

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:	2022-069	1							1					
Event:	26	2							2					
Station:	Scotts3	3	✓✓	32	19	7.2	1.916		3					
Event Date (Local):	2022-07-16	4	✓✓	33	690	7.4	1.543		4					
Analysis Date (Local):	15 July 22	5	✓✓	34A	2069	7.9	2.174	stirred for ~5 minutes while I figured out	5	34B	2043	7.9	2.164	
Analyst:	TF	6	✓✓	35	3053	8.1	3.146		6					
Stdization Date (Local):	15 July 22	7	✓✓	36	3100	8.1	4.347		7					
KIO ₃ N:	0.0123493	8	✓✓	37	3209	8.9	3.746		8					
Standard Titer:	0.4937174	9							9					
Blank Titer:	0.0004905	10	✓✓	39	2007	10.1	5.203		10					
THIO N:	0.25008	11	✓✓	40A	3023	11.5	5.912		11	40B	946	11.5	5.905	
Sample Flask Water Seal?	(Yes) No	12	✓✓	41	3044	13.4	6.660		12					
Reagent Change?	MnCl ₂	13	✓✓	42	3083	14.5	6.804		13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH H ₂ SO ₄ KIO ₃ THIO	14	✓✓	43	3170	14.7	6.808		14					
Notes:	none	15							15					
		16		32	33	34A	34B	35	36	37	39	40A	40B	41
		17		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
		18		Scotts3	Scotts3	Scotts3	Scotts3	Scotts3	Scotts3	Scotts3	Scotts3	Scotts3	Scotts3	Scotts3
		19		2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069
		20		b-5 m	200 m	150 m	150 m	100 m	75 m	50 m	30 m	20 m	20 m	10 m
		21		bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 10	bot 11	bot 11	bot 12
		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.

data in 02601 +
(for samples
32+33)
and in 2701
(for the rest)
operator screw up

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Cruise Number: 2022-069	1							1					
Event: 30	2							2					
Station: CS01	3	✓	48	3046	4.2	1.747		3					
Event Date (Local): 2022-07-16	4	✓	49	1322	4.2	1.626		4					
Analysis Date (Local): 16 July 22	5	✓	50A	1432	4.7	0.987		5	50B	1002	5.1	0.883	0.0
Analyst: Tamara	6	✓	51	3143	5.5	0.276		6					
Stdization Date (Local): 15 July 22	7	✓	52	612	6.0	0.285		7					
KIO ₃ N: 0.01234-93	8	✓	53	2075	6.5	0.713		8					
Standard Titer: 0.4937174	9	✓	54	3059	7.1	1.599		9					
Blank Titer: 0.0004905	10	✓	55	3020	7.5	2.881		10					
THIO N: 0.250108	11	✓	56A	458	7.9	5.396		11	56B	3192	8.0	5.390	
Sample Flask Water Seal? ☒ Yes	12	✓	57	2098	8.1	6.292		12					drizzle on 11 - vent not tight
☐ No	13	✓	58	1418	8.7	7.098		13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15	✓	60	23	10.1	7.164		15					62
NOTE NEW BATCH IN LOG BOOK	16	✓	61	3008	12.2	7.063		16					OXY
☒ H ₂ SO ₄	17	✓	62	429	14.9	6.753		17					CS01
☐ KIO ₃	18	✓	63	3074	15.3	6.687		18					2022-069
☐ THIO	19	✓	64	3114	15.4			19					10 m
Notes:													5 m
													bot 17
													bot 18
													bot 19

21 - Swallow.xlsx	48	49	50A	50B	51	52	53	54	55	56A	56B	57	58	60	61
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	CS01	CS01	CS01	CS01	CS01	CS01	CS01	CS01	CS01	CS01	CS01	CS01	CS01	CS01	CS01
	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069
	b-5 m	2000 m	1500 m	1500 m	1000 m	750 m	500 m	300 m	200 m	100 m	100 m	75 m	50 m	30 m	20 m
Bottle integrity: Full	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 11	bot 12	bot 13	bot 15	bot 16

