

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2023-088	1		1	1316	10.8	3.565		1					
Event:	4	2		2	974	11.0	3.210		2					
Station:	Haro59	3		3A	2015	11.2	3.389		3	3B	3072	11.3	3.394	
Event Date (Local):	2023-08-09	4		4	994	11.3	3.562		4					
Analysis Date (Local):	10.08.23	5		5	970	11.7	3.648		5					
Analyst:	Mej	6		6	140	11.9	3.858	BLACK SPEC FLOATER	6					
Stdization Date (Local):	09.08.23	7		7A	131	12.4	4.242		7	7B	1330	12.5	4.221	
KIO ₃ N:	0.0118315	8		8	908	12.5	4.246		8					
Standard Titer:	0.4941648	9		9	105	12.7	4.448		9					
Blank Titer:	0.0006545	10		10	932	13.0	4.577		10					
THIO N:	0.239616	11		11	173	13.1	4.687		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					
Moose.xlsx		22							22					

1	2	3A	3B	4	5	6	7A	7B	8	9	10	11
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Haro59	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59	Haro59
2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088
Bot-5 m	200 m	150 m	150 m	100 m	75 m	50 m	30 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	bot 11

plain this in the comments column.

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Cruise Number:	2023-088	1		19	1485	8.8	1.371		1					
Event:	9	2		20A	1424	10.7	3.728		2	20B	174	10.7	3.732	
Station:	P1	3		21	148	13.5	8.492		3					
Event Date (Local):	2023-08-10	4							4					
Analysis Date (Local):	11/08/23	5							5					
Analyst:	MG	6							6					
Stdization Date (Local):	09/08/23	7							7					
KIO ₃ N:	0.0118315	8							8					
Standard Titer:	0.4941648	9							9					
Blank Titer:	0.0006545	10							10					
THIO N:	0.239616	11							11					
Sample Flask Water Seal?	Yes	12							12					
	No	13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

Moose.xlsx

Bottle integrity: First test th

19
OXY
P1
2023-088
Bot-10 m
bot 1

20A
OXY
P1
2023-088
30 m
bot 2

20B
OXY
P1
2023-088
30 m
bot 2

21
OXY
P1
2023-088
5 m
bot 3

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:	2023-088	1		23	101	9.4	2.361							1						
Event:	10	2		24	964	9.4	3.005							2						
Station:	P2	3		25	458	9.5	3.370							3						
Event Date (Local):	2023-08-10	4		26	3046	9.5	3.373							4						
Analysis Date (Local):	11-08-23	5		27	133	10.1	4.229							5						
Analyst:	MG	6		28	914	12.1	4.584	OVERTITRATE WEIRD CURVE						6						
Stdization Date (Local):	09-08-23	7		29A	3134	17.9	6.368							7	29B	1300	17.9	3.381		
KIO ₃ N:	0.0118315	8		30	927	18.0	6.781	PULLED OUT A PIECE OF SEAWEED						8						
Standard Titer:	0.4941648	9												9						
Blank Titer:	0.0006545	10												10						
THIO N:	0.239616	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						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16												16						
	KIO ₃	17												17						
	THIO	18												18						
Notes:	23	24	25	26	27	28	29A	29B	30					19						
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY											
Moose.xlsx	P2	P2	P2	P2	P2	P2	P2	P2	P2											
	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088											
	Bot-10 m	100 m	75 m	75 m	50 m	25 m	10 m	10 m	5 m											
	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8											

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.

fills the integrity check and explain this in the comments column.

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Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2023-088	1		65	2089	6	0.446		1					
Event:	17	2		66	132	6	0.362		2					
Station:	P4	3		67	1337	7	0.306		3					85 OXY P4 2023-088 5 m bot 21
Event Date (Local):	2023-08-10	4		68	940	7	0.227		4					
Analysis Date (Local):	11.08.23	5		69A	620	7	0.246		5	69B	3089	7	0.243	
Analyst:	MG	6							6					
Stdization Date (Local):	09.08.23	7		71	3025	8	0.482		7					84 OXY P4 2023-088 10 m bot 20
KIO ₃ N:	0.0118315	8							8					
Standard Titer:	0.4941648	9		73	929	8	1.157		9					
Blank Titer:	0.0006545	10		74	1322	9	1.444		10					83 OXY P4 2023-088 25 m bot 19
THIO N:	0.239615	11		75	1002	9	1.649		11					
Sample Flask Water Seal?	Yes	12		76	2047	9	1.741		12					
	No	13		77A	115	9	2.178		13	77B	510	10	2.173	82 OXY P4 2023-088 50 m bot 18
Reagent Change?	MnCl ₂	14		78	995	10	2.471		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		79	135	10	2.760		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		80	2000	10	3.072		16					
	KIO ₃	17		81A	182	10	3.825		17	81B	901	11	3.876	81B OXY P4 2023-088 75 m bot 17
	THIO	18		82	161	10	6.197		18					
Notes:		19		83	3059	13	6.978		19					
		20		84	3020	18	6.367		20					81A OXY P4 2023-088 75 m bot 17
Earth.xlsx		21		85	3131	19	6.247		21					

