

Dissolved Oxygen Analysis Log Sheet

Last Updated: March 2014

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information								DOY 1				DOY 2			
ID	V	S	ID	Flask 1	Depth (m)	Draw T 1 (°C)	DOY 1 (mL/L)	Comments	ID	Flask 2	Draw T 2 (°C)	DOY 2 (mL/L)	Comments		
Cruise Number: 2014-01	1		1	3084	100	8.0	2.278		1						
Event: 1	2		2	3010	75	7.8	3.919	- Funny end of curve. Please check.	2						
Station: S1	3		3	2084	50	7.7	5.084		3						
Event Date (Local): 02 April 2014	4		4	2035	40	7.7	5.227		4						
Analysis Date (Local): 02 April 2014	5		5	2069	30	7.6	5.142		5	396	7.7	5.153			
Analyst: KS	6		6	3032	20	7.7	5.017	- Incorrect flask ID → requires recalc (3033)	6						
Stdization Date (Local): 02 April 2014	7		7	3022	10	7.6	5.092		7						
KIO ₃ N: 0.0098302	8		8	552	5	7.8	5.674		8						
Standard Titer: 0.6997	9		9	3020	0	8.9	9.058	- Noisy. Many particles/plankton in sample.	9						
Blank Titer: 0.0020	10								10						
THIO N: 0.002	11								11						
Sample Flask Water Seal? <u>Yes</u>	12								12						
	13								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:	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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Blue

Cruise and Analysis Information								Comments				
ID	V	S	ID	Flask 1	Depth (m)	Draw T1 (°C)	OXY 1 (mL/L)	ID	Flask 2	Draw T2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2014-01		10	3190	227	8.3	5.208	1				spigot open but not leaking prior to sampling
Event:	3		11	631	200	8.4	5.215	2				
Station:	59		12	3142	175	8.4	5.282	3				
Event Date (Local):	April 2, 2014		13	2090	150	8.5	5.280	4	468	8.5	5.282	
Analysis Date (Local):	April 2, 2014		14	510	125	8.5	5.285	5				
Analyst:	KS		15	3209	100	8.6	5.283	6				
Stdization Date (Local):	April 2, 2014		16	715	75	8.8	5.293	7				
KIO ₃ N:	0.0098302		17	2014	50	9.0	5.300	8				
Standard Titer:	0.6997		18	611	40	10.0	5.294	9				- Endpoint may be early.
Blank Titer:	0.0020		19	2033	30	7.9	5.303	10	2049	7.9	5.300	
THIO N:	0.14130		20	1053	20	7.9	5.319	11				
Sample Flask Water Seal?	Yes		21	3111	10	7.9	5.501	12				- Not a good curve. Wack stir bar
Reagent Change?	No		22	712	5	7.9	5.329	13				OT = 0.03. DO = 0.152
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂		23	3038	0	7.9	5.316	14				Funny curve. Plankton in sample.
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH							15				
	H ₂ SO ₄							16				
	KIO ₃							17				
	THIO							18				
Notes:	Day watch.							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.

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GREEN

Cruise and Analysis Information		ID	V	S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2014-06	1	✓	✓	24	3084	250	7.4	2.085		1				
Event:	0007	2	✓	✓	25	3010	200	7.5	2.425		2				
Station:	102	3	✓	✓	26	2084	175	7.6	2.480		3				
Event Date (Local):	April 3, 2014	4	✓	✓	27	2035	150	7.9	3.235	→	4	2069	7.9	3.238	
Analysis Date (Local):	April 3, 2014	5	✓	✓	28	396	125	8.2	3.620		5				
Analyst:	KS	6	✓	✓	29	3032	100	8.2	4.299		6				
Stdization Date (Local):	April 2, 2014	7	✓	✓	30	3022	75	8.4	6.323		7				
KIO ₃ N:	0.0098302	8	✓	✓	31	552	50	8.5	7.724		8				
Standard Titer:	0.6997	9	✓	✓	32	3007	40	8.8	8.873	→	9	3104	8.6	8.684	- very poor
Blank Titer:	0.0020	10	✓	✓	33	708	30	9.5	10.054		10				
THIO N:	0.14130	11	✓	✓	34	3034	20	10.0	11.176		11				
Sample Flask Water Seal?	Yes	12	✓	✓	35	3014	10	10.3	10.430	- Zooplankton in sample	12				
Reagent Change?	MnCl ₂	13	✓	✓	36	2059	5	10.4	?	- " " " - Ended abruptly	13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓	✓	37	3023	0	10.5	10.709	FT= 1.868 OT= 0.031 (0.378mL/L)	14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15								(10.385) b a good curve	15				
	KIO ₃	16									16				
	THIO	17									17				
Notes:	Night watch.	18									18				
	T in box = 15.9°C	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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Yellow box

