

Last Updated: December 2019

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: December 2019

Chicken

Cruise and Analysis Information		Nisk ID	Nisk Int V	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:	2023-069	1							1						
Event:	12	2		3	2098	7.1	1.026		2					DIC Bot 2-6	
Station:	E03	3		4	3114	7.5	1.291		3					recovered 2x200ul	
Event Date (Local):	2023-07-27	4		5	904	7.9	1.650		4					instead of 1 shot	
Analysis Date (Local):	28 July 23	5		6A	973			not sampled	5	68	196				
Analyst:	Tomare	6	X	7A	1346	8.6	2.374	not fully closed vent	6	75	973	8.7	2.371		
Standardization Date (Local):	28 July 23	7		8	3005	9.3	2.775		7						
KIO ₃ N:	0.0118315	8	X	9	118	9.3	3.493	vent not fully closed	8						
Standard Titer:	0.4939795	9		10	169	9.2	5.525		9						
Blank Titer:	0.0002755	10		11	3050	7.4	6.829		10						
THIO N:	0.239498	11		12	3044	15.8	6.489		11						
Sample Flask Water Seal?	Yes	12		13	941	16.0	6.475		12						
	No	13		14	111	16.0	6.469		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		3		4	5	7A	8	9	10	11	12	13	14
		20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
		21		E03	E03	E03	E03	E03	E03	E03	E03	E03	E03	E03	E03
		22		2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069
		23		b-5 m	300 m	250 m	150 m	100 m	75 m	50 m	25 m	10 m	5 m	0 m	
		24		bot 2	bot 3	bot 4	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	

Chicken & Egg fix
new for fresh fix
fix box to box analysis
to make

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 Water Properties Group



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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:	2023-06-069	1							1					
Event:	17	2							2					
Station:	Quat 12	3		18	2089	9	1.830		3					
Event Date (Local):	2023-07-28	4		19	132	9	1.825		4					
Analysis Date (Local):	28 July 23	5		20A	1337	9	1.883		5	208	940	9.3	1.875	
Analyst:	Tamara	6		21	620	9.3	2.050		6					
Stratization Date (Local):	28 July 23	7							7					
KIO ₃ N:	0.0118315	8							8					
Standard Titer:	0.4939735	9		24	3089	11.9	4.204		9					
Blank Titer:	0.0002755	10		25	3025	15.65	1.44		10					
THIO N:	0.239498	11		26	929	15.7	6.264		11					
Sample Flask Water Seal?	Yes	12		27	1322	16.2	6.565		12					
	No	13							13					
Reagent Change?	MnCl ₂	14		28	1002				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		18	19	20A	20B	21	24	25	26	27		
		20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
		21		Quat 12	Quat 12	Quat 12	Quat 12	Quat 12	Quat 12	Quat 12	Quat 12	Quat 12		
		22		2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069		
		23		b-5 m	150 m	100 m	100 m	75 m	25 m	10 m	5 m	0 m		
		24		bot 3	bot 4	bot 5	bot 5	bot 6	bot 9	bot 10	bot 11	bot 12		

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Dissolved Oxygen Analysis Log Sheet

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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:	2023-069	1							1						
Event:	28	2							2						
Station:	CS01	3	11	49	130	4.0	1.465		3						
Event Date (Local):	2023-07-28	4	11	50	923	4.1	1.349		4						
Analysis Date (Local):	28 July 23	5	11	51	3032	4.8	0.584		5						
Analyst:	Tanner	6	11	52	913	5.2	0.253		6						
Standardization Date (Local):	28 July 23	7	11	53	126	5.6	0.281		7						
KIO ₃ N:	0.0118315	8	11	54	1402	5.9	0.913		8	310	3096.1		0.986	55B 54B :-	
Standard Titer:	0.4939735	9		55	3096				9						
Blank Titer:	0.0002755	10		56	3109				10	56B	151				
THIO N:	0.239498	11		57	154				11						
Sample Flask Water Seal?	Yes	12		58	129				12						
	No	13		59	575				13						
Reagent Change?	MnCl ₂	14		60	171				14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		61	903				15	61B	70				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		62	1192				16						
	KIO ₃	17							17						
	THIO	18		64	114				18						
Notes:		19	49	OXY	OXY	50	OXY	51	OXY	52	OXY	53	OXY	54	OXY
Snail.xlsx		20		CS01	CS01		CS01	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069
cast before bot 19		21		b-10 m	2000 m		1500 m	1000 m	500 m	500 m	500 m	500 m	500 m	500 m	500 m
computer problem		22		bot 3	bot 4		bot 5	bot 6	bot 7	bot 8	bot 8	bot 8	bot 8	bot 8	bot 8
		23													
		24													

