

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences
Water Properties Group

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: 2014-27	1	☐	1	3190	61	10.7	4.767		1				
Event: 001	2	☐	2	631	59	9.5	4.743		2				
Station: 29	3	☐	3	3142	57	9.3	4.804		3				
Event Date (Local): 8/4/14	4	☐	4	2090	25	9.2	5.124	x	4	468	9.2	5.132	
Analysis Date (Local): 8/4/14	5	☐	5	510	10	9.3	6.357		5				
Analyst: H.M.	6	☐	6	3209	5	9.4	6.682		6				
Stdization Date (Local): 7/4/14	7	☐	7	715	0	9.4	6.747		7				
KIO ₃ N: 0.0098557	8	☐							8				
Standard Titer: 0.7027	9	☐							9				
Blank Titer: 0.0027	10	☐							10				
THIO N: 0.14120	11	☐							11				
Sample Flask Water Seal? Yes	12	☐							12				
No	13	☐							13				
Reagent Change? MnCl ₂ x	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
NaI/NaOH x	16	☐							16				
H ₂ SO ₄ x	17	☐							17				
NOTE NEW BATCH IN LOG BOOK	18	☐							18				
KIO ₃ ✓	19	☐							19				
THIO ✓	20	☐							20				
Notes: 49° 24 71	21	☐							21				
124 34.79	22	☐							22				
14: 22	23	☐							23				
8/4/14	24	☐							24				

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences

Water Properties Group

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: 204-27	1	☐	8	611	61	9.1	4.691		1				
Event: 002	2	☐	9	2033	59	8.9	4.632		2				
Station: 28	3	☐	10	2049	57	8.9	4.670		3				
Event Date (Local): 8/4/14	4	☐	11	1053	25	8.8	5.117		4				
Analysis Date (Local): 8/4/14	5	☐	12	3111	10	8.8	6.223	CHECK DEPTH (MAY SAY 25m)	5	712	8.8	6.231	CHECK DEPTH
Analyst: H. J.	6	☐	13	3038	5	9.1	6.987		6				
Stdization Date (Local): 7/4/14	7	☐	14	621	0	9.2	6.973		7				
KIO ₃ N: 0.6098557	8	☐							8				
Standard Titer: 0.7027	9	☐							9				
Blank Titer: 0.6027	10	☐							10				
THIO N: 0.14120	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)	15	☐							15				
NOTE NEW BATCH IN LOG BOOK	16	☐							16				
	17	☐							17				
	18	☐							18				
Notes: 49° 26.40	19	☐							19				
124° 37.94	20	☐							20				
15:06	21	☐							21				
8/4/14	22	☐							22				
	23	☐							23				
	24	☐							24				

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences
Water Properties Group

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Cruise Number: 2014-27	1	☐	15	3121	59	8.9	4.441		1				
Event: 003	2	☐	16	2065	57	8.9	4.442		2				
Station: 23	3	☐	17	647	55	8.8	4.484		3				
Event Date (Local): 8/4/14	4	☐	18	2020	25	8.8	5.410		4	2043	8.9	5.413	
Analysis Date (Local): 8/4/14	5	☐	19	3070	10	9.2	6.591		5				
Analyst: H.M.	6	☐	20	1054	5	9.3	6.895		6				
Stdization Date (Local): 7/4/14	7	☐	21	690	0	9.3	6.920		7				
KIO ₃ N: 0.0098557	8	☐							8				
Standard Titer: 0.7027	9	☐							9				
Blank Titer: 0.0027	10	☐							10				
THIO N: 0.14120	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)	15	☐							15				
NOTE NEW BATCH IN LOG BOOK	16	☐							16				
	17	☐							17				
	18	☐							18				
Notes: 49° 27. 72	19	☐							19				
124° 39. 94	20	☐							20				
15:40	21	☐							21				
8/4/14	22	☐							22				
	23	☐							23				
	24	☐							24				