Computer problems / Coburimeter shutdown
led to crash. Sample was stirring

Cruise and Analysis Information																			
ID	V	S	ID	Flask 1	Depth (m)	Draw T1 (°C)	DOY 1 (mL/L)	Comments		ID	Flask 2	Draw T2 (°C)	DOY 2 (mL/L)	Comments					
Cruise Number: 1406	1		38	3121	222	7.9	2.488	- opened before DO sampled		1				for a few minutes.					
Event: 10	2		39	1223	200	7.9	2.511	- opened before DO sampled		2				1st try - dosed 0.04ml.					
Station: 75	3		40	647	175	7.9	2.633	→ opened before DO sample		3	2020	7.9	2.632	2nd try - titration ok.					
Event Date (Local): 3 April 2014	4		41	2043	150	8.0	3.115			4				Value is off					
Analysis Date (Local): 3 April 2014	5		42	3070	125	8.2	3.481			5									
Analyst: KS	6		43	1054	100	8.4	4.446			6									
Stdization Date (Local): 2 April 2014	7		44	690	75	8.5	4.684			7									
KIO ₃ N: 0.0098302	8		45	2040	50	8.6	5.033			8									
Standard Titer: 0.6997	9		46	620	40	8.7	5.361			9									
Blank Titer: 0.0020	10		47	196	30	8.9	6.136	→ 8.9 - Very large bubble under stopper		10	1019	9.0		- Titration ended abruptly					
THIO N: 0.14130	11		48	745	20	9.2	6.283			11									
Sample Flask Water Seal? ☒ Yes	12		49	3029	10	10.1	7.006	large bubble under stopper		12									
	13		50	3040	5	10.3	7.076	particles in sample		13									
Reagent Change? MnCl ₂	14		51	3076	surf	10.7	7.064	Not the best, but ok		14									
(Please circle reagent that was changed prior to sampling and standardization)	15									15									
	16									16									
NOTE NEW BATCH IN LOG BOOK	17									17									
	18									18									
Notes: Night watch #14-7	19									19									
Day watch #6-1	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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Water Properties Group

Blue

Cruise and Analysis information	ID	V	S	Sample ID	Flask 1	Depth (m)	Draw T1 (°C)	OXY 1 (mL/L)	Comments	ID	Flask 2	Draw T2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-06	1			52	3190	193	8.3	2.799		1				
Event: 13	2			53	631	175	8.4	2.795		2				
Station: 72	3			54	3142	150	8.4	2.821		3				
Event Date (Local): April 3, 2014	4			55	2090	125	8.5	3.328		4				
Analysis Date (Local): April 3, 2014	5			56	468	100	8.8	4.016 →		5	510	8.8	4.007	missing spigot collar
Analyst: KS	6			57	3209	75	8.9	4.611		6				
Stdization Date (Local): April 2, 2014	7			58	715	50	8.9	4.820		7				
KIO ₃ N: 0.0098302	8			59	2014	40	8.9	4.934		8				
Standard Titer: 0.6997	9			60	611	30	9.0	5.252 →		9	2033	9.0	5.247	
Blank Titer: 0.0020	10			61	2049	20	9.1	5.533		10				
THIO N: 0.14130	11			62	1053	10	9.4	6.202		11				
Sample Flask Water Seal? Yes No	12			63	3111	5	9.5	6.556	- Funny curve. Must check E.P.	12				
	13			64	712	sfc	9.8	6.897		13				
Reagent Change? MnCl₂ Nal/NaOH H₂SO₄ KIO₃ THIO	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: Day watch	19									19				
Tin box = 17.8°C	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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Yellow

FTDI setup.