65	66	67	68	69A	69B	71	73	74	75	76	77A	77B	78	79	80
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4
2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088
Bot-10 m	1250 m	1000 m	1000 m	800 m	800 m	600 m	400 m	300 m	250 m	200 m	175 m	175 m	150 m	125 m	100 m
bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 7	bot 9	bot 10	bot 11	bot 12	bot 13			bot 15	bot 16

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Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2023-088	1		109	1316	7.0	1.34							1					
Event:	28	2		110	974	7.2	0.619							2					
Station:	P8	3		111A	2015	7.4	0.369							3	111B	3072	7.9	0.369	
Event Date (Local):	2023-08-12	4		112	994	7.7	0.232							4					
Analysis Date (Local):	13.08.23	5		113	970	8.1	0.260							5					
Analyst:	MG	6		114	140	8.1	0.549							6					
Stdization Date (Local):	13.08.23	7		115A	131	8.8	1.34							7	115B	1330	9.0	1.342	
KIO ₃ N:	0.0148315	8		116	908	9.3	1.825							8					
Standard Titer:	0.4944484	9		117	105	9.5	1.329							9					
Blank Titer:	0.0005373	10		118	932	9.7	2.023							10					
THIO N:	0.239363	11		119	173	10.0	2.122							11					
Sample Flask Water Seal?	Yes	12		120	1485	10.1	2.551							12					
	No	13		121	1424	10.3	3.249							13					
Reagent Change?	MnCl ₂	14		122	174	10.1	5.935							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		123A	148	10.9	6.389							15	123B	101	10.9	6.386	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		124	964	11.3	6.682							16					
	KIO ₃	17		125	458	12.6	7.335							17					
	THIO	18		126	3046	14.6	6.850							18					
Notes:		19		127	133	16.1	6.358							19					
		20		128	914	17.0	6.071							20					
Moose.xlsx		21		129A	3134	18.4	5.807							21	129B	1300	18.4	5.801	
		22		130	927	19.0	5.646							22					
				131	107	19.2	5.648												