YELLOW

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences

Water Properties Group

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: 2014-22	1	☐	22	620	44	12.6	4.953		1	196	12.2	4.932	BAD E.P.
Event: 007	2	☐	23	1019	42	12.8	4.498		2				
Station: 22	3	☐	24	745	40	11.3	4.953		3				
Event Date (Local): 8/4/14	4	☐	25	3029	10	11.2	6.622		4				
Analysis Date (Local): 8/4/14	5	☐	26	3040	5	11.1	6.727		5				
Analyst: H.M.	6	☐	27	3076	0	10.8	6.728		6				
Stdization Date (Local): 7/4/14	7	☐							7				
KIO ₃ N: 0.0098557	8	☐							8				
Standard Titer: 0.7027	9	☐							9				
Blank Titer: 0.0027	10	☐							10				
THIO N: 0.1420	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)	15	☐							15				
NOTE NEW BATCH IN LOG BOOK	16	☐							16				
	17	☐							17				
	18	☐							18				
	19	☐							19				
	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

Notes: 49° 28.29
124° 41.67
18:22
8/4/14

YELLOW

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences

Water Properties Group

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: 2014-27	1	☒	28	3190	38	14.0	5.493		1				
Event: 010	2	☒	29	631	36	13.8	5.395		2				
Station: 20	3	☒	30	3142	34	12.8	5.430		3				
Event Date (Local): 8/4/14	4	☐	31	2090	25	12.8	5.676		4				
Analysis Date (Local): 8/4/14	5	☐	32	468	10	12.9	6.327		5	510	13.1	6.333	
Analyst: H.M.	6	☐	33	3209	5	13.5	6.499		6				
Stdization Date (Local): 7/4/14	7	☐	34	715	0	14.0	6.557		7				
KIO ₃ N: 0.0098557	8	☐							8				
Standard Titer: 0.7027	9	☐							9				
Blank Titer: 0.0027	10	☐							10				
THIO N: 0.14120	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)	15	☐							15				
NOTE NEW BATCH IN LOG BOOK	16	☐							16				
	17	☐							17				
	18	☐							18				
Notes: 49° 28.34	19	☐							19				
124° 44.81	20	☐							20				
20:23	21	☐							21				
8/4/14	22	☐							22				
	23	☐							23				
	24	☐							24				

BLUE

54, 52, 50, 10, 5, 0, 25

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences

Water Properties Group

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: 2014-27	1	☐	611	35	54	11.2	5.104		1				
Event: 013	2	☐	2033	36	52	10.3	5.000		2	2049	10.3	4.990	
Station: 17	3	☐	1053	37	50	9.8	4.973		3				
Event Date (Local): 8/4/14	4	☐	3111	38	25	10.0	6.059		4				
Analysis Date (Local): 8/4/14	5	☐	712	39	10	10.4	6.384		5				
Analyst: L.M.	6	☐	3038	46	5	10.3	6.649		6				
Stdization Date (Local): 7/4/14	7	☐	621	41	0	10.2	6.488	BAD C.P. - 96.5% NO BUBBLE?	7				
KIO ₃ N: 0.0098557	8	☐							8				
Standard Titer: 0.7027	9	☐							9				
Blank Titer: 0.0027	10	☐							10				
THIO N: 0.1420	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)	15	☐							15				
NaI/NaOH	16	☐							16				
H ₂ SO ₄	17	☐							17				
NOTE NEW BATCH IN LOG BOOK	18	☐							18				
KIO ₃	19	☐							19				
THIO	20	☐							20				
Notes: 49° 29.02	21	☐							21				
124° 46.17	22	☐							22				
21 : 19	23	☐							23				
8/4/14	24	☐							24				

BLUE

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences
Water Properties Group

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: 2014-27	1	☐	42	3190	26	8.7	5.603		1				
Event: 021	2	☐	43	631	24	8.3	5.518		2				
Station: 15	3	☐	44	3142	22	8.3	5.524		3				
Event Date (Local): 9/4/14	4	☐	45	2090	10	8.3	6.209		4	468	8.2	6.208	
Analysis Date (Local):	5	☐	46	510	5	8.2	6.530		5				
Analyst:	6	☐	47	3209	0	8.4	6.882		6				
Stdization Date (Local):	7	☐							7				
KIO ₃ N:	8	☐							8				
Standard Titer:	9	☐							9				
Blank Titer:	10	☐							10				
THIO N:	11	☐							11				
Sample Flask	12	☐							12				
Water Seal?	13	☐							13				
Reagent Change?	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				
49 ° 30.63	20	☐							20				
124° 49.00	21	☐							21				
14:16	22	☐							22				
9/4/14	23	☐							23				
	24	☐							24				

Dissolved Oxygen Analysis Log Sheet

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Institute of Ocean Sciences
Water Properties Group