PRIOR setup

Cruise and Analysis Information															
ID	V	S	ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments		
1			65	3121	174	8.1	3.021		1	1223	8.0	3.027			
2			66	647	150	8.0	3.029	8.0 temp	2	2020	8.0	3.030			
3			67	2043	125	8.2	3.815		3	3070	8.2	3.812			
4			68	1054	100	8.2	4.407		4	690	8.3	4.393			
5			69	2040	75	8.4	4.770		5	620	8.4	4.763			
6			70	196	50	8.4	5.075		6	1019	8.5	5.073			
7			71	745	40	8.5	5.251	- Funky curve. Needs checking	7	3029	8.5	5.219	??		
8			72	3040	30	8.6	5.387		8	3076	8.7	5.387			
9			73	1050	20	9.0	6.552	- zooplankton swirling in sample	9	639	9.1	6.149			
10			74	569	10	9.5	6.869	- " Titration ok. "	10	2055	9.6	6.861			
11			75	3098	5	9.9	6.890		11	657	10	6.896			
12			76	2063	stc	10.2	6.932		12	2065	10.2	6.929			
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: Laptop/USB to serial adapter test

column OXY 1 = Win 7 HP w FTDI
column OXY 2 = Win XP Dell w ~~FTDI~~
T in box = 18.1°C prior version

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.

* Copied standardization info from laptop (HP) to laptop (Dell). The only changes made to system are the laptop + serial to USB adapters

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Green

Cruise and Analysis Information												Cruise and Analysis Information							
ID	Nick	V	S	Sample ID	Flask 1	Depth (m)	Draw T1 (°C)	OXY 1 (mL/L)	Comments	ID	Nick	Flask 2	Draw T2 (°C)	OXY 2 (mL/L)	Comments				
1				77	3084	115	8.2	4.292		1									
2				78	3010	100	8.3	5.242		2									
3				79	2084	75	8.4	6.189		3									
4				80	2035	50	8.5	6.632		4									
5				81	2069	40	8.5	6.544		5									
6				82	369	30	8.5	6.711		6		3032	8.6	6.690					
7				83	3022	20	8.6	6.805		7									
8				84	552	10	8.0	7.962		8									
9				85	3007	5	9.0	8.176	Plankton floating around in sample	9									
10				86	3104	0	9.0	8.622		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: Day watch.

T in box = 21.3°C

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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Blue Star 62

Cruise and Analysis Information												
ID	Nick Int	Sample	Flask 1	Depth (m)	Draw	OXY 1 (mL/L)	Comments	ID	Flask 2	Draw	OXY 2 (mL/L)	Comments
1		97	3190	145	8.1	4.924		1				
2		98	631	125	8.3	5.118		2				
3		99	3142	100	8.2	5.197		3				
4		100	2090	75	8.2	5.361	→ Plankton in sample	4	468	8.3	5.368	
5		101	510	50	8.2	5.491		5				
6		102	3209	40	8.3	5.487		6				
7		103	715	30	8.4	5.504		7				
8		104	2014	20	8.4	5.520		8				
9		105	611	10	8.3	5.559	→	9	2033	8.4	5.563	
10		106	2049	5	8.6	5.571		10				
11		107	1053	surf	8.4	5.584		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				

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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GREEN