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Bottle integrity: First test the top vent (V) by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.	
MT08b	MT08b

MT08b	MT08b
2022-069	2022-069
5 m	0 m
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:	2022-069	1							1					
Event:	57	2							2					
Station:	JPS1	3		120	3114	8.3	3.043		3					
Event Date (Local):	2022-07-18	4		121A	1442	8.8	3.747		4	121B	3062	8.8	3.750	😊
Analysis Date (Local):	19 July 22	5		122	3125	9.2	4.310		5					
Analyst:	TF	6							6					
Stdization Date (Local):	18 July 22	7		124	3018	9.9	5.004		7					
KIO ₃ N:	0.0123493	8		125	3176	10.3	5.319		8					
Standard Titer:	0.4938572	9		126	631	10.6	5.564		9					
Blank Titer:	0.0004762	10		127	3050	10.9	5.836		10					
THIO N:	0.250104	11		128	3075	11.3	5.984		11					
Sample Flask Water Seal?	☒ Yes ☐ No	12		129	647	11.4	6.074		12					
Reagent Change?	MnCl ₂	13							13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		120	121A	121B	122	124	125	126	127	128	129	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
	KIO ₃	16		JPS1	JPS1	JPS1	JPS1	JPS1	JPS1	JPS1	JPS1	JPS1	JPS1	
	THIO	17		2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	
		18		b-5 m	100 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m	0 m	
		19		bot 3	bot 4	bot 4	bot 5	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	
Notes:		20												
21 - Swallow.xlsx		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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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: 2022-069							1								1																			
Event: 63							2								2																			
Station: JPS5							3	X	X	151A	2094	7.9	3.001		3	151B	3110	7.8	2.999	☺														
Event Date (Local): 2022-07-18							4	X	X	152A	1470	7.8	3.028		4	152B	3194	7.9	3.022															
Analysis Date (Local): 19 July 22							5	X	X	153	942	7.9	3.177		5																			
Analyst: Damaris							6	X	X	154	940	8.1	3.424		6																			
Stdization Date (Local): 18 July 22							7	X	X	155	3094	9.1	4.606		7																			
KIO ₃ N: 0.0123493							8	X	X	156	1408	9.8	5.202		8																			
Standard Titer: 0.4938572							9	X	X	157	3000	10.2	5.634		9					redraw														
Blank Titer: 0.0004762							10	X	X	158	1347	10.4	5.740		10					redraw														
THIO N: 0.250104							11	X	X	159	3029	10.8	6.100		11																			
Sample Flask Water Seal? ☒ Yes							12	X	X	160	3056	10.8	6.126		12																			
Reagent Change? MnCl ₂							13	X	X	161	638	6.9	6.141		13																			
(Please circle reagent that was changed prior to sampling and standardization)							14								14																			
NOTE NEW BATCH IN LOG BOOK							15			151A		151B		152A		152B		153		154		155		156		157		158		159		160		161
							16			OXY		OXY		OXY		OXY		OXY		OXY		OXY		OXY		OXY		OXY		OXY		OXY		
							17			JPS5		JPS5		JPS5		JPS5		JPS5		JPS5		JPS5		JPS5		JPS5		JPS5		JPS5		JPS5		
							18			2022-069		2022-069		2022-069		2022-069		2022-069		2022-069		2022-069		2022-069		2022-069		2022-069		2022-069		2022-069		
							19			b-5 m		b-5 m		200 m		200 m		150 m		100 m		75 m		50 m		30 m		20 m		10 m		5 m		0 m