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: 2014-27	1	☐	48	2014	48	8.9	4.522	48	1				
Event: 022	2	☐	49	611	46	8.3	4.448		2				
Station: 14	3	☐	50	2033	44	8.3	4.449		3				
Event Date (Local): 9/4/14	4	☐	51	2049	25	8.4	5.270		4				
Analysis Date (Local):	5	☐	52	1053	10	8.4	5.966		5				
Analyst:	6	☐	53	3111	5	8.5	6.571		6	712	8.5	6.568	
Stdization Date (Local):	7	☐	54	3038	0	8.7	6.835		7				
KIO ₃ N:	8	☐							8				
Standard Titer:	9	☐							9				
Blank Titer:	10	☐							10				
THIO N:	11	☐							11				
Sample Flask Yes	12	☐							12				
Water Seal? No	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: 49° 31.08	19	☐							19				
124° 48.70	20	☐							20				
15:04	21	☐							21				
9/4/14	22	☐							22				
	23	☐							23				
	24	☐							24				

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences

Water Properties Group

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-27	1	☐	55	3121	9.2	42	4.780		1				
Event: 25	2	☐	56	2065	8.9	40	4.756		2				
Station: 11	3	☐	57	647	8.7	38	4.714		3	2020	8.7	4.706	
Event Date (Local): 9/4/14	4	☐	58	2043	8.7	25	5.277		4				
Analysis Date (Local):	5	☐	59	3070	8.8	10	6.150		5				
Analyst:	6	☐	60	1054	9.0	5	6.911		6				
Stdization Date (Local):	7	☐	61	690	9.3	0	7.289		7				
KIO ₃ N:	8	☐							8				
Standard Titer:	9	☐							9				
Blank Titer:	10	☐							10				
THIO N:	11	☐							11				
Sample Flask Yes	12	☐							12				
Water Seal? No	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: 49° 32.18	19	☐							19				
124° 50.51	20	☐							20				
16:16	21	☐							21				
9/4/14	22	☐							22				
	23	☐							23				
	24	☐							24				

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences

Water Properties Group

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: 2014-27	1	☐	62	3121	47	10.3	3.981		1				
Event: 034	2	☐	63	2065	45	9.8	3.956		2				
Station: 8	3	☐	64	647	43	9.6	3.995		3	2020	9.5	3.996	
Event Date (Local): 9/4/14	4	☐	65	2043	25	9.8	5.282		4				
Analysis Date (Local): 9/4/14	5	☐	66	3070	10	10.0	6.489		5				
Analyst: H.M.	6	☐	67	1054	5	10.2	6.994		6				
Stdization Date (Local): 7/4/14	7	☐	68	690	0	10.4	7.967		7				
KIO ₃ N: 0.0098557	8	☐							8				
Standard Titer: 0.7027	9	☐							9				
Blank Titer: 0.0027	10	☐							10				
THIO N: 0.14120	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)	15	☐							15				
NaI/NaOH	16	☐							16				
H ₂ SO ₄	17	☐							17				
NOTE NEW BATCH IN LOG BOOK	18	☐							18				
KIO ₃	19	☐							19				
THIO	20	☐							20				
Notes: 49° 34.13	21	☐							21				
124° 51.60	22	☐							22				
20:40	23	☐							23				
9/4/14	24	☐							24				

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences

Water Properties Group

Last Updated: July 2013

Cruise and Analysis Information		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:	2014-27	☐	☐	69	620	41	10.1	4.899		1				
Event:	37	☐	☐	70	196	39	9.6	4.522						
Station:	5	☐	☐	71	1019	37	9.5	4.633		3				
Event Date (Local):	9/4/14	☐	☐	72	745	25	9.4	5.509		4	3029	9.4	5.487	
Analysis Date (Local):	9/4/14	☐	☐	73	3040	10	9.5	6.023		5				
Analyst:	H.M.	☐	☐	74	3016	5	9.6	6.636		6				
Stdization Date (Local):	7/4/14	☐	☐	75	1650	0	9.9	7.618		7				
KIO ₃ N:	0.0098557	☐	☐							8				
Standard Titer:	0.7027	☐	☐							9				
Blank Titer:	0.0027	☐	☐							10				
THIO N:	0.14120	☐	☐							11				
Sample Flask Water Seal?	Yes	☐	☐							12				
	No	☐	☐							13				
Reagent Change?	MnCl ₂	☐	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	☐	☐							15				
	H ₂ SO ₄	☐	☐							16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	☐	☐							17				
	THIO	☐	☐							18				
Notes:	49° 35-84	☐	☐							19				
	124° 51-56	☐	☐							20				
	21: 41	☐	☐							21				
	9/4/14	☐	☐							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