Cruise and Analysis information	ID	Spigot Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 201406	1	X	108	3084	228	10.4	5.494	Spigot was pushed in	1				
Event: 32	2		109	3010	200	10.1	5.501		2				
Station: 56	3		110	2084	175	9.8	5.504		3				
Event Date (Local): 4 Apr 2014	4		111	2035	150	9.7	5.505		4				
Analysis Date (Local): April 4, 2014	5		112	2069	125	9.5	5.509		5				
Analyst: KS	6		113	396	100	9.3	5.506		6				
Stdization Date (Local): Apr. 14, 2014	7		114	3032	75	9.2	5.504	→	7	3022	9.2	5.518	
KIO ₃ N: 0.0098302	8		115	552	50	9.2	5.561		8				
Standard Titer: 0.6995	9		116	3007	40	9.5	5.625		9				
Blank Titer: 0.0030	10		117	3104	30	9.8	5.621		10				
THIO N: 0.14154	11		118	708	20	10.5	5.638		11				
Sample Flask Water Seal? Yes	12		119	3034	10	10.6	5.644	→ Check EP. May be late.	12	3014	10.4	5.631	
	13		120	2059	5	11.0	5.648		13				
Reagent Change? MnCl ₂	14		121	3023	surf	11.5	5.632		14				
(Please circle reagent that was changed prior to sampling and standardization)	15								15				
	16								16				
NOTE NEW BATCH IN LOG BOOK	17								17				
	18								18				
Notes: Night watch.	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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Yellow

Cruise and Analysis information	ID	Flask 1	Depth (m)	Draw T1 (°C)	OXY 1 (mL/L)	Comments	ID	Flask 2	Draw T2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-06	1	122 3121	173	9.5	5.413		1				
Event: 39	2	123 2065	150	9.3	5.436	- odd end of curve. Check E.P.	2				
Station: 46	3	124 647	125	9.5	5.456		3				
Event Date (Local): Apr 4/14	4	125 2020	100	9.7	5.481	→	4	2043	9.5	5.488	
Analysis Date (Local): April 4, 2014	5	126 3070	75	9.4	5.560		5				
Analyst: KS	6	127 1054	50	9.0	5.421		6				
Stdization Date (Local): Apr. 4, 2014	7	128 690	40	9.1	5.492		7				
KIO ₃ N: 0.0098302	8	129 2040	30	9.2	5.460		8				
Standard Titer: 0.6995	9	130 620	20	9.2	5.586	→	9	196	9.3	5.577	
Blank Titer: 0.0030	10	131 1019	10	9.4	5.838		10				
THIO N: 0.14154	11	132 745	5	9.6	6.213		11				
Sample Flask Water Seal? ☒ Yes	12	133 3029	0	10.0	6.267		12				
	13						13				
Reagent Change? ☒ MnCl ₂	14						14				
(Please circle reagent that was changed prior to sampling and standardization)	15						15				
	16						16				
NOTE NEW BATCH IN LOG BOOK	17						17				
	18						18				
Notes: Day Watch	19						19				
	20						20				
T inside box = 22.9°C	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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Blue

Cruise and Analysis Information								Comments				Cruise and Analysis Information				Comments			
ID	V	S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)			ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)						
1			134	3190	315	8.2	3.714			1									
2			135	631	300	8.2	3.712			2									
3			136	3142	250	8.1	3.925			3									
4			137	2090	200	8.1	4.219			4									
5			138	468	175	8.1	4.260	→		5	510	8.2	4.265						
6			139	3209	150	8.2	4.424			6									
7			140	715	125	8.2	4.621			7									
8			141	2014	100	8.3	4.837			8									
9			142	611	75	8.3	4.743			9									
10			143	2033	50	8.3	5.038			10									
11			144	2049	40	8.3	5.459	→		11	1053	8.3	5.467						
12			145	3111	30	8.5	5.622			12									
13			146	712	20	8.6	5.837			13									
14			147	3038	10	8.7	6.522	- Noisy. Check E.P. Copepods in sample.		14							spigot drip		
15			148	621	5	9.3	7.979			15							spigot drip okay		
16			149	1094	0	9.6	8.444	many particles (phyto) in sample.		16									
17								Curve a bit noisy		17									
18								Curve very noisy. lots of phyto		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		Nick	Int	Sample	Flask 1	Temp (m)	Depth	OXY 1	Comments	Nick	Flask 2	Draw	OXY 2	Comments
ID	V	S	ID	Flask 1	Temp (m)	Depth	OXY 1	Comments	ID	Flask 2	Draw	OXY 2	Comments	
Cruise Number: 2014-06	1		150	3084	8.5	375	3.437			1				
Event: 47	2		151	3010	8.5	350	3.584			2				
Station: 39	3		152	2084	8.3	300	3.981			3				
Event Date (Local): 5 Apr 2014	4		153	2035	8.3	250	4.211			4				
Analysis Date (Local): April 5, 2014	5		154	2069	8.3	200	4.435	→		5	396	8.3	4.439	
Analyst: KS	6		155	3032	8.3	175	4.414			6				
Stdization Date (Local): April 4, 2014	7		156	3022	8.4	150	4.581			7				
KIO ₃ N: 0.0098302	8		157	552	8.6	125	4.400			8				
Standard Titer: 0.6995	9		158	3007	8.5	100	4.444	- Black particle in sample. Titration ok		9				
Blank Titer: 0.0030	10		159	3104	8.7	75	4.523			10				
THIO N: 0.14154	11		160	708	8.6	50	4.644			11				
Sample Flask (Yes)	12		161	3034	8.6	40	4.908	→		12	3014	8.6	4.900	
Water Seal? No	13		162	2059	8.7	30	5.614			13				
Reagent Change? MnCl ₂	14		163	3023	8.6	20	5.803			14				
(Please circle reagent that was changed prior to sampling and standardization)	15		164	3020	8.9	10	6.852	- Noisy. Many particles/phyto in sample.		15				
NOTE NEW BATCH IN LOG BOOK	16		165	2056	9.2	5	7.782			16				
	17		166	3021	9.2	Surf	7.875			17				
	18									18				
Notes: Night watch	19									19				
T = 15.7°C	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

