

Dissolved Oxygen Analysis Log Sheet

Last Updated: July 2013

Institute of Ocean Sciences
Water Properties Group

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: 2014-15	1	☒ ☒	1	3121	Bot-5	12.2	5.575	spigot = leak	1				spigot = leak
Event: 01	2	☒ ☒	2	2065	300	11.6	5.568						
Station: CHP1	3	☒ ☒	3	647	250	10.9	5.564		3				
Event Date (Local): 13/04/14	4	☐ ☐	4	2020	200	11.5	5.559		4				
Analysis Date (Local): 13 APR 14	5	☐ ☐	5	2042	150	13.3	5.586		5				
Analyst: MARK BELTON	6	☐ ☐	6	3070	100	12.1	5.561		6				
Stdization Date (Local): 12 APR 14	7	☐ ☐	7	1054	75	12.5	5.555		7				
KIO ₃ N: 0.0098557	8	☐ ☐	8	690	50	13.3	5.555	Small bubbles @ top of flask	8	2040	12.5	5.556	
Standard Titer: 0.7025	9	☐ ☐	9	620	30	12.6	5.540		9				
Blank Titer: 0.0027	10	☐ ☐	10	196	70	11.4	5.543	Small bubble @ top of flask	10				
THIO N: 0.14124	11	☐ ☐	11	1019	10	11.2	5.557		11				
Sample Flask Water Seal? ☒ Yes ☐ No	12	☐ ☐	12	745	20	10.9	5.566		12	3029	10.8	5.537	
	13	☐ ☐	13	3040	20				13				
Reagent Change? MnCl ₂	14	☐ ☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐ ☐							15				
NOTE NEW BATCH IN LOG BOOK	16	☐ ☐							16				
	17	☐ ☐							17				
	18	☐ ☐							18				
Notes: This was a test!	19	☐ ☐							19				
Cast for Cruise	20	☐ ☐							20				
2014-15	21	☐ ☐							21				
Crew training on water sampling	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													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					
1	☒							1									
2	☒	612	15	215	9.0	3.426		2				Probe up & R					
3	☒							3				Sampling tube					
4	☒	3124	17	150	7.7	4.862		4	2087	2.6	4.870	up & down					
5	☒							5				bottle 2, 4, 6					
6	☒	3061	19	100	7.0	5.773		6									
7	☒							7									
8	☒	1059	21	75	6.8	5.986		8									
9	☒							9									
10	☒	2089	23	50	6.86	6.010		10									
11	☒							11									
12	☒	94	25	30	6.5	6.244		12	1002	6.5	6.250						
13	☒							13									
14	☒	2095	27	20	6.5	6.383		14									
15	☒							15									
16	☒	1055	29	10	6.8	7.170		16									
17	☒							17									
18	☒	2091	31	0				18				Missed					
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.

Do only on even # niskin

White

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Water Properties Group

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: 2014-15		1		32	2091	319	6.9	2.743	Flock in sample	1				
Event: 014		2		33	3016	300	6.8	2.819		2				
Station: DOUG 11		3		34	650	250	6.8	3.003		3	3116	6.8	3.017	Flock
Event Date (Local): 15 APR 14		4		35	2047	200	6.8	3.806	Flock	4				
Analysis Date (Local): 15 APR 14		5		36	1015	150	6.5	4.864	Flock	5				
Analyst: MARK BELTON		6		37	1035	100	6.0	5.852	Flock	6				
Stdization Date (Local): 15 APR 14		7		38	2060	75	6.0	5.891		7				
KIO ₃ N: 0.0098557		8		39	2000	50	5.9	5.985		8	2082	5.9	5.998	Flock
Standard Titer: 0.7018		9		40	570	30	5.8	6.035	Flock	9				
Blank Titer: 0.0027		10		41	2080	20	6.0	6.358		10				
THIO N: 0.1438		11		42	3109	10	6.1	7.085		11				
Sample Flask Water Seal? ☒ Yes		12		43	2094	surf	6.5	8.437		12				
Reagent Change? MnCl ₂		13								13				
(Please circle reagent that was changed prior to sampling and standardization)		14								14				
NOTE NEW BATCH IN LOG BOOK		15								15				
		16								16				
		17								17				
		18								18				
		19								19				
		20								20				
		21								21				
		22								22				
		23								23				
		24								24				