Institute of Ocean Sciences

Water Properties Group

Last Updated: July 2013

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:	2014-27							1	☐	☐	76	3190	33	10.9	4.597		1				
Event:	40							2	☐	☐	77	631	31	10.2	4.538		2				
Station:	2							3	☐	☐	78	342	29	10.0	4.621		3				DEPTH WRONG IN FILE
Event Date (Local):	9/4/14							4	☐	☐	79	2090	25	9.8	4.869		4	468	9.6	4.861	
Analysis Date (Local):	9/4/14							5	☐	☐	80	510	10	9.8	6.262		5				
Analyst:	A.M.							6	☐	☐	81	3209	5	10.0	7.759		6				
Stdization Date (Local):	7/4/14							7	☐	☐	82	715	0	10.2	8.577		7				
KIO ₃ N:	0.0098557							8	☐	☐							8				
Standard Titer:	0.7027							9	☐	☐							9				
Blank Titer:	0.0027							10	☐	☐							10				
THIO N:	0.14120							11	☐	☐							11				
Sample Flask Water Seal?	(Yes) No							12	☐	☐							12				
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:	49° 38.44							19	☐	☐							19				
	124° 53.67							20	☐	☐							20				
	23:04							21	☐	☐							21				
	9/4/14							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

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: 2014-27	1	☐	83	3190	176	9.8	3.663		1				
Event: * 43 *	2	☐	84	631	174	9.0	3.685		2				EUGENIT th SHOULD BE 51
Station: 34	3	☐	85	3142	172	8.8	3.694		3				
Event Date (Local): 10/4/14	4	☐	86	2090	125	8.8	3.788		4				
Analysis Date (Local): 10/4/14	5	☐	87	468	100	8.7	4.267		5				
Analyst: H.M	6	☐	88	510	75	8.6	4.654		6	3209	8.6	4.661	
Stdization Date (Local): 10/4/14	7	☐	89	715	50	8.5	4.897	BAD E.P.	7				
KIO ₃ N: 0.0098557	8	☐	90	2014	25	8.4	5.905		8				
Standard Titer: 0.703	9	☐	91	611	10	8.5	6.790		9				
Blank Titer: 0.0027	10	☐	92	2033	5	8.6	7.262		10				
THIO N: 0.14114	11	☐	93	2049	0	9.0	9.390		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)	15	☐							15				
NOTE NEW BATCH IN LOG BOOK	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

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2013

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:	2014-27	1	☐ ☐	94	1053	58	9.0	5.209		1				
Event:	53	2	☐ ☐	95	3111	56	8.7	5.031		2				
Station:	33	3	☐ ☐	96	712	54	8.6	5.037		3	3038	8.6	5.030	
Event Date (Local):	10/4/14	4	☐ ☐	97	621	25	8.8	6.289		4				
Analysis Date (Local):		5	☐ ☐	98	1094	10	9.0	7.297		5				
Analyst:		6	☐ ☐	99	2098	5	9.2	7.464		6				
Stdization Date (Local):		7	☐ ☐	100	2061	0	9.2	7.626		7				
KIO ₃ N:		8	☐ ☐							8				
Standard Titer:		9	☐ ☐							9				
Blank Titer:		10	☐ ☐							10				
THIO N:		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:	49° 30.53	19	☐ ☐							19				
	124° 42.78	20	☐ ☐							20				
	15:45	21	☐ ☐							21				
	10/4/14	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