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Water Properties Group

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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:	2014-06	1	☐	167	3190	363	8.2	3.476		1				
Event:	53	2	☐	168	631	260	8.2	3.753		2				
Station:	Stn 27	3	☐	169	3192	260	8.2	3.797		3				
Event Date (Local):	5 Apr 2014	4	☐	170	2090	260	8.2	3.744	→	4	468	8.2	3.745	
Analysis Date (Local):	Apr 15, 2014	5	☐	171	510	175	8.0	4.205		5				
Analyst:	KS	6	☐	172	3209	150	7.9	4.430		6				
Stdization Date (Local):	Apr 14, 2014	7	☐	173	715	125	8.0	4.367		7				
KIO ₃ N:	0.0098302	8	☐	174	2014	100	8.2	4.187		8				
Standard Titer:	0.6995	9	☐	175	611	75	8.2	4.067		9				
Blank Titer:	0.0030	10	☐	176	2033	50	8.1	4.318		10				
THIO N:	0.14154	11	☐	177	2049	40	8.0	4.752	→	11	1053	8.1	4.761	
Sample Flask Water Seal?	Yes	12	☐	178	3111	30	8.0	5.298		12				
	No	13	☐	179	712	20	8.2	5.646		13				
Reagent Change?	MnCl ₂	14	☐	180	3030	10	8.5	7.177	Noisy. lots of phyto in sample.	14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	☐	181	621	5	8.9	9.375		15				
	H ₂ SO ₄	16	☐	182	1094	surf	9.0	9.496		16				
	KIO ₃	17	☐	183						17				
NOTE NEW BATCH IN LOG BOOK	THIO	18	☐							18				
Notes:	Night Watch.	19	☐							19				
		20	☐							20				
		21	☐							21				
		22	☐							22				
		23	☐							23				
		24	☐							24				

T = 16.4°C

Dissolved Oxygen Analysis Log Sheet

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YELLOW

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:	2014-06	1	☐	183	3121	278	8.9	3.226		1				
Event:	57	2	☐	184	2065	250	8.8	3.442		2				
Station:	2	3	☐	185	647	200	8.7	3.804	→	3	2020	8.7	3.802	
Event Date (Local):	April 5, 2014	4	☐	186	2043	175	8.7	3.919		4				
Analysis Date (Local):	April 5, 2014	5	☐	187	3070	150	8.8	4.001		5				
Analyst:	KS	6	☐	188	1054	125	8.7	3.977		6				
Stdization Date (Local):	April 4, 2014	7	☐	189	690	100	8.6	4.292		7				
KIO ₃ N:	0.0078302	8	☐	190	2040	75	8.6	4.493		8				
Standard Titer:	0.6995	9	☐	191	620	50	8.6	5.346		9				
Blank Titer:	0.0030	10	☐	192	196	40	8.7	5.577	→	10	1019	8.7	5.573	
THIO N:	0.14154	11	☐	193	745	30	8.8	5.762		11				
Sample Flask Water Seal?	☒ Yes No	12	☐	194	3029	20	8.6	6.120		12				
Reagent Change?	MnCl ₂	13	☐	195	3040	10	9.0	7.182	→ Noisy, lots of phylo and lots	13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	☐	196	3076	5	9.4	8.209		14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15	☐	197	1050	Surf	9.7	8.950		15				
	KIO ₃	16	☐							16				
	THIO	17	☐							17				
Notes:	Night Watch.	18	☐							18				
		19	☐							19				
		20	☐							20				
		21	☐							21				
		22	☐							22				
		23	☐							23				
		24	☐							24				