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

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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:	2014-15	1		45	2048	376	6.9	2.514		1				
Event:	16	2		46	196	350	6.9	2.593		2				
Station:	DOUG 16	3		47	3076	300	6.7	2.789	flock	3				
Event Date (Local):	15 APR 14	4		48	2065	250	6.7	3.160		4	3121	6.8	3.163	flock put wrong depth 200m?
Analysis Date (Local):	15 APR 14	5		49	3029	200	6.8	4.118		5				
Analyst:	MARK BELTON	6		50	2020	150	6.4	5.307	Small bubbles in flask, dark particle	6				
Stdization Date (Local):	15 APR 14	7		51	745	100	6.2	5.992		7				
KIO ₃ N:	0.0098557	8		52	1054	75	6.2	5.942		8				
Standard Titer:	0.7018	9		53	647	50	6.1	5.972	flock	9	690	6.2	5.966	small bubble
Blank Titer:	0.0027	10		54	2040	30	6.0	6.154		10				
THIO N:	0.14138	11		55	1019	20	6.2	6.374		11				
Sample Flask Water Seal?	(Yes) No	12		56	620	10	6.3	6.802		12				
Reagent Change?	MnCl ₂	13		57	3040	2	6.5	8.440		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				
Flock in samples		19								19				
probably undissolved ppt.		20								20				
disappeared with		21								21				
thorough mixing.		22								22				
		23								23				
		24								24				

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Cruise Number: 2014-15		1								likely venter problem	1				
Event: 20		2			60	390	365	8.2	2.711	with bubble in	2				
Station: F001		3								reagent. CH	3				
Event Date (Local): 15 APR 14		4			62	631	300	8.1	2.816		4				
Analysis Date (Local): 16 APR 14		5									5				
Analyst: MARK BELTON		6			64	3142	250	8.0	3.357		6	2090	7.9	3.361	
Stdization Date (Local): 15 APR 14		7									7				
KIO ₃ N: 0.0098557		8			66	468	198	7.7	4.636		8				
Standard Titer: 0.7018		9									9				
Blank Titer: 0.0027		10			68	810	148	7.4	5.702		10				
THIO N: 0.14138		11									11				
Sample Flask Water Seal? ☒ Yes		12			70	309	101	7.1	5.971		12				
	No	13									13				
Reagent Change? MnCl ₂		14			72	715	77	7.1	5.987		14	2614	7.0	5.926	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15									15				
	H ₂ SO ₄	16			74	611	51	6.9	5.968		16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17									17				
	THIO	18			76	2033	30	7.1	6.495		18				
Notes:		19									19				
		20			78	2049	20	7.1	6.507		20				
		21									21				
		22			80	1053	10	7.0	6.513		22	3111	7.1	6.509	bubbles top of flask
		23									23				
		24			82	712	2	7.1	7.444		24				

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Cruise Number:	2014-15	1		97	3043	Bot 5	8.5	3.025		1				
Event:	24	2		98	528	200	7.8	4.754		2				
Station:	DOUG 31	3		99	3047	150	7.4	5.678		3	3009	7.3	5.683	
Event Date (Local):	15 APR 14	4		100	371	100	7.2	6.102		4				
Analysis Date (Local):	16 APR 14	5		101	2099	75	7.1	6.021		5				
Analyst:	MARK BELTON	6		102	2017	50	7.1	6.101		6				
Stdization Date (Local):	15 APR 14	7		103	3005	30	7.0	6.361		7	3019	7.1	6.342	
KIO ₃ N:	0.0098557	8		104	2064	20	7.1	6.646		8				
Standard Titer:	0.7018	9		105	658	10	7.0	6.720		9				
Blank Titer:	0.0077	10		106	3055	0	7.1	7.837		10				
THIO N:	0.14138	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				

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Cruise Number: 2014-15		1		110 612 6015						1				
Event: 29		2								2				
Station: DOUG40		3		110	612	6015	7.2	3.179	The vent was open	3	3124	7.2	3.155	
Event Date (Local): Apr 15, 2014		4		111	2087	350	7.1	3.278		4				
Analysis Date (Local): 16 APR 14		5		112	3061	300	7.0	3.542		5				
Analyst: MARK BELTON		6		113	1059	250	7.0	3.938		6				
Stdization Date (Local): 15 APR 14		7		114	2089	200	6.9	4.585		7				
KIO ₃ N: 0.0098557		8		115	94	150	6.6	5.876		8	1002	6.6	5.870	
Standard Titer: 0.7018		9		116	2095	100	6.5	6.181		9				
Blank Titer: 0.0027		10		117	1055	75	6.5	6.038		10				
THIO N: 0.14138		11		118	2091	50	6.5	6.065		11				
Sample Flask Water Seal? ☒ Yes ☐ No		12		119	3016	30	6.5	6.341		12				
		13		120	650	20	6.5	6.412		13				
Reagent Change? MnCl ₂		14		121	3116	10	6.6	6.958		14	2047	6.6	6.953	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		122	1015	0	6.8	7.701		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				

