Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Note Many flask IDs invalid when running samples, replaced with one's that worked indicated in comments section with box around them ex. 3061

Last Updated: March 2014

Cruise and Analysis Information	
Cruise Number:	2014 - 19
Event:	3
Station:	HARO 59
Event Date (Local):	20 AOÛT 2014
Analysis Date (Local):	22 AUG 2014
Analyst:	MARK BELTON
Stdization Date (Local):	22AUG2014
KIO_3 N:	0.0099396
Standard Titer:	0.7055
Blank Titer:	0.0023
THIO N:	0.14148
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO

Notes:
White Box
48 36 78
123 14 83
1658
20AUG 2014

Nisk ID	Nisk Int V	Nisk Int 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	X	✓	1	612	225	11.5	2.783	slow drip	1				
2	✓	✓	2	3124	200	11.1	2.752		2				
3	✓	✓	3	2087	175	10.8	2.735	☆ invalid flask # changed to 3124	3				
4	✓	x	4	3061	150	16.8	2.792		4				
5	✓	✓	5A	1059	125	11.3	2.961	☆ invalid flask # changed to 3061	5	B 2089	11.3	3.017	☆ invalid flask # END POINT @ 901. Titrant changed to 3061
6	✓	✓	6	1002	100	11.7	3.673	Zeroed colorimeter, bubble in flask (small) ☆ invalid flask # changed to 3061	6				
7	✓	✓	7	94	80	11.6	3.259	very stiff spigot	7				
8	✓	✓	8	2095	60	11.9	3.348	3061	8				
9	✓	✓	9	1055	50	12.4	3.539	3061	9				
10	✓	✓	10	2091	40	12.3	3.869	bubble in flask	10				
11	✓	✓	11	3016	30	12.4	3.760		11				
12	✓	✓	12	650	20	12.3	3.756		12				
13	✓	✓	13	2047	10	12.9	4.268		13				
14	✓	✓	14A	1035	5	13.1	4.420	3061	14	B 3116	13.1	4.445	
15	✓	✓	15	1015	0	13.2	4.605	3061	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.

Dissolved Oxygen Analysis Log Sheet

Numbers in boxes are flask numbers changed to 2 valid number

Last Updated: March 2014

Institute of Ocean Sciences
Water Properties Group

M + M

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int 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:	2014-19	1	✓	✓	16	3084	175	10.6	1.818		1				
Event:	7	2	×	✓	17	2056	150	9.6	1.784		2				
Station:	JF2	3	✓	✓	18	2035	125	9.4	1.806		3				
Event Date (Local):	20AUG2014	4	✓	✓	19	7089	100	9.1	1.843		4				
Analysis Date (Local):	27 AUG 2014	5	✓	×	20A	3021B	80	9.5	2.185	2069 bubble on probe	5	3032B	9.3	2.230	17069
Analyst:	MB	6	✓	✓	21	3033	60	9.6	2.446		6				
Stdization Date (Local):	22AUG-2014	7	✓	✓	22	3022	50	9.9	2.494	2069	7				
KIO_3 N:	0.0099396	8	✓	✓	23	552	40	10.1	2.889		8				
Standard Titer:	0.7055	9	✓	✓	24	3007	30	10.8	3.502		9				
Blank Titer:	0.0023	10	✓	✓	25	3104	20	11.2	3.914		10				
THIO N:	0.14148	11	✓	✓	26	708	10	11.8	4.660	Check Endpoint - noticed thread on probe	11				
Sample Flask Water Seal?	(Yes) / No	12	✓	✓	27	3034	5	12.2	4.554		12				
		13	✓	✓	28	3014	0	13.2	4.609	2069	13				
Reagent Change?	$MnCl_2$	14									14				
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15									15				
	H_2SO_4	16									16				
	KIO_3	17									17				
	THIO	18									18				
Notes:		19									19				
		20									20				
		21									21				
		22									22				
		23									23				
		24									24				

GREEN BOX
048 17 97
124 0 00
2352 20AUG-2014

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

Boxed numbers in comments section are valid flasks used to replace invalid numbers

