

Dissolved Oxygen Analysis Log Sheet

Last Updated: March 2014

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: 2015-01		1	✓✓	1	708	214	8.9	4.580		1				
Event: 3		2	✓✓	2	3104	200	8.9	4.592		2				
Station: HARO 59		3	✓✓	3	3042	175	8.8	4.635		3				
Event Date (Local):		4	✓✓	4	621	150	8.8	4.720		4				
Analysis Date (Local): 12 FEB 2015		5	✓✓	5	2061 ^A	125	8.9	4.778		5	1050 ^B	8.3	4.784	
Analyst: MB		6	✓✓	6	2051	100	8.9	4.813		6				
Stdization Date (Local): 12 FEB 2015		7	✓✓	7	3100	80	8.9	4.898		7				
KIO ₃ N: 0.0099666		8	✓✓	8	2056	60	8.9	4.957		8				
Standard Titer: 0.7080		9	✓✓	9	638	50	9.0	4.646	Brown did not have water in sample probably compromised sample	9				
Blank Titer: 0.0035		10	✓✓	10	3019	40	9.0	5.043		10				
THIO N: 0.41188		11	✓✓	11	3119	30	9.0	5.067		11				
Sample Flask Water Seal? (Yes) No		12	✓✓	12	3013	20	9.0	5.088		12				
Reagent Change? MnCl ₂		13	✓✓	13	3036	10	9.0	5.077		13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓✓	14	3116 ^A	5	9.0	5.071		14	3023 ^B	9.0	5.073	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15	✓✓	15	2007	0	9.1	5.080		15				
	KIO ₃	16								16				
	THIO	17								17				
Notes: SHARK BOX		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 Number:	2015-01	1	✓	✓	25	2025	177	9.0		Titration shot way past endpoint ^{restored} _{allow}	1					
Event:	S	2	✓	✓	26	2040	150	9.1	4.014		2					
Station:	JF2	3	✓	✓	27	510	125	9.0	4.236		3					
Event Date (Local):	11 FEB 2015	4	✓	✓	28	3072	100	9.0	4.388		4					
Analysis Date (Local):	13 FEB 2015	5	✓	✓	29	2075 ^A	80	9.1	4.500		5	3005 ^B	9.0	4.503		
Analyst:	MB	6	✓	✓	30	1404	60	9.0	4.667		6					
Stdization Date (Local):	12 FEB 2015	7	✓	✓	31	1411	50	9.0	4.775		7					
KIO ₃ N:	0.0099666	8	✓	✓	32	650	40	9.0	4.795		8					
Standard Titer:	0.7080	9	✓	✓	33	1409	30	9.0	4.916		9					
Blank Titer:	0.0035	10	✓	✓	34	1418	20	9.1	5.337		10					
THIO N:	0.14188	11	✓	✓	35	2073	10	9.5	5.742		11					
Sample Flask Water Seal?	(Yes) No	12	✓	✓	36	1401	5	9.9	6.044		12					
		13	✓	✓	37	2059	0	9.9	6.279		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:	SHARK BOX BACK	19									19					
	WHALE BOX	20									20					
	Moby	21									21					
	48 18 01	22									22					
	124 00 14	23									23					
	11:12	24									24					

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Cruise Number:	2015-01	1	✓	✓	49	1407 _A	116	10.2	4.563		1	2033 _B	10.1	4.572	
Event:	10	2	✓	✓	50	621	30m	11.3	6.224		2				
Station:	P1	3	✓	✓	51	3194	5m	11.3	6.311		3				
Event Date (Local):	11 FEB 2015	4									4				
Analysis Date (Local):	13 FEB 2015	5									5				
Analyst:	MB	6									6				
Stdization Date (Local):	12 FEB 2015	7									7				
KIO ₃ N:	0.0099666	8									8				
Standard Titer:	0.7080	9									9				
Blank Titer:	0.0035	10									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)	MnCl ₂	14									14				
	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:	2015-01	1	✓✓	96	3029	106	9.7	4.201		1	2088 ^B	9.7	4.217	
Event:	16	2	✓✓	97	3031	100	9.6	4.278	big bubble on probe, did not get over 85/T ₁₀₀	2				
Station:	P2	3	✓✓	98	1054	75	10.7	5.615		3				
Event Date (Local):	11 FEB 2015	4	✓✓	99	2086	75	10.7	5.620		4				
Analysis Date (Local):	11 FEB 2015	5	✓✓	100	3074	50	11.1	5.752		5				
Analyst:	MB	6	✓✓	101	1035	25	11.2	6.277		6				
Stdization Date (Local):	12 FEB 2015	7	✓✓	102	3033	10	11.2	6.282		7				
KIO ₃ N:	0.0099606	8	✓✓	103	657	5	11.2	6.274		8				
Standard Titer:	0.7080	9								9				
Blank Titer:	0.0035	10								10				
THIO N:	0.14188	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				
Notes: DINO		18								18				
Depth 115		19								19				
48 36 01		20								20				
125 59 97		21								21				
23:20		22								22				
		23								23				
		24								24				