							20			bot 3		bot 3		bot 4		bot 4		bot 5		bot 6		bot 7		bot 8		bot 9		bot 10		bot 11		bot 12		bot 13
Notes:							21								21																			
20 - Shark.xlsx							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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Cruise Number:	2022-069	1							1					
Event:	103	2							2					
Station:	Dix2	3	✓✓	262A	3046	6.6	1.785		3	262B	1322	6.6	1.788	☺
Event Date (Local):	2022-07-20	4	✓✓	263	1432	6.5	1.794		4					
Analysis Date (Local):	21 July 22	5	✓✓	264	1002	6.7	2.028		5					
Analyst:	Tamerz	6	✓✓	265	3143	6.8	2.163		6					
Stdization Date (Local):	21 July 22	7	✓✓	266	612	7.3	2.848	a bubble on 2	7					
KIO ₃ N:	0.0120957	8	✓✓	267	2075	7.7	3.480		8					
Standard Titer:	0.50495	9	✓✓	268A	3059	8.1	3.977		9	268B	3020	8.1	3.975	☺
Blank Titer:	0.00036	10							10					
THIO N:	0.23957	11	✓✓	270	458	8.9	4.564		11					
Sample Flask Water Seal?	Yes	12	✓✓	271	3192	9.5	4.877		12					
	No	13	✓✓	272	2098	11.3	6.164	bubbles	13					
Reagent Change?	MnCl ₂	14	✓✓	273	1418	12.1	6.715		14					
(Please circle reagent that was changed prior to sampling and standardization). NOTE NEW BATCH IN LOG BOOK	NaI/NaOH H ₂ SO ₄ KIO ₃ THIO	15	✓✓	274	23	12.5	6.850		15					
		16							16					
				262A	262B	263	264	265	266	267	268A	268B	270	271
				OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
				Dix2	Dix2	Dix2	Dix2	Dix2	Dix2	Dix2	Dix2	Dix2	Dix2	Dix2
				2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069
				b-5 m	b-5 m	250 m	200 m	150 m	100 m	75 m	50 m	50 m	30 m	20 m
				bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 9	bot 11	bot 12
				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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Cruise Number:	2022-069	1							1						
Event:	101	2							2						
Station:	Dix3	3		245	2094	6.6	1.635		3						
Event Date (Local):	2022-07-20	4		246A	3110	6.6	1.783		4	246B	1470	6.7	1.782	☺	
Analysis Date (Local):	21 July 22	5	X	247	3194	6.9	1.943		5					drizzle vent not tight	
Analyst:	Tamara	6		248	942	6.9	2.149		6						
Stdization Date (Local):	21 July 22	7		249	940	7.3	2.788		7						
KIO ₃ N:	0.0120957	8		250	3094	7.7	2.727		8					redraw	
Standard Titer:	0.50495	9		251	1408	8.5	3.715		9						
Blank Titer:	0.00036	10		252	3000	9.7	4.777		10						
THIO N:	0.23957	11							11						
Sample Flask Water Seal?	Yes	12		253A	1347	11.3	5.614	bubble maybe	12	253B	3029	5.614	☺☺	sample 9253	
Reagent Change?	MnCl ₂	13		254	3056	11.8	5.902		13						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		255	638	11.6	6.189		14						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		256	3070	12.2	6.839		15						
	KIO ₃	16		257	1400	13.4	7.440		16					bubblers	
	THIO														
Notes:		245	246A	246B	247	248	249	250	251	252	253A	253B	254	255	256
		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	Dix3	Dix3	Dix3	Dix3	Dix3	Dix3	Dix3	Dix3	Dix3	Dix3	Dix3	Dix3	Dix3	Dix3	Dix3
	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069
	b-5 m	300 m	300 m	250 m	200 m	150 m	100 m	75 m	50 m	30 m	30 m	20 m	10 m	5 m	
	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 12	bot 12	bot 13	bot 14	bot 15	
	257														
	OXY														
	Dix3														
	2022-069														
	0 m														
	bot 16														

