysis Date (Local): July 7, 2013	5	225	622	5	12.4	4.281		5				
Analyst: KS	6	226	2061	0	15.5	5.037		6				
Stratization Date (Local): July 7, 2013	7							7				
KIO ₃ N: 0.0100246	8							8				
Standard Titer: 0.7087	9							9				
Blank Titer: 0.0027	10							10				
THIO N: 0.14180	11							11				
Sample Flask Water Seal? ☒ Yes ☐ No	12							12				
Reagent Change? ☒ MnCl ₂ ☒ NaI/NaOH	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				

Notes:

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Cruise and Analysis Information				Nisk ID				Sample ID				Flask 1				Depth				Draw T 1				OXY 1				Comments				Nisk ID				Flask 2				Draw T 2				OXY 2				Comments			
Cruise Number: 2013-SS				1				227				557				36				11.1				4.127								1																			
Event: 113				2				228				3164				34				10.1				4.134				32m from bot 11 not 2				2																			
Station: GH13				3				229				371				32				11.0				4.142								3																			
Event Date (Local): July 7, 2013				4				230				638				20				11.4				4.226								4																			
Analysis Date (Local): July 7, 2013				5				231				2007				10				11.8				4.308								5																			
Analyst: KS				6				232				3067				5				12.5				4.491				→				6				2098				12.6				4.492							
Standardization Date (Local): July 7, 2013				7				283				3098				0				14.5				5.137								7																			
KIO ₃ N: 0.0100246				8																												8																			
Standard Titer: 0.7087				9																												9																			
Blank Titer: 0.0627				10																												10																			
THIO N: 0.14180				11																												11																			
Sample Flask Water Seal? Yes				12																												12																			
No				13																												13																			
Reagent Change? (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:				19																												19																			
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Water Properties Group

White.

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:	7013-55	1		234	2095	27	11.6	4.249	-Endpoint slightly late	1	2089	11.6	4.241			
Event:	115	2		235	2087	25	11.6	4.232		2						
Station:	GH11	3		236	2080	23	11.4	4.233		3						
Event Date (Local):	July 7, 2013	4		237	2094	20	11.4	4.232	3109 (redrawn) temp=11.5	4						
Analysis Date (Local):	July 7, 2013	5		238	1615	10	12.0	4.333	2091 (#4 final draw) temp=11.5	5						
Analyst:	KS	6		239	3061	5	12.7	4.506		6						
Stdization Date (Local):	July 7, 2013	7		240	3124	0	14.0	4.655		7						
KIO ₃ N:	0.0100246	8								8						
Standard Titer:	0.7087	9								9						
Blank Titer:	0.0027	10								10						
THIO N:	0.14187	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)	MnCl ₂	14								14						
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15								15						
	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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Water Properties Group

White.

Cruise and Analysis Information				Nisk ID				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: 2013- 35 35				1				241				2095				77				9.2				2.801								1																			
Event: 128				2				242				2089				75				9.1				2.928								2																			
Station: GH08				3				243				2087				73				9.0				2.923				particles swirling around in sample				3																			
Event Date (Local): July 7, 2013				4				244				2080				50				9.2				3.091								4																			
Analysis Date (Local): July 7, 2013				5				245				2091				40				9.3				3.210								5																			
Analyst: KS				6				246				1015				30				9.6				3.481				wrong depth inputted (40 inst. of 30)				6																			
Standardization Date (Local): July 7, 2013				7				247				3061				20				10.0				3.76				" (30 instead of 20).				7																			
KIO ₃ N: 0.0106246				8				248				3124				10				10.2				4.082								8				650				10.2				4.085							
Standard Titer: 0.7087				9				249				2000				5				10.7				4.133								9																			
Blank Titer: 0.0027				10				250				612				0				12.7				4.782								10																			
THIO N: 0.14180.				11																												11																			
Sample Flask Water Seal? ☒ Yes ☐ No				12																												12																			
Reagent Change? ☒ Yes ☐ 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																			
				19																																19															
Notes:				20																												20																			
				21																												21																			
				22																												22																			
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				24																												24																			
				25																																25															