109 OXY P8 2023-088 2000 m bot 1

110 OXY P8 2023-088 1500 m bot 2

111A OXY P8 2023-088 1250 m bot 3

111B OXY P8 2023-088 1250 m bot 3

112 OXY P8 2023-088 1000 m bot 4

113 OXY P8 2023-088 800 m bot 5

114 OXY P8 2023-088 600 m bot 6

115A OXY P8 2023-088 400 m bot 7

115B OXY P8 2023-088 400 m bot 7

116 OXY P8 2023-088 300 m bot 8

117 OXY P8 2023-088 250 m bot 9

118 OXY P8 2023-088 200 m bot 10

119 OXY P8 2023-088 150 m bot 11

120 OXY P8 2023-088 125 m bot 12

121 OXY P8 2023-088 100 m bot 13

122 OXY P8 2023-088 75 m bot 14

123A OXY P8 2023-088 60 m bot 15

last 131 OXY P8 2023-088 5 m bot 23

130 OXY P8 2023-088 10 m bot 22

129B OXY P8 2023-088 15 m bot 21

129A OXY P8 2023-088 15 m bot 21

128 OXY P8 2023-088 20 m bot 20

127 OXY P8 2023-088 25 m bot 19

126 OXY P8 2023-088 30 m bot 18

125 OXY P8 2023-088 40 m bot 17

124 OXY P8 2023-088 50 m bot 16

123B OXY P8 2023-088 60 m bot 15

→ OVERTURATE LATE

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Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments		
Cruise Number:	2023-088						1			140	130	5.6	2.309		1			5.7			
Event:	33						2			141	923	5.6	2.286		2			5.7			
Station:	P12						3	X		142A	3032	5.8	1.941	A LITTLE LOOSE - LEAKING IN DRIPS	3	142B	913	6.1	1.929		
Event Date (Local):	2023-08-12						4			143	126	6.0	1.335		4					162 OXY P12 2023-088 5 m bot 23	
Analysis Date (Local):	13-08-23						5			144	1402	6.6	0.585		5						
Analyst:	MG						6			145	3096	7.1	0.388		6						
Stdization Date (Local):	13-08-23						7			146	3109	7.3	0.257		7					161 OXY P12 2023-088 10 m bot 22	
KIO ₃ N:	0.0118315						8			147A	151	7.4	0.281		8	147B	154	7.9	0.283		
Standard Titer:	0.4944484						9			148	129	7.8	0.521		9					160B OXY P12 2023-088 25 m bot 21	
Blank Titer:	0.0005373						10								10						
THIO N:	0.239363						11			150	575	8.3	1.463		11					160A OXY P12 2023-088 25 m bot 21	
Sample Flask Water Seal?	Yes						12			151	171	8.8	1.763		12					160A OXY P12 2023-088 25 m bot 21	
	No						13			152	903	9.0	2.592		13					159 OXY P12 2023-088 50 m bot 20	
Reagent Change?	MnCl ₂						14			153	20	9.4	3.313		14					158 OXY P12 2023-088 75 m bot 19	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15			154A	1192	10.0	2.955		15	154B	114	10.3	2.947	157 OXY P12 2023-088 100 m bot 18	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16			155	959	10.1	3.096		16						
	KIO ₃						17			156	109	9.8	5.102		17						
	THIO						18			157	3033	9.9	5.138	125m (not 100m) DOUBLE TRIP	18						
P12 OXY 140							19			158	152	10.5	6.724		19						
							20			159	3080	10.9	6.886		20						
							21			160A	1059	14.1	7.176		21	160B	900	14.2	7.175		
P12 OXY 141							22			161	3041	18.7	5.853		22						
	142B	143	144						146	147A	147B	148	150		151	152	153	154A	154B	155	156
	OXY	OXY	OXY						OXY	OXY	OXY	OXY	OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY
	P12	P12	P12						P12	P12	P12	P12	P12		P12	P12	P12	P12	P12	P12	P12
	2023-088	2023-088	2023-088						2023-088	2023-088	2023-088	2023-088	2023-088		2023-088	2023-088	2023-088	2023-088	2023-088	2023-088	2023-088
	2500 m	2000 m	1500 m						1000 m	800 m	800 m	600 m	400 m		300 m	250 m	200 m	175 m	175 m	150 m	125 m
	bot 2	bot 5	bot 6						bot 2	bot 2	bot 2	bot 2	bot 2		bot 15	bot 15	bot 15	bot 15	bot 15	bot 16	bot 16

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Cruise Number:	2023-088	1		400A	2089	4.6	2.963	SMALL BUBBLE	1	400B	132	4.7	2.977					
Event:	62	2		401	1337	4.4	2.840		2									422 OXY P20 2023-088 5 m bot 23
Station:	P20	3		402	940	4.5	2.460		3									421 OXY P20 2023-088 10 m bot 22
Event Date (Local):	2023-08-16	4		403	620	4.6	1.846	SMALL BUBBLE	4									420 OXY P20 2023-08 25 m bot 21
Analysis Date (Local):	17.08.23	5		404A	3089	4.9	1.182	SMALL BUBBLE	5	404B	3025	5.9	1.169					419 OXY P20 2023-088 50 m bot 20
Analyst:	MG	6		405	929	5.3	0.514		6									418 OXY P20 2023-088 75 m bot 19
Stdization Date (Local):	16.08.23	7		406	1322	3.5	0.380	OVERTITRATE LATE	7									417B OXY P20 2023-088 100 m bot 18
KIO ₃ N:	0.0118315	8		407A	1002	5.7	0.379		8	407B	2047	5.9	0.368					417A OXY P20 2023-088 100 m bot 18
Standard Titer:	0.4938194	9		408	115	6.1	0.422		9									416 OXY P20 2023-08 125 m bot 17
Blank Titer:	0.0007036	10		409	510	6.5	0.561		10									
THIO N:	0.239504	11		410	995	6.8	1.094		11									
Sample Flask Water Seal?	Yes	12		411	135	7.0	1.665		12									
Reagent Change?	MnCl ₂	13		412	2000	7.4	2.378		13									
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		413	182	7.9	3.200		14									
	H ₂ SO ₄	15		414	901	8.5	3.141		15									
	KIO ₃	16		415	161	8.5	3.862		16									
	THIO	17		416	3059	9.6	4.872		17									
		18		417A	3020	9.0	6.245		18	417B	3131	9.2	6.245					
		19		418	1015	9.3	6.719		19									
		20		419	991	10.2	7.016		20									
		21		420	987	16.2	6.276		21									
		22		421	990	17.0	6.000		22									
				422	951	17.0	5.994											

