

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-01				1	1	3070	218	7.5	2.245		1				
Event: 1				2	2 ^A	3076	200	7.5	4.469		2	1019 ^B	7.5	4.495	
Station: HARE 59				3	3	3029	175	7.4	4.457		3				
Event Time (UTC): 0646				4	4	620	150	7.4	4.628		4				
Event Date (UTC): 11/2/14				5	5	639	125	7.3	4.816		5				
Analysis Date: 12/2/14				6	6	632	100	7.3	4.834		6				
Analyst: H.M.				7	7 ^A	196	80	7.3	4.922		7	2040	7.3	4.914	
Standardization Date: 12/2/14				8	8	3121	60	7.3	5.012		8				
KIO ₃ N: 0.0098716				9	9	569	50	7.3	5.035		9				
Standard Titer: 0.7677				10	10	1050	40	7.3	5.039		10				
Blank Titer: 0.0623				11	11	1054	30	7.3	5.061		11				
THIO N: 0.14034				12	12	2015	20	7.3	5.155		12				
Sample Flask Water Seal? ☒ Yes ☐ No				13	13 ^A	2020	10	7.3	5.238		13	2016	7.3	5.255	
Reagent Change? ☐ MnCl ₂ ☐ NaI/NaOH (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				14	14	647	5	7.3	5.284		14				
				15	15	3040	0	7.3	5.209		15				
				16							16				
				17							17				
				18							18				
				19							19				
Notes: YELLOW Box				20							20				
				21							21				
				22							22				
				23							23				
				24							24				

46° 36.99
123° 14.89

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Cruise Number: 2014-01				1	43	3151	178	7.8	2.634	SAMPLE 15 FLASK 3040	1				NEEDS TO CHANGE - ODS
Event: 4				2	44	3207	150	7.9	2.386		2				
Station: JF2				3	45	3187	125	7.7	2.952		3				
Event Time (UTC): 1351				4	46	3193	100	7.4	4.270		4				
Event Date (UTC): 11/2/14				5	47A	3196	80	7.3	4.979		5	3189	7.3	4.965	
Analysis Date: 13/2/14				6	48	3191	60	7.2	5.180		6				
Analyst: H.M.				7	49	3188	50	7.2	5.210		7				
Standardization Date: 12/2/14				8	50	3184	40	7.2	5.209		8				
KIO ₃ N: 0.0098716				9	51	3198	30	7.1	5.213		9				
Standard Titer: 0.7077				10	52	3182	20	7.1	5.237		10				
Blank Titer: 0.0023				11	53	3177	10	7.1	5.224		11				
THIO N: 0.14034				12	54	3178	5	7.1	5.264		12				
Sample Flask Water Seal? ☒ Yes ☐ No				13	55	3166	0	7.2	5.266		13				
Reagent Change? ☐ MhCl ₂ ☐ NaI/NaOH (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: Brown Box				20							20				
48° 18' 00"				21							21				
123° 59' 96"				22							22				
				23							23				
				24							24				

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Cruise Number:	2014-01				1	56	3160	125	7.7	3.313	Spot Leaking #1	1	3171	7.7	0.766	100% in sample CP = 200%
Event:	7				2	57	3157	30	6.9	6.241		2				
Station:	P1				3	58	3200	5	6.9	6.585		3	3201	6.9	6.587	
Event Time (UTC):	2119				4							4				
Event Date (UTC):	11/2/14				5							5				
Analysis Date:	13/2/14				6							6				
Analyst:	H.1				7							7				
Standardization Date:	12/2/14				8							8				
KIO ₃ N:	0.0098716				9							9				
Standard Titer:	0.7077				10							10				
Blank Titer:	0.0023				11							11				
THIO N:	0.14034				12							12				
Sample Flask	Yes				13							13				
Water Seal?	No				14							14				
Reagent Change?	MnCl ₂				15							15				
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH				16							16				
	H ₂ SO ₄				17							17				
	KIO ₃				18							18				
	THIO				19							19				
Notes: Brown Box					20							20				
	48 34.52				21							21				
	125 30.34				22							22				
					23							23				
					24							24				