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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:	2014-15	1		83	1023	205	8.3	2.740		1	2068	8.5	2.732	
Event:	23	2								2				
Station:	Drug 26	3		85	3000	300	8.1	2.845		3				
Event Date (Local):	April 15/14	4								4				
Analysis Date (Local):	16 APR 14	5		87	3030	200	8.0	4.411		5				
Analyst:	MARK BELTON	6								6				
Stdization Date (Local):	15 APR 14	7		89	3164	100	7.5	6.022		7	557	7.6	6.027	
KIO ₃ N:	0.0098557	8								8				
Standard Titer:	0.7018	9		91	1622	50	7.6	6.208		9				
Blank Titer:	0.0027	10								10				
THIO N:	0.14138	11		93	2092	20	7.6	6.653		11				
Sample Flask	(Yes)	12								12				
Water Seal?	No	13		94	471	0	8.0	7.896		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 Number:	2014-15	1		125	2043	8015	7.8	3.164		1	196	7.9	3.156	
Event:	32	2		127						2				
Station:	DDUG 45	3		127	3070	350	7.3	3.480		3				
Event Date (Local):	Apr 15, 2014	4								4				
Analysis Date (Local):	16 APR 14	5		129	2065	250	7.2	4.164		5				
Analyst:	MARK BELTON	6								6				
Stdization Date (Local):	15 APR 14	7		131	3121	150	6.9	5.914		7	3029	6.7	5.918	
KIO ₃ N:	0.0098557	8								8				
Standard Titer:	0.7018	9		133	2020	75	6.8	5.908		9				
Blank Titer:	0.0027	10								10				
THIO N:	0.14138	11		135	745	30	6.5	6.060		11				
Sample Flask Water Seal?	Yes	12								12				
	No	13		137	1054	10	6.6	6.893		13	647	6.7	6.890	
Reagent Change?	MnCl ₂	14		138	690	0	7.0	7.947		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				

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Cruise Number:	2014-15	1		164	612	375	8.8	3.689		1				
Event:	049	2		165	3124	300	8.4	3.912		2				
Station:	SC74	3		166	2087	250	8.2	4.553		3				
Event Date (Local):	16 APR 14	4		167	3061	200	8.1	5.619		4				
Analysis Date (Local):	17 APR 14	5		168	1059	150	8.1	6.067		5				
Analyst:	MARK BELTON	6		169	2089	100	8.2	6.441		6	94	8.0	6.416	
Stdization Date (Local):	17 APR 14	7		170	1002	75	8.1	6.592		7				
KIO ₃ N:	0.0098557	8		171	2095	50	8.0	6.458	unclear endpoint - pls. check	8				
Standard Titer:	0.7022	9		172	1055	30	8.0	6.591		9				
Blank Titer:	0.0027	10		173	2091	20	8.1	6.752		10				
THIO N:	0.14138	11		174	306	10	8.1	6.717		11	650	8.2	6.791	
Sample Flask Water Seal?	(Yes) No	12		175	3116	0	8.1	6.824		12				
Reagent Change?	MnCl ₂	13								13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14								14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15								15				
	KIO ₃	16								16				
	THIO	17								17				
Notes:		18								18				
		19								19				
		20								20				
		21								21				
		22								22				
		23								23				
		24								24				

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Cruise Number: 2014-15		1								1				
Event: 39		2		141	3084	500	7.2	3.279		2	3010	7.2	3.256	
Station: SC 61		3								3				
Event Date (Local): 16 APR 14		4		143	2084	400	7.1	3.515		4				
Analysis Date (Local): 17 APR 14		5								5				
Analyst: MARK BELTON		6		145	2035	300	7.2	4.104		6				
Stdization Date (Local): 17 APR 14		7								7				
KIO ₃ N: 0.0098557		8		147	2069	200	7.1	4.915		8				
Standard Titer: 0.7022		9								9				
Blank Titer: 0.0027		10		149	396	150	6.9	5.745		10	3032	6.9	5.752	
THIO N: 0.14130		11								11				
Sample Flask Water Seal? ☒ Yes ☐ No		12		151	3022	100	6.9	6.385		12				
		13								13				
Reagent Change? MnCl ₂		14		153	552	75	6.8	6.457		14				
(Please circle reagent that was changed prior to sampling and standardization)		15								15				
NOTE NEW BATCH IN LOG BOOK		16		155	3007	30	6.8	6.504		16				
		17								17				
		18		157	3104	20	6.8	6.649		18				
		19								19				
Notes:		20		159	708	20	6.9	6.823		20				
		21								21				
		22		161	3034	10	7.1	6.897		22	3014	7.1	6.897	
		23								23				
		24		163	2059	17	7.1	6.955		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.