400A OXY P20 2023-088 Bot-10 m bot 1

400B OXY P20 2023-088 Bot-10 m bot 1

401 OXY P20 2023-088 3500 m bot 2

402 OXY P20 2023-088 3000 m bot 3

403 OXY P20 2023-088 2500 m bot 4

404A OXY P20 2023-088 2000 m bot 5

404B OXY P20 2023-088 2000 m

405 OXY P20 2023-088 1500 m bot 6

406 OXY P20 2023-088 1250 m bot 7

407A OXY P20 2023-088 1000 m bot 8

407B OXY P20 2023-088 1000 m bot 9

408 OXY P20 2023-088 800 m bot 10

409 OXY P20 2023-088 600 m bot 11

410 OXY P20 2023-088 400 m bot 12

411 OXY P20 2023-088 300 m bot 13

412 OXY P20 2023-088 250 m bot 14

413 OXY P20 2023-088 200 m bot 15

414 OXY P20 2023-088 175 m bot 16

415 OXY P20 2023-088 150 m bot 17

test the sp

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NOTE - Labels put in backwards

Flask ID is wrong

512

OXY

P26

2023-088

4000 m

bot 2

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
Cruise Number: 2023-088	1	9.8	511	130	3.8	3.194	918
Event: 76	2		512	923			DID NOT CLOSE 801
Station: P26	3		513A	3032	3.9	2.940	2035 NA/NAOH ON GROUND PART
Event Date (Local): 2023-08-18	4	X	514	126	4.1	2.516	VENT OPEN 900
Analysis Date (Local): 19.08.23	5		515	1402	4.2	1.918	1059
Analyst: HG	6		516	3096	4.4	1.230	3080 LARGE BUBBLE
Stdization Date (Local): 19.08.23	7		517A	3109	4.7	0.658	152
KIO ₃ N: 0.0118027	8		518	154	4.8	0.485	109
Standard Titer: 0.4929287	9		519	129	5.2	0.404	959
Blank Titer: 0.000825	10		520	575	5.6	0.429	114
THIO N: 0.239685	11		521	171	5.8	0.560	1192
Sample Flask Water Seal? Yes	12		522	903	6.0	0.885	020
No	13		523A	20	6.2	1.240	903
change? MnCl ₂	14		524	114	6.4	1.607	575
reagent inged prior and (on) H ₂ SO ₄	15		525	959	6.6	2.467	129
ATCH IN KIO ₃	16		526	109	6.6	2.956	154
THIO	17		527	3033	6.7	3.345	151
	18		528	152	6.7	4.429	3109
	19		529	3080	7.2	6.195	3096
	20		530	1059	7.9	6.999	1402
	21		531A	900	9.9	7.081	126
	22		532	2035	14.7	6.15	3032
			533	108	15.0	6.086	923
			534	918	14.9	6.085	130

Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					534 OXY P26 2023-088 5 m bot 24
2					
3	513B	943	4.1	2.934	3041 small BUBBL 533 OXY P26 2023-088 10 m bot 23
4					
5					
6					532 OXY P26 2023-088 25 m bot 22
7	517B	151	4.3	0.654	3033 531B OXY P26 2023-088 50 m bot 21
8					
9					
10					
11					
12					531A OXY P26 2023-088 50 m bot 21
13	523B	1192	6.4	1.238	171 530 OXY P26 2023-088 75 m bot 20
14					
15					
16					
17					529 OXY P26 2023-088 100 m bot 19
18					
19					
20					
21	531B	3041	1.0	7.086	913 528 OXY P26 2023-088 125 m bot 18
22					

OXY P26 2023-088 Bot-10 m bot 1
OXY P26 2023-088 3500 m bot 3
OXY P26 2023-088 3500 m bot 3
OXY P26 2023-088 3000 m bot 4
OXY P26 2023-088 2500 m bot 5

516 OXY P26 2023-088 2000 m
517A OXY P26 2023-088 1500 m
517B OXY P26 2023-088 1500 m
518 OXY P26 2023-088 1250 m
519 OXY P26 2023-088 1000 m
520 OXY P26 2023-088 800 m
521 OXY P26 2023-088 600 m
522 OXY P26 2023-088 400 m
523A OXY P26 2023-088 300 m
523B OXY P26 2023-088 300 m
524 OXY P26 2023-088 250 m
525 OXY P26 2023-088 200 m
526 OXY P26 2023-088 175 m
527 OXY P26 2023-088 150 m
bot 17