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Cruise Number: 2014-01				1	91A	2095	103	8.1	3.304		1	2089	8.1	3.298		
Event: 11				2	92	2087	100	8.1	3.307		2					
Station: P2				3	93	2091	75	8.1	3.632		3					
Event Time (UTC): 0059				4	94	3061	75	8.1	3.623		4					
Event Date (UTC): 12/2/14				5	95	2080	50	8.3	4.528		5					
Analysis Date: 13/2/14				6	96	3124	25	7.5	6.601		6					
Analyst: H n.				7	97	650	10	7.5	6.687		7					
Stdization Date: 12/2/14				8	98	2000	5	7.5	6.702		8					
KIO ₃ N: 0.0098716				9							9					
Standard Titer: 0.7077				10							10					
Blank Titer: 0.0023				11							11					
THIO N: 0.14034				12							12					
Sample Flask Water Seal? Yes				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:				20							20					
				21							21					
				22							22					
				23							23					
				24							24					

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Cruise and Analysis Information				Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments	
Cruise Number: 2014-01				1	191	1201	1328	3.8	0.008	CONTINUOUS DOSING - NOT STOPPED	1				DOSING WRONG - CONTINUOUS - NOT STOPPED	
Event: 18				2	192	1202	1250	3.8	0.029		2					
Station: 44				3	193	1204	1255	3.7	0.006	RATE OK	3	1206	3.7	0.006		
Event Time (UTC): 1203				4	194	1209	1000	4.3	0.224		4					
Event Date (UTC): 12/2/14				5	195	1212	800	4.9	0.404		5					
Analysis Date: 12/2/14				6	196	1213	600	5.6	0.491		6					
Analyst: H.N.				7	197	1216	400	6.5	1.403		7					
Standardization Date: 15/2/14				8	198	1218	300	6.9	1.681		8					
KIO ₃ N: 0.0098302 (NEW)				9	199	1219	250	7.1	1.858		9					
Standard Titer: 0.701				10	200	1223	200	7.3	2.276		10					
Blank Titer: 0.0023				11	201	1224	175	7.5	2.054		11					
THIO N: 0.14110				12	202	1225	150	7.5	2.088		12					
Sample Flask Water Seal? ☒ Yes				13	203	1231	125	7.7	2.160		13					
Reagent Changed? ☐ No				14	204	1228	100	7.9	2.017		14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				15	205	1233	75	7.9	3.298		15	1241	7.9	3.283		
				16	206	1244	50	7.5	5.040		16					
				17	207	1247	25	7.7	6.610		17					
				18	208	1248	10	7.7	6.619		18					
				19	209	1252	5	7.7	3.034	X - See ABOVE - REBOOT	19					
Notes: Bot 2				20							20					DOSING WRONG - SEE ABOVE
				21							21					RE BOT AND START FLK1 SAMPLE #4
				22							22					
				23							23					
				24							24					

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Cruise and Analysis Information				Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments			
Cruise Number: 2014-01				1	257	370	2000	2.9	1.384		1	257	306	2.9°C	1.389			
Event: 25				2	258	1019	1500	3.3	0.657		2							
Station: P8				3	259	3229	1250	3.7	0.418		3							
Event Time (UTC): 0616				4	260	620	1000	4.3	0.229		4							
Event Date (UTC): 13 Feb 14				5	261	639	800	4.7	0.271		5							
Analysis Date: 13 / 2 / 14				6	262	632	600	5.4	0.388		6							
Analyst: A.M.				7	263	196	400	5.8	1.214		7							
Standardization Date: 12/2/14				8	264	2010	300	6.4	1.666		8							
KIO ₃ N: 0.0098716				9	265	3121	250	6.6	2.259		9	265	569	6.6°C	2.272			
Standard Titer: 0.7077				10	266	1050	200	7.0	2.716		10							
Blank Titer: 0.0023				11	267	1054	175	7.3	2.549		11							
THIO N: 0.14034				12	268	2015	150	7.5	2.754		12							
Sample Flask Water Seal? ☒ Yes				13	269	2016	125	7.6	3.028		13							
Reagent Changed? ☐ No				14	270	447	100	7.4	3.715		14							
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				15	271	3010	75	7.4	4.482		15							
				16	272	2032	50	7.7	6.635		16							
				17	273	2019	25	7.7	6.654		17	273	468	7.7	6.670			
				18	274	745	10	7.7	6.705		18							
				19	275	2013	5	7.7	6.656		19							
Notes: Yellow Case				20							20							
				21							21							
				22							22							
				23							23							
				24							24							