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no re-cast

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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:	2023-069		1							1					
Event:	45		2							2					
Station:	CI01		3		88	130	7.6	1.428		3					
Event Date (Local):	2023-07-29		4		89	923				4					
Analysis Date (Local):	29 July 23		5		90	3052				5					
Analyst:	Tamara		6		91A	913	7.9	2.137		6	91B	126	7.9	2.125	
Stratization Date (Local):	28 July 23		7		92	1402	8.5	3.400		7					
KIO ₃ N:	0.0118315		8							8					
Standard Titer:	0.4939735		9		94	3096	9.0	4.409		9					
Blank Titer:	0.0002755		10		95	3109	10.4	5.142		10					
THIO N:	0.229498		11		96	151	13.3	6.790		11					
Sample Flask Water Seal?	Yes		12		97A	154	14.7	7.524		12	97B	129	14.7	7.530	
	No		13		98	575	16.0	7.443		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		101	171	9.4			16					* 40m bottle
	KIO ₃		17							17					out of sequence
	THIO		18							18					
Notes:			19		88	91A		91B		19	97A		97B	98	101
			20		OXY	OXY		OXY		20	OXY		OXY	OXY	OXY
			21		CI01	CI01		CI01		21	CI01		CI01	CI01	CI01
			22		2023-069	2023-069		2023-069		22	2023-069		2023-069	2023-069	2023-069
			23		b-5 m	100 m		100 m		23	5 m		5 m	0 m	40 m
			24		bot 3	bot 6		bot 6		24	bot 11		bot 12	bot 13	bot 16

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Cruise Number:	2023-069		1							1							
Event:	36		2							2							
Station:	CI04		3		72	2098	7.6	1.268		3							
Event Date (Local):	2023-07-29		4		73	3114	7.9	1.489		4							
Analysis Date (Local):	29 July 23		5		74	904	8.4	1.946		5							
Analyst:	Tamara		6		75A	973	8.4	2.316		6	75B	196	8.5	2.313	☺		
Stratization Date (Local):	28 July 23		7		76	1346	9.1	3.867		7							
KIO ₃ N:	0.0118315		8							8							
Standard Titer:	0.4939735		9		78	3005	10.2	4.211		9							
Blank Titer:	0.0002755		10		79	118	12.1	5.698		10							
THIO N:	0.239498		11		80	169	15.2	6.552		11							
Sample Flask Water Seal?	Yes		12		81	3050	15.6	6.553		12							
	No		13		82	3044	15.9	6.520		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 none		16							16							
	KIO ₃		17							17							
	THIO		18							18							
Notes:			19	72		73		74	75A	75B	76	77	78	79	80	81	82
			20	OXY		OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
			21	CI04		CI04		CI04	CI04	CI04	CI04	CI04	CI04	CI04	CI04	CI04	CI04
			22	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069
			23	b-5 m		200 m		150 m	100 m	100 m	75 m		50 m	25 m	10 m	5 m	0 m
			24	bot 3		bot 4		bot 5	bot 6	bot 6	bot 7		bot 9	bot 10	bot 11	bot 12	bot 13

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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:	2023-069	1							1					
Event:	61	2							2					
Station:	JPS1	3		152	130	8.6	2.580	needs recalculation	3					
Event Date (Local):	2023-07-30	4		153	923	8.8	2.455	should be flask 2098	4					
Analysis Date (Local):	30 July 23	5		154A	3032	9.9	3.659		5	154B	973	9.9	3.652	
Analyst:	Tamara	6		155	9926	11.3	4.737		6					
Standardization Date (Local):	28 July 23	7							7					
KIO ₃ N:	0.0118315	8		157	1402	12.8	5.618		8					
Standard Titer:	0.4939735	9		158	3096	14.1	6.603		9					
Blank Titer:	0.0002755	10		159	1109	15.0	7.176		10					
THIO N:	0.229498	11		160	151	15.5	7.289		11					
Sample Flask Water Seal?	Yes	12							12					
	No	13							13					
Reagent Change?	MnCl ₂ none	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		152	153	154A	154B	155	156	157	158	159	160	
		20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
		21		JPS1	JPS1	JPS1	JPS1	JPS1	JPS1	JPS1	JPS1	JPS1	JPS1	
		22		2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	
		23		b-5 m	100 m	75 m	75 m	50 m	25 m	10 m	5 m	0 m	0 m	
		24		bot 3	bot 4	bot 5	bot 5	bot 6	bot 8	bot 9	bot 10	bot 11	bot 11	