Bottle integrity: First test the top 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 Number:	2022-069	1							1					
Event:	112	2							2					
Station:	Chat3	3		306	19	7.3	2.664		3					
Event Date (Local):	2022-07-21	4		307	690	7.3	2.946		4					
Analysis Date (Local):	22 July 22	5		308A	2069	7.7	3.289		5	308B	2043	7.8	3.272	
Analyst:	Tamar	6		309	3053	8.5	4.196		6					
Stdization Date (Local):	22 July 22	7							7					
KIO ₃ N:	0.0120957	8							8					
Standard Titer:	0.5048665	9		312	3100	9.5	4.841		9					
Blank Titer:	0.0004323	10		313	3209	10.9	5.217		10					
THIO N:	0.239608	11		314	2007	11.7	5.755		11					
Sample Flask Water Seal?	Yes v. small	12		315	3023	12.6	7.018		12					
	No	13		316	946	13.8	8.152		13					
Reagent Change?	MnCl ₂	14		306	307	308A	308B	309	312	313	314	315	316	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		Chat3	Chat3	Chat3	Chat3	Chat3	Chat3	Chat3	Chat3	Chat3	Chat3	
	KIO ₃	17		2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	
	THIO	18		b-5 m	100 m	75 m	75 m	50 m	30 m	20 m	10 m	5 m	0 m	
Notes:		19		bot 3	bot 4	bot 5	bot 5	bot 6	bot 9	bot 10	bot 11	bot 12	bot 13	
		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.

xk'aa t' aapgwit

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Cruise Number:	2022-069	1							1					
Event:	138	2							2					
Station:	MT05	3		419	19	6.6	1.409		3					
Event Date (Local):	2022-07-23	4		420	690	6.7	1.645		4					
Analysis Date (Local):	24 July 22	5		421	2069	7.2	2.084		5					
Analyst:	Tamara	6		422	2043	7.6	2.804		6					
Stdization Date (Local):	24 July 22	7		423	3053	8.0	3.471		7					
KIO ₃ N:	0.0120957	8		424	3100	8.7	4.335		8					
Standard Titer:	0.5049658	9							9					
Blank Titer:	0.0005771	10		426A	3209	10.1	5.186		10	426B	2007	10.1	5.185	☺
THIO N:	0.239647	11		427	3023	11.3	5.884		11					
Sample Flask Water Seal?	Yes	12		428	946	13.0	6.848		12					
	No	13		429	3044	14.7	6.577		13					
Reagent Change?	MnCl ₂	14		430	3083	15.5	6.493		14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	419		420		421		422		423		424		426A
	H ₂ SO ₄	OXY		OXY		OXY		OXY		OXY		OXY		OXY
	KIO ₃	MT05		MT05		MT05		MT05		MT05		MT05		MT05
	THIO	2022-069		2022-069		2022-069		2022-069		2022-069		2022-069		2022-069
	None	b-5 m		200 m		150 m		100 m		75 m		50 m		30 m
Notes:		bot 3		bot 4		bot 5		bot 6		bot 7		bot 8		bot 10
		21								20				
		22								21				
		23								22				
		24								23				
										24				