Dissolved Oxygen Analysis Log Sheet

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Green.

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:	2014-06	1	☐	214	3084	55	9.0	5.245		1				
Event:	63	2	☐	215	3010	50	9.0	5.251	- Endpoint may be late An odd	2				
Station:	BS17	3	☐	216	2084	40	9.1	5.310	step in the curve	3				
Event Date (Local):	April 5, 2014	4	☐	217	2035	30	9.1	5.284		4	2069	9.1	5.274	
Analysis Date (Local):	April 5, 2014	5	☐	218	396	20	9.2	5.590		5				
Analyst:	KS	6	☐	219	3032	10	9.3	6.303		6				
Stdization Date (Local):	April 4, 2014	7	☐	220	3022	5	9.5	7.186	- Noisy. Phyto in sample.	7				
KIO ₃ N:	0.0098302	8	☐	221	552	stc	9.7	7.321		8				
Standard Titer:	0.6995	9	☐							9				
Blank Titer:	0.0030	10	☐							10				
THIO N:	0.14154	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:	Day watch	19	☐							19				
	T = 17.5°C	20	☐							20				
		21	☐							21				
		22	☐							22				
		23	☐							23				
		24	☐							24				

Dissolved Oxygen Analysis Log Sheet

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Yellow

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:	2014-06	1	☐	222	3121	186	8.4	3.888		1				
Event:	67	2	☐	223	2065	175	8.3	4.233		2				
Station:	6	3	☐	224	647	150	8.5	3.947		3				
Event Date (Local):	April 5, 2014	4	☐	225	2020	125	8.5	3.692		4				
Analysis Date (Local):	April 5, 2014	5	☐	226	2043	100	8.4	4.329	→	5	3070	8.4	4.328	
Analyst:	KS	6	☐	227	1054	75	8.3	4.658	- Stopper was a little loose	6				
Stdization Date (Local):	April 4, 2014	7	☐	228	690	50	8.3	5.377		7				according to Kenny
KIO ₃ N:	0.0098302	8	☐	229	2040	40	8.3	5.751		8				"really" Cindy
Standard Titer:	0.6995	9	☐	230	620	30	8.4	6.466		9				
Blank Titer:	0.0030	10	☐	231	196	20	8.7	6.786	→ Noisy curve but EP. may be ok.	10	1019	8.7	7.000	- Also quite noisy.
THIO N:	0.14154	11	☐	232	745	10	8.8	7.179	→ Lots of phyto	11				
Sample Flask Water Seal?	Yes	12	☐	233	3029	5	8.9	7.387		12				
	No	13	☐	234	3040	0	9.1	7.369		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:	Day Watch	19	☐							19				
	T=19.9°C	20	☐							20				
		21	☐							21				
		22	☐							22				
		23	☐							23				
		24	☐							24				

