

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

00801. bot



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:	2023-008	1		3A	164	8.3	1.542		1	3B	435	8.4	1.536	
Event:	8	2		4	1338			Bot-2 didn't fire :-	2					
Station:	5684	3		5	3117	8.5	1.861		3					
Event Date (Local):	05-07-23	4		6	968	8.5	1.882		4					
Analysis Date (Local):	03-08-23	5		7	157	8.8	2.304		5					
Analyst:	MM	6							6					
Stdization Date (Local):	02-08-23	7							7					
KIO ₃ N:	0.0118027 N	8							8					
Standard Titer:	0.44313	9							9					
Blank Titer:	0.00047	10							10					
THIO N:	0.23954 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					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:	bot file not match actual #s?	19							19					
Mermaid.xlsx		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.

3A
OXY
5684
2023-008
bot-10 m
bot 1
used low
O₂ mode

4
bottle
didn't
fire

5
OXY
5684
2023-008
~~90~~
40 m
bot 3
low O₂
mode

6
OXY
5684
2023-008
~~80~~
30 m
bot 4

7
OXY
5684
2023-008
~~70~~
20 m
bot 5
" "
messy curve,
chose to OT

3B
OXY
5684
2023-008
bot-10 m
bot 1
low O₂
mode

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

12101. box



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:	2023-008	1		37	963	8.7	1.385		1					
Event:	121	2							2					
Station:	6304	3		38	1465	8.7	1.342		3					
Event Date (Local):	17-07-23	4		39	905	8.7	1.805		4					
Analysis Date (Local):	03-08-23	5		40	3180	8.7	1.377		5					
Analyst:	NM	6		41A	1326	8.9	1.650		6	41B	146	9.1	1.660	
Stdization Date (Local):	02-08-23	7		42	3108	9.5	2.363		7					
KIO ₃ N:	0.0118027	8		43	942	9.7	2.363		8					
Standard Titer:	0.49313	9		44	3127	10.2	2.898		9					
Blank Titer:	0.00077	10		45	3095	11.1	4.496		10					
THIO N:	0.23954	11		46	150	13.1	7.032		11					
Sample Flask Water Seal?	Yes	12		47	1035	15.7	7.723		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:		19							19					
		20							20					
Mermaid.xlsx		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.

37	38	39	40	41A	42	43	44	45	46	47	41B
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
6304	6304	6304	6304	6304	6304	6304	6304	6304	6304	6304	6304
2023-008	2023-008	2023-008	2023-008	2023-008	2023-008	2023-008	2023-008	2023-008	2023-008	2023-008	2023-008
bot-10 m	130 m	120 m	110 m	100 m	80 m	60 m	40 m	20 m	10 m	5 m	100 m
bot 1	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 6

low O₂ → endpoint @ ~2.42 v. OT bc unsure if something went wrong

bubble problem needed to fix twice.

2nd OT much better

needed to tap flask to dislodge stir bar bubbles
34 analyses
turned speed down by a fair.

gain behaving really weird. going to change both but STD DEV at 0.003

NORMAL

looked better

low O₂