48 48.92
128 40.07

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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: 2014	1	614	1201	3274	2.2	0.621	1				
Event: 7514	2	615	1202	3000	2.1	2.297	2				
Station: P12	3	616 A	1204	3000	2.0	2.296	3				
Event Date (local): Feb 1	4	617	1209	2500	2.1	1.939	4				
Analysis Date (local):	5	618	1212	2000	2.3	1.382	5				
Analyst:	6	619	1213	1500			6				
Stdization Date (local):	7	620	1216	1250	3.		7				
KIO ₃ N:	8	621 A	1218	1000	3.6	0.241	8	9			
Standard Titer:	9	622	1274	800			9				
Blank Titer:	10	623	1224	600	4.5	0.556	10				
THIO N:	11	624	1225	400	5.2	1.509	11				
Sample Flask Water Seal?	12	625	1231	300	5.7	2.357	12				
Reagent Change?	13		1228	250	6.2	.	13				
(Please circle reagent that was changed prior to sampling and standardization)	14				6		14				
NOTE NEW BATCH IN LOG BOOK	15		1238	175	6.6	4.414	15				
	16	A	1241	150	6.5	5.167	16				
	17		1247	125	6.6	5.668	17				
	18	631	1248	100	6.7	6.348	18				
Notes: Box 2	19	632	1252	75	8.0	6.657	19				
	20	633 A	1260	50	8.0	6.662	20			6.66	
	21		1267	25	8.1	6.664	21				
	22		1268	10	8.1		22				
	23	636	1270	5	8.1	6.671	23				
	24						24				

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Cruise Number:	2014-01			1		347	1300	8-10	2.2	2.729		1				
Event:	34			2		348	1301	3500	2.1	2.691	2.1°C	2				
Station:	P16			3		349	1302	3500	2.1	2.676		3				
Event Date (local):	14/Feb/14			4		350	1306	3000	2.3	2.448		4				
Analysis Date (local):	17/2/14			5		351	1309	2500	2.4	1.993		5				
Analyst:	H.N.			6		352	1311	2000	2.6	1.339		6	1312	2.7	1.330	
Standardization Date (local):	15/2/14			7		353	1313	1500	2.9	0.537	BAD C.P. N (NO BUBBLE?)	7				
KIO ₃ N:	0.0098302			8		354	1314	1250	3.2	0.368		8				
Standard Titer:	0.701			9		355	1316	1000	3.6	0.260		9				
Blank Titer:	0.0025			10		356	1317	800	3.9	0.395		10				
THIO N:	0.14110			11		357	1318	600	4.5	0.501		11				
Sample Flask Water Seal?	Yes			12		358	1319	400	4.7	1.537		12				
	No			13		359	1321	300	5.0	2.256		13	1322	5.2	2.249	
Reagent Change?	MnCl ₂			14		360	1326	250	5.5	3.093		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			15		361	1327	200	6.1	4.179		15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16		362	1328	175	6.5	4.931		16	1330	6.5	4.936	
	KIO ₃			17		363	1331	150	6.5	5.380		17				
	THIO			18		364	1333	125	6.3	6.258		18				
Notes:				19		365	1335	100	6.9	6.509		19				
				20		366	1336	75	8.1	6.669		20	1337	8.1	6.664	
				21		367	1338	50	8.1	6.673		21				
				22		368	1340	25	8.1	6.603		22				
				23		369	1341	10	8.1	6.677		23				
				24		370	1343	5	8.1	6.678		24				