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int 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:	2014-19	1	Lit	✓	29	3010	109	9.2	1.641	top vent wasn't tight [2069]	1	~~2059~~ 2069	~~10.7~~	9.6°C	3023 [2069] 1.630
Event:	10	2			30	~~3020~~ 2059	30	10.7	4.289		2				
Station:	P1	3			31	~~3023~~ 3020	5	2.7	8.031	bubbles in flask [2069]	3				
Event Date (Local):	21AUG14	4									4				
Analysis Date (Local):	22AUG14	5									5				
Analyst:	MB	6									6				
Stdization Date (Local):	22AUG14	7									7				
KIO_3 N:	0.009396	8									8				
Standard Titer:	0.7055	9									9				
Blank Titer:	0.0023	10									10				
THIO N:	0.14148	11									11				
Sample Flask Water Seal?	(Yes) / No	12									12				
		13									13				
Reagent Change?	$MnCl_2$	14									14				
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15									15				
	H_2SO_4	16									16				
	KIO_3	17									17				
	THIO	18									18				
Notes: Bot 115 GREEN Box 048 34 53 125 29 98 0653 21AUG 2014		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.

Dissolved Oxygen Analysis Log Sheet

Boxed numbers in comments section are valid flasks used to replace invalid numbers

Last Updated: March 2014

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Water Properties Group

Cruise and Analysis Information	
Cruise Number:	2014-19
Event:	12
Station:	P2
Event Date (Local):	21AUG14
Analysis Date (Local):	22AUG14
Analyst:	MB
Stdization Date (Local):	22AUG14
KIO_3 N:	0.00049396
Standard Titer:	0.7055
Blank Titer:	0.0023
THIO N:	0.14148
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO

Notes:

Silver Box

048 35 95

126 00 05

0925 21AUG2014

Depth 117

Nisk ID	Nisk Int V	Nisk Int 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	sticky	✓	32	1023	108	9.5	1.696		1	2068	9.2	1.678	check endpoint bubble on probe
2	✓	✓	33	3005	100	9.0	1.678	2068	2				
3	✓	✓	34	3030	75	8.9	4.241	bubble in flask 2068	3				
4	✓	✓	35	3164	75	8.8	4.447	check endpoint	4				
5	✓	✓	36	557	50	9.4	5.725	small bubbles in flask	5				
6	✓	✓	37	622	25	10.8	5.446		6				
7	✓	✓	38	2092	10	12.1	5.417	bottle 8	7				Bot 7 was tripped by accident @ 17 m so the sample #'s shifted up one ie 7 became 8
8	✓	sticky	39	471	5	13.6	9.166	bottle 9 / top cap sticking, endpoint noisy.	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				

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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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int 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:	2014-19	1	✓	✓	116	3111	1325	6.9	0.458	2069	1				
Event:	25	2	✓	✓	117	3142	1256	6.2	0.410	check endpoint	2				
Station:	P4	3	✓	✓	118A	621	1250	5.9	0.405		3	B 3190	6.1	0.394	Check endpoint
Event Date (Local):	21 08 14	4	✓	✓	119	2014	1000	6.2	0.215		4				
Analysis Date (Local):	22AUG14	5	✓	x	120	2049	800	6.7	0.215		5				
Analyst:	MB	6	✓	✓	121	1053	600	7.1	0.486	2069	6				
Stdization Date (Local):	22AUG2014	7	✓	✓	122	2090	400	8.0	1.137		7				
KIO_3 N:	0.0099396	8	✓	x	123	510	300	8.5	1.690		8				
Standard Titer:	0.7055	9	✓	✓	124	2097	250	8.7	2.410		9				
Blank Titer:	0.0023	10	✓	✓	125	2061	200	9.2	2.606		10				
THIO N:	0.14148	11	✓	✓	126	3067	175	9.4	2.819		11				
Sample Flask Water Seal?	(Yes) / No	12	✓	✓	127	3118	150	9.5	3.324		12				
		13	✓	✓	128	2098	125	9.5	3.930	2069	13				
Reagent Change?	$MnCl_2$	14	✓	✓	129	3209	100	9.2	4.932		14				
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15	✓	✓	130A	712	75	9.2	5.593		15	B 611	9.4	5.554	
	H_2SO_4	16	✓	✓	131	468	50	10.0	6.168		16				
	KIO_3	17	✓	✓	132	631	25	12.1	5.944		17				
	THIO	18	✓	✓	133	505	10	14.5	6.371		18				
Notes:	Depth 1324	19	✓	✓	134	715	5	15.1	6.397		19				
0/8 38 98 N 126 39 96 W 0116 22AUG2014		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