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2013

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:	2014-27	1	☐ ☐	101	3121	44	9.3	5.588		1				
Event:	55	2	☐ ☐	102	2065	42	9.1	5.439		2				
Station:	32	3	☐ ☐	103	647	40	9.0	5.473		3				
Event Date (Local):	10/4/14	4	☐ ☐	104	2020	25	9.0	6.002		4				
Analysis Date (Local):		5	☐ ☐	105	2043	10	9.0	6.936	CHECK DEPTH in FILE - SHOULD BE 10m	5	3070	9.1	6.935	CHECK DEPTH in FILE - SHOULD BE 10m
Analyst:		6	☐ ☐	106	1054	5	9.1	7.394		6				
Stdization Date (Local):		7	☐ ☐	107	690	0	9.4	7.836		7				
KIO ₃ N:		8	☐ ☐							8				
Standard Titer:		9	☐ ☐							9				
Blank Titer:		10	☐ ☐							10				
THIO N:		11	☐ ☐							11				
Sample Flask	Yes	12	☐ ☐							12				
Water Seal?	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:	44° 33.52	19	☐ ☐							19				
	124° 44.34	20	☐ ☐							20				
	16:39	21	☐ ☐							21				
	10/4/14	22	☐ ☐							22				
		23	☐ ☐							23				
		24	☐ ☐							24				

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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2013

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:	2014-27	1	☐ ☐	108	620	45	9.8	5.488		1				
Event:	57	2	☐ ☐	109	196	43	9.5	5.247		2	1019	9.4	5.210	BAD E.P.
Station:	31	3	☐ ☐	110	745	41	9.2	5.315		3				
Event Date (Local):	10/4/14	4	☐ ☐	111	3029	25	9.2	6.055		4				
Analysis Date (Local):	10/4/14	5	☐ ☐	112	3040	10	9.4	6.568		5				
Analyst:	H.M.	6	☐ ☐	113	3076	5	9.4	6.708		6				
Stdization Date (Local):	10/4/14	7	☐ ☐	114	1050	0	9.6	6.747		7				
KIO ₃ N:	0.0098557	8	☐ ☐							8				
Standard Titer:	0.703	9	☐ ☐							9				
Blank Titer:	0.0027	10	☐ ☐							10				
THIO N:	0.14114	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)	NaI/NaOH	15	☐ ☐							15				
	H ₂ SO ₄	16	☐ ☐							16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17	☐ ☐							17				
	THIO	18	☐ ☐							18				
Notes:	49° 37.46	19	☐ ☐							19				
	124° 46.77	20	☐ ☐							20				
	17:44	21	☐ ☐							21				
	10/4/14	22	☐ ☐							22				
		23	☐ ☐							23				
		24	☐ ☐							24				

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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2013

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: 2014-27		1	☐ ☐	115	612	52	11.8	5.735		1				
Event: 60		2	☐ ☐	116	3124	50	10.9	5.762		2				
Station: 24		3	☐ ☐	117	2087	48	10.4	5.751		3				
Event Date (Local): 10/4/14		4	☐ ☐	118	3061	25	10.3	6.283		4	1059	10.3	6.269	
Analysis Date (Local):		5	☐ ☐	119	2089	10	10.3	6.606		5				
Analyst:		6	☐ ☐	120	94	5	10.6	6.914		6				
Stdization Date (Local):		7	☐ ☐	121	1002	0	10.5	6.969		7				
KIO ₃ N:		8	☐ ☐	1002						8				
Standard Titer:		9	☐ ☐							9				
Blank Titer:		10	☐ ☐							10				
THIO N:		11	☐ ☐							11				
Sample Flask Water Seal?	Yes	12	☐ ☐							12				
	No	13	☐ ☐							13				
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	MnCl ₂	14	☐ ☐							14				
	NaI/NaOH	15	☐ ☐							15				
	H ₂ SO ₄	16	☐ ☐							16				
	KIO ₃	17	☐ ☐							17				
	THIO	18	☐ ☐							18				
Notes: 49° 39.81 124° 51.17 19:13 10/4/14		19	☐ ☐							19				
		20	☐ ☐							20				
		21	☐ ☐							21				
		22	☐ ☐							22				
		23	☐ ☐							23				
		24	☐ ☐							24				

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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2013