0435 UTC
49 16.96
134 39.82
Blue Metal 4

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Cruise Number:	2014-01			1		371	1201		1.8	2.977		1					
Event:	35			2		372	1202	3500		6		2					
Station:	P20			3		373	1204	3500	1			3					
Event Date (Local):	16 Feb 4			4		374	1206	3500	1.8	2.511		4					
Analysis Date (Local):	20/2/11			5		375	1209	2500	1.9	1.928		5					
Analyst:	H. N			6		376	1212	2000	2.1	1.259		6	1213	2.1	1.240		
Standardization Date (Local):	20/2/14			7		377	1216	1500	2.6	54		7					
KIO ₃ N:	0.0098302			8		378	1218	1250	2.8	0.330		8					
Standard Titer:	0.7005			9		379	1219	1000	3.3			9					
Blank Titer:	0.0025			10		380	1223	800	3.7	0.462		10					
THIO N:	0.14124			11		381	1224	600	4.2	5		11					
Sample Flask Water Seal?	Yes			12		382	1225	400	3			12					
	No			13		383		300	4.6	2.302		13	1228	4			
Reagent Change?	MnCl ₂			14		384	1233	250	5.2	3.069		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			15			1238	200	5.7	4.014		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16		386	1241	175	5.9	4.588		16	1244	3.4			
	KIO ₃			17		387	1247	150	5.9	5.546		17					
	THIO			18		388	1248	125	5			18					
Notes:	0534			19		389	1252	100				19					
				20		390	1260	75				20	1261				
				21		391		50	7.8	6.564		21					
				22		392	1268	25				22					
				23		393	1270	10				23					
				24		394	1271	5				24					

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Cruise Number:	2014-01	1				490	1300	434	1.8	2.900		1					
Event:	43	2				491 ^A	1301	400	1.7	3.216		2	1302	1.7	3.198		
Station:	P26	3				492	1306	3500	1.7	2.924		3					
Event Date (Local):	19 Feb 2014	4				493	1309	3000	1.7	2.532		4					
Analysis Date (Local):	22/2/14	5				494	1311	2500	1.9	1.932		5					
Analyst:	H.M.	6				495	1312	2000	2.0	1.282		6					
Standardization Date (Local):	20/2/14	7				496	1313	1500	2.6	0.579		7					
KIO ₃ N:	0.0098302	8				497 ^A	1314	1250	2.7	0.474		8	1316	3.1	0.470		Cap was loose
Standard Titer:	0.7005	9				498	1317	1000	3.3	0.349		9					
Blank Titer:	0.0025	10				499	1318	800	3.5	0.483		10					
THIO N:	0.14124	11				500	1319	600	4.0	0.520		11					
Sample Flask Water Seal?	Yes	12				501	1321	400	4.2	1.230		12					
	No	13				502	1322	300	4.5	1.835		13					
Reagent Change?		14				503 ^A	1326	250	4.4	2.450		14	1327	4.4	2.448		
(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	15				504	1328	200	4.5	3.525		15					
		16				505	1330	175	4.9	4.473		16					
		17				506	1331	150	5.4	5.882		17					
		18				507 ^A	1333	125	5.5	6.641		18	1335	5.5	6.637		
Notes:		19				508	1336	100	7.1	6.596		19					
		20				509	1337	75	7.5	6.607		20					
		21				510	1338	50	7.5	6.617		21					
		22				511	1340	25	7.5	6.543		22					
		23				512	1341	10	7.6	6.635		23					
		24				513	1343	5	7.5	6.617		24					

1928 UTC

49 59.99N

144 59.96W

Box A