Number with boxes in comments section are valid flasks replacing invalid numbers not in the file

Last Updated: March 2014

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information		
Cruise Number:	2014-19	3
Event:	39	4
Station:	P8	5
Event Date (Local):	22AUG14	6
Analysis Date (Local):	24AUG14	7
Analyst:	MB	8
Stdization Date (Local):	24AUG14	9
KIO_3 N:	0.00993396	10
Standard Titer:	0.7052	11
Blank Titer:	0.0023	12
THIO N:	0.14154	13
Sample Flask Water Seal?	(Yes)	14
	No	15
Reagent Change?	$MnCl_2$	16
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	17
	H_2SO_4	18
	KIO_3	19
	THIO	20
Notes: misfired 1+2 @ surface 0501 48 48 99 23AUG2014 128 39 99 Depth 2520		21

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments
1	✓	✓	218[A]	612	2000	7.3	1.269	
2	✓	✓	219	3084	1500	7.0	0.608	Check endpoint, last point dropped down
3	✓	✓	220	3061	1250	7.1	0.346	
4	✓	✓	221	2056	1000	7.3	0.235	Check endpoint
5	✓	✓	222	2069	800	7.6	0.312	
6	✓	✓	223	94	600	8.2	0.680	
7	✓	✓	224	2035	400	8.7	1.322	
8	✓	✓	225	3033	300	9.2	2.050	
9	✓	✓	226[A]	552	250	10.1	2.182	
10	✓	✓	227	3016	200	10.2	2.442	
11	✓	✓	228	650	175	10.5	2.729	extract new sample set here P8-2
12	✓	✓	229	2047	150	10.1	3.808	
13	✓	✓	230	3007	125	10.0	4.602	
14	✓	✓	231	3116	100	10.2	5.632	
15	✓	✓	232	3104	75	11.5	6.239	
16	✓	✓	233	~~708~~	50	13.7	6.753	
17	✓	✓	234[A]	3034	25	17.4	5.606	
18	✓	✓	235	2080	10	17.9	5.757	3034
19	✓	✓	236	2082	5	17.9	5.533	
20								
21								
22								
23								
24								

Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
1	[B]3124	6.7	1.264	
2				
3				
4				
5				
6				
7				
8				
9	[B]2091	10.1	2.191	
10				
11				
12				
13				
14				
15				
16				
17	[B]2059	17.6	5.656	
18				
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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Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int 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:	2014-19	1	✓	✓	285	1124	3274	8.4	2.314		1				
Event:	49	2	✓	—	286	1130	3000	7.6	2.284		2				
Station:	P12	3	✓	✓	287	1189	3000	7.3	2.317		3				
Event Date (Local):	23AUG14	4	lid ✓	✓	288[A]	1126	2500	7.7	1.846		4	[B]1178	7.2	1.826	Check end point - noisy
Analysis Date (Local):	25AUG14	5	✓	✓	289	1182	2000	7.4	1.272		5				
Analyst:	MB	6	✓	✓	290	1136	1500	7.4	0.649	zeroed colorimeter, check endpoint noisy	6				
Stdization Date (Local):	24AUG14	7	✓	✓	291	1114	1250	8.0	0399		7				
KIO_3 N:	0.0099396	8	✓	✓	292[A]	1144	1000	8.1	0231		8	[B]1128	8.3	0227	
Standard Titer:	0.7052	9	✓	✓	293	1110	800	8.8	0.231		9				
Blank Titer:	0.0023	10	✓	✓	294	1105	600	9.0	0562		10				
THIO N:	0.1415[4]	11	✓	✓	295	1138	400	9.5	1.255		11				
Sample Flask Water Seal?	(Yes) / No	12	✓	✓	296	1153	300	9.8	2.516		12				
		13	✓	✓	297[A]	1123	250	10.2	2.858		13	[B]1146	10.6	2.845	
Reagent Change?	$MnCl_2$	14	✓	✓	298	1158	200	10.6	3.606		14				
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15	✓	✓	299	1141	175	10.9	4.084		15				
	H_2SO_4	16	✓	✓	300	1119	150	10.9	4385		16				
	KIO_3	17	✓	✓	301	1106	125	11.0	5.215		17				
	THIO	18	✓	✓	302	1192	100	11.1	5.630		18				
Notes:	METAL BOX 1	19	✓	✓	303[A]	1180	75	11.6	5.951		19	[B]1188	12.0	5.949	
	2132 Depth 3230	20	✓	✓	304	1150	50	13.5	6300		20				
	23AUG2014	21	✓	✓	305	1175	25	16.9	6114		21				
	48 58 26	22	✓	✓	306	1127	10	18.7	5.542		22				
	130 39 94	23	✓	✓	307	1177	5	19.1	5537		23				
		24			308						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