17 - Loch Ness.xlsx

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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:	2022-069						1								1					
Event:	144						2							2						
Station:	MT11B						3		435	3170	4.9	0.398	bubble in flask before analysis	3						
Event Date (Local):	2022 07 23						4		436	3013	5.8	0.535		4						
Analysis Date (Local):	24 July 22						5		437	3065	6.2	0.721		5						
Analyst:	Tamara						6		438	2090	7.5	0.990		6						
Stdization Date (Local):	24 July 22						7		439A	3190	6.9	1.495		7	439B	1223	6.9	1.490		
KIO ₃ N:	0.0120957						8		440	3088	7.1	1.644		8						
Standard Titer:	0.5049658						9		441	3072	7.5	2.481	1.948	9						
Blank Titer:	0.0005771						10		442	949	9.0	2.885	2.481 T?? maybe 8?	10						
THIO N:	0.239647						11		443	1416	8.3	2.885		11						
Sample Flask Water Seal?	Yes						12		444A	657	8.4	3.223		12	444B	945	8.5	3.220	☺	
	No						13		445	1472	8.9	4.072		13						
Reagent Change?	MnCl ₂						14						449	450		451				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		447	745	9.7	4.763	OXY	OXY		OXY				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16		448	1465	10.1	5.165	MT11B	MT11B		MT11B				
	KIO ₃						17		449	3047	13.6	6.536	2022-069	2022-069		2022-069				
	THIO						18		450	3025	14.0	6.560	10 m	5 m		0 m				
Notes:							19		451	3014	14.0	6.557	bot 17	bot 18		bot 19				
17 - Loch Ness.xlsx	435	436	437	438	439A	439B	440	441	442	443	444A	444B	445	447	448					
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY					
	MT11B	MT11B	MT11B	MT11B	MT11B	MT11B	MT11B	MT11B	MT11B	MT11B	MT11B	MT11B	MT11B	MT11B	MT11B					
	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069					
	b-5 m	750 m	500 m	400 m	300 m	300 m	250 m	200 m	150 m	100 m	75 m	75 m	50 m	30 m	20 m					
Bottle integrity: First	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 12	bot 13	bot 15	bot 16					

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:	2022-069	1												1						
Event:	145	2												2						
Station:	MS08B	3												3						
Event Date (Local):	2022-07-24	4	✓	✓	458	3162	4.3	1.374						4						
Analysis Date (Local):	24 July 22	5	✓	✓	459	956	4.9	0.552						5						
Analyst:	Tamara	6	✓	✓	460	3054	5.6	0.245						6						
Stdization Date (Local):	24 July 22	7	✓	✓	461	2084	6.0	0.277						7						
KIO ₃ N:	0.0120957	8	✓	✓	462A	3035	6.5	0.630						8	462B	955	6.6	0.624		
Standard Titer:	0.5049658	9	✓	✓	463	1192	6.5	1.324						9						475
Blank Titer:	0.0005771	10	✓	✓	464	3034	7.1	1.728						10						OXY
THIO N:	0.239647	11	✓	✓	465	3061	7.5	1.913						11						MS08B
Sample Flask Water Seal?	Yes	12	✓	✓	466	3049	7.4	2.952						12						2022-069
	No	13	✓	✓	467	3048	7.8	3.481						13						5 m
Reagent Change?	MnCl ₂	14	✓	✓	468A	3200	8.2	4.087						14	468B	3032	8.3	4.086	☺	bot 21
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓	✓	469	3038	8.3	5.485						15						0 m
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16																		
	KIO ₃	17	✓	✓	471	3180	9.0	6.624												
	THIO	18	✓	✓	472	3164	10.0	6.551												
Notes:		19	✓	✓	473	941	13.3	6.572												
		20	✓	✓	474	2015	15.1	6.293												
		21	✓	✓	475	3068	15.2	6.300												
		22	✓	✓	476	3090	15.2	6.248												
		23																		
		24																		

458	459	460	461	462A	462B	463	464	465
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
MS08B	MS08B	MS08B	MS08B	MS08B	MS08B	MS08B	MS08B	MS08B
2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069
b-10 m	1500 m	1000 m	750 m	500 m	500 m	400 m	300 m	250 m
bot 4	bot 5	bot 6	bot 7	bot 8	bot 8	bot 9	bot 10	bot 11
466	467	468A	468B	469	471	472	473	474
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
MS08B	MS08B	MS08B	MS08B	MS08B	MS08B	MS08B	MS08B	MS08B
2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069	2022-069
200 m	150 m	100 m	100 m	75 m	50 m	30 m	20 m	10 m
bot 12	bot 13	bot 14	bot 14	bot 15	bot 17	bot 18	bot 19	bot 20

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by o