Cruise and Analysis Information		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: 2014-27		☐	☐	122	1055	123	11.0	3.539		1				
Event: 65		☐	☐	123	2091	121	10.4	3.539						
Station: 35		☐	☐	124	3016	119	10.1	3.589		3				
Event Date (Local): 10/4/14		☐	☐	125	650	100	9.8	3.805		4	3116	9.8	3.828	
Analysis Date (Local):		5	☐	126	2047	75	9.7	4.652		5				
Analyst:		6	☐	127	1015	50	9.6	5.133		6				
Stdization Date (Local):		7	☐	128	1035	25	9.7	5.748		7				
KIO ₃ N:		8	☐	129	2060	10	9.8	6.814		8				
Standard Titer:		9	☐	130	2000	5	10.2	7.665		9				
Blank Titer:		10	☐	131	2082	0	10.2	7.723		10				
THIO N:		11	☐							11				
Sample Flask Water Seal?	Yes	12	☐							12				
	No	13	☐							13				
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	MnCl ₂	14	☐							14				
	NaI/NaOH	15	☐							15				
	H ₂ SO ₄	16	☐							16				
	KIO ₃	17	☐							17				
	THIO	18	☐							18				
Notes: 49° 41.94 124° 47.52 21:09 10/4/14		19	☐							19				
		20	☐							20				
		21	☐											
		22	☐							22				
		23	☐							23				
		24	☐							24				

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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2013

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: 2014-27	1	☐ ☐	132	390	136	10.6	3.486		1				
Event: 67	2	☐ ☐	133	631	134	10.3	3.480		2				
Station: 36	3	☐ ☐	134	3142	132	10.1	3.517		3				
Event Date (Local): 10/4/14	4	☐ ☐	135	2090	100	9.8	3.594		4				
Analysis Date (Local): 10/4/14	5	☐ ☐	136	468	75	9.6	4.723		5				
Analyst: H.T.	6	☐ ☐	137	510	50	9.7	5.107		6				
Stdization Date (Local): 10/4/14	7	☐ ☐	138	3209	25	9.7	5.614		7	715	9.7	5.611	CHECK DEPTH = 25m
KIO ₃ N: 0.0098557	8	☐ ☐	139	2014	10	9.8	6.730	CHECK DEPTH in FILE SHOULD BE 10m	8				
Standard Titer: 0.703	9	☐ ☐	140	611	5	10.0	6.912		9				
Blank Titer: 0.0027	10	☐ ☐	141	2033	0	9.9	6.934		10				
THIO N: 0.14114	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)	15	☐ ☐							15				
NaI/NaOH	16	☐ ☐							16				
H ₂ SO ₄	17	☐ ☐							17				
NOTE NEW BATCH IN LOG BOOK	18	☐ ☐							18				
KIO ₃	19	☐ ☐							19				
THIO	20	☐ ☐							20				
Notes: 49° 38.85	21	☐ ☐							21				
124° 43.20	22	☐ ☐							22				
22:07	23	☐ ☐							23				
10/4/14	24	☐ ☐							24				

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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2013

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: 2014-27	1	☐ ☐	142	3190	340	10.6	—	TIME FAULT - STARTED @ 100% (OP. ERROR)					
Event: 73	2	☐ ☐	143	631	338	10.1	2.623		2				
Station: 40	3	☐ ☐	144	3142	336	9.8	2.598		3				
Event Date (Local): 11/4/14	4	☐ ☐	145	2696	250	9.6	3.124		4				
Analysis Date (Local): 11/4/14	5	☐ ☐	146	468	200	9.3	3.517						
Analyst: H.M.	6	☐ ☐	147	510	150	9.1	4.105		6	3209	9.1	4.108	DEPTH SHOULD BE 150 NOT 100
Stdization Date (Local): 10/4/14	7	☐ ☐	148	715	100	9.1	3.769						
KIO ₃ N: 0.0098557	8	☐ ☐	149	2014	75	9.0	4.321		8				
Standard Titer: 0.703	9	☐ ☐	150	611	50	8.9	4.798		9				
Blank Titer: 0.0027	10	☐ ☐	151	2033	25	8.8	5.927		10				
THIO N: 0.14114	11	☐ ☐	152	2049	10	9.1	7.201		11				
Sample Flask Water Seal? ☒ Yes	12	☐ ☐	153	1053	5	9.6	9.413	BAD CP ... (DROPPED OUT)					
No	13	☐ ☐	154	3111	0	9.7	10.332	96.6 %					
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	☐ ☐											
	18	☐ ☐							18				
Notes: 49° 27.11	19	☐ ☐							19				
124° 28.32	20	☐ ☐							20				
14:55	21	☐ ☐							21				
11/4/14	22	☐ ☐							22				
	23	☐ ☐							23				
	24	☐ ☐							24				

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Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2013