Last Updated: March 2014

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Water Properties Group

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	~~Flask 1~~ M DEPTH	~~Depth~~ FLASK (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:	2014-19	1	✓	/	385	3688	1404	7.6	2.711	small bubbles in flask	1				
Event:	64	2	✓	✓	386	3500	1401	6.8	2.652	bubble in flask	2				
Station:	P16	3	✓	✓	387	3500	1426	6.7	2.670		3				
Event Date (Local):	25AUG 2014	4	✓	✓	388	3000	1418	6.5	2.399		4				
Analysis Date (Local):	26AUG 2014	5	✓	✓	389	2500	1416	6.5	1.865		5				
Analyst:	MB	6	✓	✓	390A	2000	1409	6.7	1.286	check end point bubbles in water	6	B1446	7.1	1.233	bubbles in water
Stdization Date (Local):	26AUG 2014	7	✓	✓	391	1500	1427	7.0	0.549		7				
KIO_3 N:	0.0099396	8	✓	✓	392	1250	1443	7.0	0.305		8				
Standard Titer:	0.7057	9	✓	✓	393	1000	1422	7.2	0.279		9				
Blank Titer:	0.0023	10	✓	✓	394	800	1434	7.6	0.346	messy endpoint	10				
THIO N:	0.14144	11	✓	✓	395	600	1411	8.0	0.551		11				
Sample Flask Water Seal?	(Yes)	12	✓	✓	396	400	1407	8.1	1.368		12				
	No	13	✓	✓	397A	300	1402	8.4	2.357		13	B1417	8.6	2.384	
Reagent Change?	$MnCl_2$	14	✓	✓	398	250	1428	8.6	2.914		14				
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15	✓	✓	399	200	1408	9.3	3.868		15				
	H_2SO_4	16	✓	✓	400A	175	1430	9.6		Flask broken when sampling?	16	B1440	9.9	4.228	
	KIO_3	17	✓	✓	401	150	1433	10.5	4.861		17				
	THIO	18	✓	✓	402	125	1442	10.2	5.617		18				
Notes: METAL BOX 3 0734 25AUG-14 49 16 99 134 40 03 Depth 3625		19	✓	✓	403	100	1413	10.6	6.013		19				
		20	✓	✓	404A	75	1470	11.4	6.350		20	B1472	11.7	6.334	
		21	✓	✓	405	50	1460	12.5	6.381		21				
		22	✓	✓	406	25	1465	16.5	6.046		22				
		23	✓	✓	407	10	1457	17.7	5.684		23				
		24	✓	✓	408	5	1459	17.9	5.791		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

Last Updated: March 2014

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information	
Cruise Number:	2014 - 19
Event:	79
Station:	P20
Event Date (Local):	26 AUG 2014
Analysis Date (Local):	27 AUG 2014
Analyst:	MS
Stdization Date (Local):	26 AUG 2014
KIO_3 N:	0.0099396
Standard Titer:	0.7057
Blank Titer:	0.0023
THIO N:	0.14144
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO

Notes:

METAL BOX #1
Depth 3945
1537
49 33 96
138 39 99

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments
1	✓	✓	470	1124	4027	7.5	2.949	check endpoint bubbles in vortex
2	✓	✓	471	1130	3500	6.7	2.796	
3	✓	✓	472	1189	3500	6.6	2.801	bubbles in flask check endpoint bubbles in vortex
4	✓	✓	473	1178	3000	6.7	2.439	messy endpoint
5	✓	✓	474	1182	2500	6.7	1.868	messy endpoint
6	✓	✓	475	1136	2000	6.6	1.207	
7	✓	✓	476	1114	1500	6.8	0.479	
8	✓	leaky	477	1144	1250	7.4	0.401	
9	✓	✓	478	1110	1000	7.5	0.364	
10	✓	✓	479	1105	800	7.8	0.493	
11	✓	✓	480	1138	600	8.0	0.686	Took samples outside to cool down
12	✓	✓	481	1153	400	8.3	1.335	
13	✓	✓	482	1123	300	8.3	1.933	
14	✓	✓	483	1158	250	8.4	2.676	redraw
15	✓	✓	484	1141	200	8.9	3.449	redraw 9.2°C
16	✓	✓	485	1119	175	8.9	3.925	
17	✓	✓	486	1106	150	9.4	4.349	
18	✓	✓	487	1192	125	9.7	5.266	
19	✓	✓	488	1180	100	9.8	6.002	
20	✓	✓	489	1188	75	10.4	6.218	redraw 10.5°C
21	✓	✓	490	1175	50	11.7	6.486	
22	✓	✓	491	1127	25	12.2	5.821	
23	✓	✓	492	1177	10	16.9	5.735	
24	✓	✓	493	1142	5	17.1	5.734	

TEMP CURVE

Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
1				
2				
3	1126	6.5	2.796	messy endpoint sample degassing
4				
5				
6				
7				
8	1128	7.5	0.420	
9				
10				
11				
12				
13	1146	8.2	1.936	
14				
15				
16				
17				
18				
19				
20	1150	10.4	6.057	Titration ended abruptly due to bubble on probe removed bubble & ran another titration, need to add volume of 211.15 titration to 2nd to the endpoint
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.

Dissolved Oxygen Analysis Log Sheet

Last Updated: March 2014

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information	
Cruise Number:	2014-19
Event:	104
Station:	P26
Event Date (Local):	28 08 14
Analysis Date (Local):	30 AUG 2014
Analyst:	MB
Stdization Date (Local):	30 AUG 2014
KIO_3 N:	0.0095396
Standard Titer:	0.7048
Blank Titer:	0.0023
THIO N:	0.14162
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO
Notes:	Depth 4224 METAL BOX 3 1955 28 AUG 2014 50 0 04 144 59 92

Nisk ID	Nisk Int V	Nisk Int 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	✓	✓	645	1404	4317	6.4	3.219		1				
2	✓	✓	646	1401 A	4000	5.7	3.154		2	B 1426	5.6	3.154	
3	✓	✓	647	1418	3500	5.4	2.905		3				
4	✓	✓	648	1416	3000	5.3	2.498		4				
5	leaky	✓	649	1409	2500	5.6	1.888		5				
6	✓	✓	650	1446	2000	5.7	1.211	endpoint <95% Trans, bubble on glass curve looks OK	6				
7	✓	✓	651	1427	1500	6.0	0.555		7				
8	✓	✓	652	1443 A	1250	6.2	0.457		8	B 1422	7.2	0.477	
9	✓	✓	653	1434	1000	6.6	0.487		9				
10	✓	✓	654	1411	800	6.8	0.457		10				
11	✓	✓	655	1407	600	7.1	0.523		11				
12	✓	✓	656	1402	400	7.2	1.092		12				
13	✓	✓	657	1417	300	7.2	1.585		13				
14	✓	✓	658	1428 A	250	7.3	2.120		14	B 1408	7.4	2.123	
15	leaky	✓	659	1440	200	7.6	2.960		15				
16	✓	✓	660	1433 1443	175	8.0	3.347		16				
17	✓	✓	661	1442	150	7.9	4.190		17				
18	✓	✓	662	1413 B	125	8.1	5.271		18	1470 B	8.2	5.280	
19	✓	✓	663	1472	100	9.1	6.225		19				
20	✓	✓	664	1460	75	10.3	6.585		20				
21	✓	✓	665	1465	50	11.0	6.757		21				
22	✓	✓	666	1457	25	14.6	6.091		22				
23	✓	✓	667	1459	10	15.1	6.150		23				
24	✓	✓	668	3073	5	15.1	6.110		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.