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Cruise Number:	2015-01	1	✓ X	286	708	2000	3.5	1.257	spigot leaking small bubble on O2K.	1	3104	3.6	1.261	286B
Event:	30	2	✓ ✓	287	3042	1500	3.8	0.575		2				
Station:	P8	3	✓ ✓	288	621	1250	4.3	0.335		3				
Event Date (Local):	12/2/15	4	✓ ✓	289	2061	1000	4.7	0.231		4				
Analysis Date (Local):	14 FEB 2015	5	✓ ✓	290	1050	800	5.2	0.261		5				
Analyst:	mb	6	✓ X	291	2051	600	5.6	0.593	slight leak	6				
Stdization Date (Local):	12 FEB 2015	7	✓ ✓	292	3100	400	6.0	1.946	bottom cap not closed → leak	7				
KIO ₃ N:	0.0099666	8	✓ ✓	293	2056	300	6.7	2.557		8				
Standard Titer:	0.7080	9		294	638	250			Bottle did not close	9	3019			294B
Blank Titer:	0.0635	10	✓ ✓	295	3119	200	7.5	3.587		10				
THIO N:	0.14188	11	✓ ✓	296	3013	175	7.6	3.889		11				
Sample Flask Water Seal?	Yes	12	✓ ✓	297	3036	150	7.6	4.386		12				
	No	13	✓ ✓	298	3116	125	7.7	4.879		13				
Reagent Change?	MnCl ₂	14	✓ X	299	3023	100	8.1	5.428	slight leak on 13	14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓ ✓	300	2007	75	9.9	6.122		15				
	H ₂ SO ₄	16	✓ ✓	301	3098	50	10.1	6.415		16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17	✓ ✓	302A	1019	25	10.1	6.420		17	3025	10.1	6.427	302B
	THIO	18	✓ ✓	303	3010	10	10.2	6.448		18				
Notes:		19	✓ ✓	304	1055	5	10.2	6.437		19				
		20								20				
		21								21				
		22								22				
		23								23				
		24								24				

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Cruise Number:	2015-01	1			343	471	3271	3.1	2.298		1				
Event:	40	2			344	3035	3000	3.0	2.255		2				
Station:	P12	3			345	3073	3000	2.9	2.271		3				
Event Date (Local):	13-02-2015	4			346	2094	2500	3.1	1.855		4	3968	3.3	1.850	put in wrong depth (2500)
Analysis Date (Local):	14 Feb 2015	5			347	1002	2000	3.4	1.228		5				
Analyst:	mb	6			348	3093	1500	3.8	0.641		6				
Stdization Date (Local):	17 Feb 2015	7			349	3079	1250	4.2	0.382	noisy titration	7				
KIO ₃ N:	0.0079666	8			350	2082	1000	4.7	0.246		8	3043	4.9	0.233	
Standard Titer:	0.7080	9			351	3030	800	5.2	0.268		9				
Blank Titer:	0.0035	10			352	1472	600	5.7	0.700		10				
THIO N:	0.00188	11			353	3080	400	6.1	1.685		11				
Sample Flask Water Seal?	Yes	12			354	3078	300	6.6	2.800		12				
	No	13			355A	3095	250	7.7	3.781		13	3085	7.1	3.781	
Reagent Change?	MnCl ₂	14			356	3096	200	7.9	4.359		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			357	575	175	8.3	4.662		15				
	H ₂ SO ₄	16			358	462	150	8.5	4.992		16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17			359	386	125	8.4	5.295		17				
	THIO	18			360	3088	100	8.5	5.483		18				
Notes:		19			361A	3086	75	10.5	6.356		19	3081	10.5	6.364	
		20			362	3083	50	10.5	6.384		20				
		21			363	547	25	10.5	6.425		21				
		22			364	1417	10	10.4	6.425		22				
		23			365	1446	5	10.5	6.419		23				
		24									24				