Notes: Should have been 2098

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Cruise Number:	2023-069	1	/	163	3044	8.4	2.450		1							
Event:	64	2	/	164	941	8.4	2.458		2							
Station:	JPS3	3	/	165	111	8.3	2.468		3							
Event Date (Local):	2023-07-30	4	/	166A	953	8.3	2.473		4	166B	976	8.4	2.474	☺		
Analysis Date (Local):	31 July 23	5	/	167	547	8.4	2.523	8.5	5							
Analyst:	Tamara	6	/	168	3040	8.8	2.908		6							
Stratization Date (Local):	28 July 23	7	/	169	1416	9.9	3.868		7							
KIO ₃ N:	0.0118315	8	/	170	971	10.9	4.477		8							
Standard Titer:	0.4939725	9	/	171	658	12.8	5.391		9							
Blank Titer:	0.0002755	10	/	172A	168	12.8	5.662		10	172B	943	12.9	5.663	☺☺		
THIO N:	0.239498	11	/	173	145	15.4	6.771		11							
Sample Flask Water Seal?	Yes	12	/	174	986	16.9	6.939		12							
	No	13							13							
Reagent Change?	MnCl ₂ none	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:	Chicken & Egg.xlsx	19	/	163	164	165	166A	166B	167	168	169	170	171	172A	173	
		20	/	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
		21	/	JPS3	JPS3	JPS3	JPS3	JPS3	JPS3	JPS3	JPS3	JPS3	JPS3	JPS3	JPS3	JPS3
		22	/	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069
		23	/	b-5 m	300 m	250 m	200 m	200 m	150 m	100 m	75 m	50 m	25 m	10 m	5 m	
		24	/	bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10	bot 11

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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:	2023-069	1							1					
Event:	83	2							2					
Station:	HECS1	3		205	130	7.9	1.406		3					
Event Date (Local):	2023-07-31	4		206	923	7.6	1.398		4					
Analysis Date (Local):	31 July 23	5		207A	3032	8.4	2.272		5	207B	913	8.5	2.274	☺
Analyst:	Tamara	6		208	126	9.0	3.549		6					
Stdization Date (Local):	31 July 23	7							7					
KIO ₃ N:	0.018315	8		210	1402	9.8	4.117		8					
Standard Titer:	0.4939724	9		211	3096	11.3	4.860		9					
Blank Titer:	0.0004332	10		212	3109	12.6	5.709		10					
THIO N:	0.239563	11		213	151	13.8	6.224		11					
Sample Flask Water Seal?	Yes	12		214	154	15.8	6.193		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 none	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19	205	OXY	HECS1	206	OXY	HECS1	207B	OXY	HECS1	208	OXY	HECS1
		20	OXY	HECS1	207A	OXY	HECS1	210	OXY	HECS1	211	OXY	HECS1	214
		21	HECS1	2023-069	150 m	bot 3	2023-069	50 m	bot 8	2023-069	25 m	bot 9	2023-069	0 m
		22	b-5 m	bot 3	2023-069	100 m	bot 5	75 m	bot 6	2023-069	10 m	bot 10	2023-069	5 m
		23	bot 3	bot 3	bot 5	bot 5	bot 5	bot 6	bot 8	bot 9	bot 10	bot 11	bot 12	bot 12
		24												

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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:	2023-069	1							1					
Event:	85	2							2					
Station:	HECS5	3	✓	219	575	8.6	2.367		3					
Event Date (Local):	2023-07-31	4							4					
Analysis Date (Local):	31 July 23	5		221	171	10.0	4.092		5					
Analyst:	Tanaka	6		222	903	12.8	5.639		6					
Stdization Date (Local):	31 July 23	7		223	20	16.0	6.499		7		1870	16.1	6.496	☺
KIO ₃ N:	0.0118315	8		224	1192	16.4	6.410		8					
Standard Titer:	0.4939724	9		225	111	16.5	6.359		9					
Blank Titer:	0.0004332	10							10					
THIO N:	0.29563	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: 2. off. check after analysis 3. Snail.xlsx		19	219	OXY	221	OXY	222	OXY	223 A	OXY	224	OXY	225	OXY
		20	HECS5	HECS5	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	
		21	bot 3	bot 5	bot 6	bot 7	bot 8	bot 9						
		22												
		23												
		24												