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Water Properties Group

Blue

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: 2013-55				1				2				262				2027				85				8.9				3.333								1																			
Event: 1303				2				263				3043				83				8.7				3.384												2																			
Station: GH04				3				264				667				81				8.7				3.384												3				3118				8.7				3.381							
Event Date (Local): July 8, 2013				4				265				3619				50				9.1				3.466												4																			
Analysis Date (Local): July 8, 2013				5				266				2064				40				9.3				3.529												5																			
Analyst: KS				6				267				2099				30				9.3				3.602												6																			
Standardization Date (Local): July 7, 2013				7				268				3119				20				9.5				3.733												7																			
KIO ₃ N: 0.0100246				8				269				2073				16				9.7				3.872												8																			
Standard Titer: 0.7087				9				270				2063				5				11.5				4.965												9																			
Blank Titer: 0.0027				10				271				2092				0				11.7				5.140												10																			
THIO N: 0.14180				11																																11																			
Sample Flask Water Seal? 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																			
H ₂ SO ₄				16																																16																			
KIO ₃				17																																17																			
THIO				18																																18																			
NOTE NEW BATCH IN LOG BOOK				19																																19																			
Notes:				20																																20																			
				21																																21																			
				22																																22																			
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				24																																24																			

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Water Properties Group

White

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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:	2013-55			1		272	2095	228	8.6	3.511		1				
Event:	136			2		273	2089	226	8.5	3.492		2				
Station:	GHO 2			3		274	2087	224	8.5	3.513		3				
Event Date (Local):	July 8, 2013			4		275	2080	200	8.4	3.609	→	4	2091	8.4	3.612	
Analysis Date (Local):	July 8, 2013			5		276	1015	175	8.5	3.598		5				
Analyst:	KS			6		277	3061	150	8.5	3.614		6				
Stratification Date (Local):	July 7, 2013			7		278	3124	125	8.5	3.454		7				
KIO ₃ N:	0.0100246			8		279	650	100	8.6	3.439	→	8	2000	8.7	3.434	
Standard Titer:	0.7687			9		280	612	75	8.8	3.543		9				
Blank Titer:	0.0027			10		281	1059	50	9.4	3.638	endpoint slightly ambiguous. Please check.	10				
THIO N:	0.14180			11		282	1002	40	9.4	3.672		11				
Sample Flask Water Seal?	Yes			12		283	1035	30	10.0	3.794		12				
Reagent Change?	No			13		284	1055	20	10.1	3.824		13				
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂			14		285	1085	10	11.3	4.110		14				
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH			15		286	2047	5	12.5	5.586	leaky spigot.	15				
	H ₂ SO ₄			16		287	3016	0	13.5	5.738		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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Water Properties Group

Blue

Cruise and Analysis Information				Nisk ID				Sample ID				Depth (m)				Draw T 1 (°C)				OXY 1 (mL/L)				Comments			
Cruise Number:	Event:	Station:	Event Date (Local):	Analysis Date (Local):	Analyst:	Stratization Date (Local):	KIO ₃ N:	Standard Titer:	Blank Titer:	THIO N:	Sample Flask Water Seal?	Reagent Change?	(Please circle reagent that was changed prior to sampling and standardization)	NOTE NEW BATCH IN LOG BOOK	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
2013-55	142	GH20	July 8, 2013	July 8, 2013	KS	July 7, 2013	0.0106246	0.7087	0.0027	0.14180	Yes	MhCl ₂	NaI/NaOH		1		288	2027	90	8.8	3.226		1				
															2		289	3043	88	8.8	3.230		2				
															3		296	657	86	8.8	3.230		3				
															4		291	3118	75	8.8	3.211		4				
															5		292	3019	50	9.2	3.3813		5				
															6		293	2064	40	9.5	3.534		6				
															7		294	2099	30	9.8	3.668		7				
															8		295	3119	20	9.9	3.784	→	8	2073	10.0	3.782	
															9		296	2063	10	10.3	4.173		9				
															10		297	2092	5	10.7	4.419		10				
															11		298	3135	0	11.4	4.809		11				
															12								12				
															13								13				
															14								14				
															15								15				
															16								16				
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															22								22				
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															24								24				

Notes: Final Set.