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Cruise Number: 2014-27		☐ ☐	155	612	170	9.8	3.849		1				
Event: 74		☐ ☐	156	3124	168	9.5	3.880		2				
Station: 39	3	☐ ☐	157	2087	166	9.3	3.860		3				
Event Date (Local): 11/4/14	4	☐ ☐	158	3061	100	9.2	3.988		4				
Analysis Date (Local): 11/4/14	5	☐ ☐	159	1059	75	9.2	4.490		5				
Analyst: H.M.		☐ ☐	160	2089	58	9.0	5.394		6	94	9.0	5.391	
Stdization Date (Local): 10/4/14	7	☐ ☐	161	1002	25	9.1	6.334		7				
KIO ₃ N: 0.0098557	8	☐ ☐	112	2095	10	9.2	7.314		8				
Standard Titer: 0.703	9	☐ ☐	163	1055	5	9.6	9.413	(98%)	9				
Blank Titer: 0.0027	10	☐ ☐	164	2091	0	9.8	10.600	(97.6%)					
THIO N: 0.14114	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)	15	☐ ☐							15				
NaI/NaOH	16	☐ ☐							16				
H ₂ SO ₄	17	☐ ☐							17				
KIO ₃	18	☐ ☐							18				
THIO	19	☐ ☐							19				
Notes: 49° 30.56	20	☐ ☐							20				
124° 29.60	21	☐ ☐							21				
15:44	22	☐ ☐							22				
11/4/14	23	☐ ☐							23				
	24	☐ ☐							24				

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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences

Water Properties Group

Last Updated: July 2013

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Cruise Number: 2014-27	1	☐ ☐	165	2016	173	9.8	3.699	BAD E.P.	1				
Event: 75	2	☐ ☐	166	650	171	9.6	3.702		2				
Station: 38	3	☐ ☐	167	3116	169	9.5	3.721		3				
Event Date (Local): 11/4/14	4	☐ ☐	168	2047	100	9.4	3.995		4	1015	9.3	3.997	
Analysis Date (Local): 11/4/14	5	☐ ☐	169	1035	75	9.2	4.534		5				
Analyst: H.M.	6	☐ ☐	170	2060	50	9.2	5.511		6				
Stdization Date (Local): 10/4/14	7	☐ ☐	171	2000	25	9.5	6.634		7				
KIO ₃ N: 0.0098557	8	☐ ☐	172	2082	10	9.5	7.063		8				
Standard Titer: 0.703	9	☐ ☐	173	570	5	9.7	7.695		9				
Blank Titer: 0.0027	10	☐ ☐	174	2080	0	9.6	8.343		10				
THIO N: 6.14114	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)	15	☐ ☐							15				
NaI/NaOH	16	☐ ☐							16				
H ₂ SO ₄	17	☐ ☐							17				
KIO ₃	18	☐ ☐							18				
THIO	19	☐ ☐							19				
Notes: 49° 34.22	20	☐ ☐							20				
124° 34.87	21	☐ ☐							21				
16:34	22	☐ ☐							22				
11/4/14	23	☐ ☐							23				
	24	☐ ☐							24				

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Water Properties Group

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Cruise Number: 2014-27	1	☐	175	321	160	10.0	3.541		1				
Event: 76	2	☐	176	2065	158	9.8	3.544		2				
Station: 37	3	☐	177	647	156	9.7	3.554		3				
Event Date (Local): 11/4/14	4	☐	178	2020	100	9.8	4.005		4				
Analysis Date (Local): 11/4/14	5	☐	179	2043	75	9.9	4.580		5				
Analyst: H.M.	6	☐	180	3070	50	10.1	5.056		6				
Stdization Date (Local): 10/4/14	7	☐	181	1054	25	10.4	6.495		7	690	10.5	6.494	
KIO ₃ N: 0.0098557	8	☐	182	2040	10	10.9	7.994		8				
Standard Titer: 0.703	9	☐	183	620	5	11.1	9.041		9				
Blank Titer: 0.0027	10	☐	184	196	0	11.0	9.473		10				
THIO N: 0.14114	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)	15	☐							15				
NaI/NaOH	16	☐							16				
H ₂ SO ₄	17	☐							17				
KIO ₃	18	☐							18				
THIO	19	☐							19				
Notes: 49° 35.97	20	☐							20				
124° 39.24	21	☐							21				
17:17	22	☐							22				
11/4/14	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.