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Cruise Number: 2015-01		1	✓	✓	484	3029	3683	2.8	2.725	bubbles in flask	1				
Event: 54		2	✓	✓	485	2088	3500	2.6	2.672		2				
Station: P16		3	X	✓	486	3031	3500	2.8	2.676	slight leak	3				
Event Date (Local): 14 Feb 2015		4	✓	✓	487	1054	3000	3.3	2.368		4				
Analysis Date (Local): 16 FEB 2015		5	✓	✓	488A	2086	2500	3.0	1.867		5	488B	3.1	1.873	3074
Analyst: MB		6	X	✓	489	1035	2000	3.2	1.866	slight leak	6				
Standardization Date (Local): 16 FEB 2015		7	X	✓	490	3033	1500	3.7	0.490	slight leak	7				
KIO ₃ N: 0.0099666		8	✓	✓	491	657	1250	4.0	0.317		8				
Standard Titer: 0.7087		9	✓	✓	492	611	1000	4.4	0.331		9				
Blank Titer: 0.0035		10	✓	✓	493	3028	800	4.9	0.336		10				
THIO N: 0.4173		11	✓	✓	494	1416	600	5.5	0.502		11				
Sample Flask Water Seal? ☒ Yes ☐ No		12	✓	✓	495	371	400	5.8	1.536		12				
Reagent Change? MnCl ₂		13	✓	✓	496A	3067	300	6.2	2.101	← should have come back one dose.	13	496B	6.3	2.127	2014 (bottle on probe did not get 2500 85% Temp)
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	X	✓	497	658	250	6.7	2.891	slight leak	14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15	✓	✓	498	2099	200	7.2	3.718		15				
	KIO ₃	16	✓	✓	499A	3068	175	7.5	3.596		16	499B	7.5	3.580	3007
	THIO	17	✓	✓	500	3090	150	7.7	4.470		17				
Notes:		18	✓	✓	501	3040	125	7.8	5.298		18				
Depth 3633		19	✓	✓	502	212	100	8.2	5.731		19				
49 17 01		20	✓	✓	503A	2087	75	9.5	6.439		20	503B	9.6	6.425	94
134 40 00		21	✓	✓	504	1015	50	9.7	6.519	bubble when dispensing acid	21				
0632		22	✓	✓	505	3076	25	9.8	6.501		22				
		23	✓	✓	506	2097	10	9.9	6.509		23				
		24	✓	✓	507	3118	5	9.8	6.516		24				

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Cruise Number:	2015-01	1			571	3029	4025	3.2	2.989		1				
Event:	67	2			572	2088	3500	2.6	2.872		2				
Station:	P20	3			573	3031	3500	2.4	2.857		3				
Event Date (Local):	16 FEB 2015	4			574	1054	3000	2.6	2.505		4				
Analysis Date (Local):	21 FEB 2015	5			575	2086A	2500	2.8	1.871		5	3074B	2.8	1.853	
Analyst:	PhS	6			576	1135	2000	3.1	1.229		6				
Stdization Date (Local):	21 FEB 2015	7			577	3033	1500	3.3	0.485		7				
KIO ₃ N:	0.0099466	8			578	657	1250	3.6	0.335		8				
Standard Titer:	0.7075	9			579	611	1000	4.2	0.375		9				
Blank Titer:	0.0035	10			580	3028	800	4.6	0.441		10				
THIO N:	0.14198	11			581	1416	600	4.9	0.689		11				
Sample Flask Water Seal?	Yes	12			582	371	400	5.2	1.390		12				
	No	13			583	3067A	300	5.4	2.224		13	2040	5.5	2.220	
Reagent Change?	MnCl ₂	14			584	658	250	5.7	2.841		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			585	2077	200	6.1	3.447		15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			586	3068	175	6.4	3.766		16				
	KIO ₃	17			587	3070A	150	6.8	4.131		17	3090B	6.9	4.130	
	THIO	18			588	5040	125	7.3	4.636		18				
Notes:		19			589	612	100	7.5	5.363		19				
		20			590	2187	75	9.0	6.393		20				
		21			591	94	50	9.3	6.520		21				
		22			592	1015	25	9.3	6.514		22				
		23			593	3076A	16	9.3	6.518		23	2097B	9.4	6.514	
		24			594	3118	5	9.3	6.527		24				No leaking