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Water Properties Group



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Cruise and Analysis Information		Nisk ID	Nisk Int V	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:	2023-069	1							1					
Event:	92	2							2					
Station:	Dix1	3	✓	243	2098	7.3	2.674		3					
Event Date (Local):	2023-07-31	4	✓	244	3114	7.3	2.021		4					
Analysis Date (Local):	01 Aug 23	5	✓	245	904	7.5	2.240	vent 5 spikes not dissolved entirely	5					
Analyst:	Tamara	6	✓	246	973	7.8	2.567		6					
Standardization Date (Local):	21 July 23	7	✓	247	196	8.0	3.055		7					
KIO ₃ N:	0.0118315	8							8					
Standard Titer:	0.4939724	9	✓	249	1346	8.1	3.455		9					
Blank Titer:	0.004332	10	✓	250A	3005	8.8	3.968		10	250B	118	8.9	3.966	☺
THIO N:	0.239563	11	✓	251	169	12.2	5.863		11					
Sample Flask Water Seal?	Yes	12	✓	252	3050	14.3	6.608		12					
	No	13	✓	253	3044	15.0	6.786		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:	1st sample didn't start properly - no thio	19	243	244	245	246	247	249	250A	250B	251	252	253	
Chicken & Egg.xlsx dispersed		20	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
so extend test of samples manually + there will be a diff analysis as #1		21	Dix1	Dix1	Dix1	Dix1	Dix1	Dix1	Dix1	Dix1	Dix1	Dix1	Dix1	
		22	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	
		23								25 m				
		24	bot 3	bot 4	bot 5	bot 6	bot 7	bot 9	bot 10	bot 10	bot 11	bot 12	bot 13	

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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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:	2023-069		1	/	292	2098	7.6	2.445		1							
Event:	111		2	/	293	3114	7.7	2.469		2							
Station:	CH03		3	/	294A	904	7.7	2.488		3	294B	973	7.8	2.495			
Event Date (Local):	2023-08-01		4	/	295	196	7.7	2.535		4							
Analysis Date (Local):	02 Aug 23		5	/	296	1346	7.8	2.598		5							
Analyst:	Tamara		6	/	297A	3005	7.8	2.673		6							
Standardization Date (Local):	31 July 23		7	/	298	118	8.0	2.938		7							
KIO ₃ N:	0.0118215		8	X	299	169	8.2	3.185	vent open	8							
Standard Titer:	0.4939724		9	/	300A	3050	8.8	3.800		9	300B	3044	8.9	3.797	☺		
Blank Titer:	0.0004332		10	/	301	941	10.9	5.098		10							
THIO N:	0.239563		11	/	302	111	13.1	6.505		11							
Sample Flask Water Seal?	Yes		12	/	303	953	14.0	8.136		12							
	No		13	/	304	976	15.4	8.292		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	292	OXY	293	OXY	294A	294B	295	296	297	298	299	300A	301	302
			20		CH03	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069
			21														
			22														
			23														
Chicken & Egg.xlsx			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			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:	2023-069		1							1					
Event:	116		2							2					
Station:	PI3		3		308	130	7.6	2.534		3					
Event Date (Local):	2023-08-02		4		309	923	7.6	2.574		4					
Analysis Date (Local):	02 Aug 23		5		310A	3032	7.6	2.655		5	310B	913	7.7	2.651	
Analyst:	Tamara Z		6		311r	126	7.8	2.696	redraw 7.7c	6					
Stdization Date (Local):	31 July 23		7		312	1402	7.6	2.747		7					
KIO ₃ N:	0.0118 315		8		313	3096	7.6	2.792		8					
Standard Titer:	0.4939724		9		314	3109	7.7	3.007		9					
Blank Titer:	0.004332		10		315	151		3.184	temp not recorded - put in 7.8	10					
THIO N:	0.279563		11							11					
Sample Flask Water Seal?	Yes		12		317A	154	8.3	3.647		12	317B	129	8.4	3.634	
Reagent Change?	MnCl ₂		13		318	575	10.4	4.735		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		14		319	171	10.9	5.458		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		15		320	903	13.0	7.687		15					
	KIO ₃		16		321	20	13.7	8.604		16					
	THIO		17							17					
			18							18					
Notes:			19		308	309		310A		19	314	315		317A	318
			20		OXY	OXY		OXY		20	OXY	OXY		OXY	OXY
			21		PI3	PI3		PI3		21	PI3	PI3		PI3	PI3
			22		2023-069	2023-069		2023-069		22	2023-069	2023-069		2023-069	2023-069
			23							23					
			24		bot 3	bot 4		bot 5		24	bot 9	bot 10		bot 12	bot 13
															bot 14