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Green

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:	2014-06	1	☐	247	3084	351	8.3	3.196		1				
Event:	73	2	☐	248	3010	306	8.2	3.598		2				
Station:	12	3	☐	249	2084	250	8.2	3.805		3				
Event Date (Local):	April 5, 2014	4	☐	250	2035	200	8.3	3.819	→ Much reagent residue above flask stopper.	4				
Analysis Date (Local):	April 6, 2014	5	☐	251	2069	175	8.3	3.795		5	396	8.3	3.803	
Analyst:	KS	6	☐	252	3032	150	8.3	3.690		6				
Stdization Date (Local):	April 6, 2014	7	☐	253	3022	125	8.4	3.610		7				
KIO ₃ N:	0.0098302	8	☐	254	552	100	8.5	3.871		8				
Standard Titer:	0.6990	9	☐	255	3007	75	8.5	4.232		9				
Blank Titer:	0.0030	10	☐	256	3104	50	8.4	5.777		10				
THIO N:	0.14164	11	☐	257	708	40	8.7	6.587		11				
Sample Flask Water Seal?	Yes	12	☐	258	3034	30	8.8	6.663		12				
	No	13	☐	259	3014	20	8.9	6.843	→	13	2059	9.0	6.853	pigot open
Reagent Change?	MnCl ₂	14	☐	260	3023	10	9.0	6.957		14				
(Please circle reagent that was changed prior to sampling and standardization)	Nal/NaOH	15	☐	261	3020	5	9.1	7.086		15				
	H ₂ SO ₄	16	☐	262	2056	0	10.2	7.324	→ large black particles swirling in sample.	16				
NOTE: NEW BATCH IN LOG BOOK	KIO ₃	17	☐							17				
	THIO	18	☐							18				
Notes: Day Watch		19	☐							19				
		20	☐							20				
		21	☐							21				
		22	☐							22				
		23	☐							23				
		24	☐							24				

T = 15.5°C

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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:	2014-06	1	☐	263	3190	309	8.2	3.448		1				
Event:	76	2	☐	264	631	250	8.3	3.602		2				
Station:	14	3	☐	265	3142	200	8.2	3.639		3				
Event Date (Local):	6 Apr 2014	4	☐	266	2090	175	8.4	3.455	⇒	4	468	8.3	3.457	
Analysis Date (Local):	April 6, 2014	5	☐	267	510	150	8.3	4.232		5				
Analyst:	KS	6	☐	268	3209	125	8.4	3.861		6				
Stdization Date (Local):	April 6, 2014	7	☐	269	715	100	8.4	4.232		7				
KIO ₃ N:	0.008302	8	☐	270	2014	75	8.5	4.730		8				
Standard Titer:	0.0030 0.6990	9	☐	271	611	50	8.6	5.435		9				
Blank Titer:	00030	10	☐	272	2033	40	8.6	5.533		10				
THIO N:	0.14164	11	☐	273	2049	30	8.5	5.921		11				
Sample Flask Water Seal?	Yes	12	☐	274	1053	20	8.5	6.183	⇒	12	3111	8.6	6.170	
	No	13	☐	275	712	10	8.8	6.834		13				
Reagent Change?	MnCl ₂	14	☐	276	3038	5	8.9	7.001		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	☐	277	621	surf	9.0	7.197		15				
	H ₂ SO ₄	16	☐							16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17	☐							17				
	THIO	18	☐							18				
Notes:	File name	19	☐							19				
	7376 by mistake	20	☐							20				
	should be 76.	21	☐							21				
		22	☐							22				
		23	☐							23				
		24	☐							24				

Dissolved Oxygen Analysis Log Sheet

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GREY

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: 2014-06		1	☐	278	1023	144	8.4	3.520		1				
Event: 78		2	☐	279	2068	125	8.4	3.477		2				
Station: 16		3	☐	280	3000	160	8.5	3.579		3				
Event Date (Local): 6 Apr 2014		4	☐	281	3030	75	8.5	4.062	→	4	3164	8.6	4.060	
Analysis Date (Local): April 6, 2014		5	☐	282	557	50	8.5	4.836		5				
Analyst: KS		6	☐	283	622	40	8.5	5.100		6				
Stdization Date (Local): April 6, 2014		7	☐	284	2092	30	8.5	5.105		7				
KIO ₃ N: 0.0098302		8	☐	285	471	20	8.5	5.384	→	8	3043	8.7	5.604	
Standard Titer: 0.6990		9	☐	286	528	108	8.8	5.729		9				
Blank Titer: 0.0030		10	☐	287	3047	98	9.1	6.149		10				
THIO N: 0.14164		11	☐	288	3009	907	9.7	6.166		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				