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Cruise Number:	2015-01	1			768	471	4316	2.1	3.210		1				
Event:	93	2			769	3035a	4000	2.0	3.146		2	3073g	2.0	3.143	
Station:	P26	3			770	2094	3500	2.0	2.927		3				
Event Date (Local):	18 FEB 2015	4			771	396	3000	2.1	2.522		4				
Analysis Date (Local):	21 FEB 2015	5			772	1002	2500	2.2	1.918		5				
Analyst:	MB	6			773	3093	2000	2.5	1.245		6				
Stdization Date (Local):	21 FEB 2015	7			774	3079	1500	2.9	0.627		7				
KIO ₃ N:	0.00991606	8			775	2082a	1250	3.1	0.473		8	3043g	3.1	0.441	
Standard Titer:	0.7075	9			776	3030	1000	3.4	0.449		9				
Blank Titer:	0.0035	10			777	1472	800	3.8	0.469		10				
THIO N:	0.14198	11			778	3086	600	4.1	0.517		11				Slight vent leak
Sample Flask Water Seal?	Yes	12			779	3078	400	4.3	0.854		12				
	No	13			780	3095	300	4.4	1.174		13				
Reagent Change?	MnCl ₂	14			781	3085a	250	4.4	2.004		14	3076g	4.4	2.058	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			782	575	200	4.6	2.731		15				
	H ₂ SO ₄	16			783	462	175	4.9	3.143		16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17			784	586	150	5.1	3.747		17				
	THIO	18			785	3088a	125	5.5	4.436		18	3086g	5.5	4.430	
Notes:		19			786	3081	100	6.7	5.872		19				
		20			787	3083	75	7.4	6.727		20				
		21			788	547	50	7.5	6.728		21				
		22			789	1417	25	7.5	6.766		22				
		23			790	1446	10	7.5	6.775		23				
		24			791	1422	5	7.5	6.774		24				

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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: 2015-01		1	✓✓	243	639	1321	4.7	0.519		1				
Event: 121		2	✓✓	244	384	1250	4.7	0.393		2				
Station: P4		3	✓X	245	2065 ^A	1250	4.6	0.388		3	1470 ^B	4.6	0.394	
Event Date (Local): 22/2/2015		4	✓✓	246	1408	1000	5.2	0.230		4				
Analysis Date (Local): 23 FEB 2015		5	✓✓	247	2020	800	5.5	0.249		5				
Analyst: MB		6	✓✓	248	1203	600	5.9	0.515		6				
Stdization Date (Local): 21 FEB 2015		7	✓X	249	557	400	6.7	1.158		7				
KIO ₃ N: 0.0099666		8	✓X	250	3000	300	7.5	2.085		8				
Standard Titer: 0.7075		9	✓✓	251	3164	250	8.3	2.475		9				
Blank Titer: 0.0035		10	✓✓	252	569	200	8.4	2.474		10				
THIO N: 0.14198		11	✓X	253	1460	175	8.8	2.818		11				
Sample Flask Water Seal? Yes		12	✓✓	254	3070	150	8.7	3.091		12				
	No	13	✓✓	255	622	125	9.1	3.332		13				
Reagent Change? MnCl ₂		14	✓✓	256	1442	100	9.3	3.840		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓✓	257	528 ^A	75	9.0	5.166		15	3107 ^B	9.3	5.163	
	H ₂ SO ₄	16	✓✓	258	2092	50	10.7	5.551		16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17	✓✓	259	1465	25	11.4	6.549		17				
	THIO	18	✓✓	260	1459	10	11.1	6.625		18				
Notes:		19	✓✓	261	3002	5	11.4	6.588		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.