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		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:	2023-069	1							1					
Event:	130	2							2					
Station:	WC1	3	✓	339	130	8.6	3747	redraw 8.6	3					
Event Date (Local):	2023-08-02	4							4					
Analysis Date (Local):	03 Aug 23	5	✓	341A	923	8.5	3.813		5	341B	3032	8.5	3.811	☺
Analyst:	Tamar	6	✓	342	913	9.2	4.155		6					
Stdization Date (Local):	31 July 23	7	✓	343	126	11.3	5.546		7					
KIO ₃ N:	0.0118315	8		344	1402	12.5	6.623	valve was opened early	8					
Standard Titer:	0.4939724	9		345	3096	14.0	9.250		9					
Blank Titer:	0.004332	10							10					
THIO N:	0.229563	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:		19		339	341A		341B		345					
		20		OXY	OXY		OXY		344					
		21		WC1	WC1		WC1		OXY					
		22		2023-069	2023-069		2023-069		2023-069					
		23												
		24		bot 3	bot 5		bot 5		bot 8					

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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:	2023-069	1							1							
Event:	144	2		375	130	8.4	3.526		2							
Station:	GC51	3		376	923	8.3	3.535		3							
Event Date (Local):	2023-08-04	4		377	3032	8.3	3.554		4							
Analysis Date (Local):	05 Aug 23	5		378A	913	8.5	3.568		5	378B	126	8.5	3.571	0.0		
Analyst:	Tanner	6		379	1402	8.4	3.596		6							
Stdization Date (Local):	04 Aug 23	7		380	3096	8.5	3.610		7							
KIO ₃ N:	0.018215	8		381	3109	8.4	3.741	Bvent not taken but	8							
Standard Titer:	0.4939661	9		382A	151	8.5	3.421	bit of a camp bottle clean	9	382B	154	8.6	3.430			
Blank Titer:	0.0003293	10		383	129	8.6	3.124	used and O-ring	10							
THIO N:	0.2953	11		384	575	8.9	3.642		11							
Sample Flask Water Seal?	Yes	12		385	171	9.6	5.344		12							
	No	13		386	903	13.7	7.979		13					387 OXY GC51 2023-069		
Reagent Change?	MnCl ₂ VDM	14		387	20	16.2	7.453		14					386 OXY GC51 2023-069		
(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	375		376		377	378A	378B	379	380	381	382A	383	384	385
		20	OXY		OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
		21	GC51		GC51		GC51	GC51	GC51	GC51	GC51	GC51	GC51	GC51	GC51	GC51
Snail.xlsx		22	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069
		23														
		24	bot 2		bot 3		bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12

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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:	2023-069	1								1						
Event:	154	2	✓	391	2098	8.3	2.612			2						
Station:	SC69	3	✓	392A	3114	8.2	2.614			3	392B	904	8.3	2.609		
Event Date (Local):	2023-08-04	4	✓	393	973	8.3	2.623			4						
Analysis Date (Local):	05 Aug 23	5	✓	394	196	8.3	2.644			5						
Analyst:	Toward	6	✓	395	1346	8.3	2.682			6						
Standardization Date (Local):	04 Aug 23	7	✓	396	3005	8.4	2.734			7						
KIO ₃ N:	0.0118315	8	✓	397	118	8.5	2.796			8						
Standard Titer:	0.4939661	9	✓	398	169	8.6	2.954			9						
Blank Titer:	0.0003793	10	✓	399A	3050	8.7	3.118			10	399B	3044	8.9	3.108		
THIO N:	0.23953	11	✓	400	941	9.0	3.505			11						
Sample Flask Water Seal?	Yes	12	✓	401	111	9.2	3.822			12						
	No	13	✓	402	953	10.3	4.755			13						
Reagent Change?	MnCl ₂	14	✓	403	976	11.8	6.036			14	402			403	404	405
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓	404	547	12.5	7.716			15	OXY	OXY		OXY	OXY	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16	✓	405	3040	14.5	8.071			16	SC69	SC69		SC69	SC69	
	KIO ₃	17								17						
	THIO	18								18						
Notes:		19		391	392A		392B	393	394	395	396	397	398	399A	399B	401
		20		OXY	OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
		21		SC69	SC69		SC69	SC69	SC69	SC69	SC69	SC69	SC69	SC69	SC69	SC69
		22		2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069	2023-069
		23														
		24		bot 2	bot 3	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10	bot 11
																bot 12

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