

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2019-062	1		249	3018	9.7	2.588								1					
Event: 82	2		250	3048	9.8	2.757								2					
Station: 9	3		251	3120	9.8	2.757								3					
Event Date (Local): 04 Oct 2019	4		252	622	9.9	2.763								4					
Analysis Date (Local): 4 Oct 2019	5		253	3044	10.0	2.955								5					
Analyst: MB	6		254A	3155	10.3	3.155	→							6	254B	3111	10.3	3.156	
Stdization Date (Local): 0.0119007	7		255A	1311	10.4	3.332	→							7	255B	3099	10.6	3.339	sampled at depth first
KIO ₃ N: 0.0119007	8		256	3143	11.3	3.670								8					
Standard Titer: 0.4834	9		257	3083	11.5	3.853								9					
Blank Titer: 0.0001	10		258	3135	12.1	4.987								10					
THIO N: 0.246257	11		259	3164	12.3	5.281								11					
Sample Flask Water Seal? Yes	12		260	3121	12.4	5.570								12					
	13													13					
Reagent Change? MnCl ₂	14													14					
(Please circle reagent that was changed prior to sampling and standardization)	15													15					
	16																		
NOTE NEW BATCH IN LOG BOOK	17	249	250	251	252	253	254A	254B	255A	255B	256	257	258	259	260				
	18	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY				
	19	9	9	9	9	9	9	9	9	9	9	9	9	9	9				
	20	2019-0	2019-0	2019-0	2019-0	2019-06	2019-0	2019-06	2019-0	2019-06	2019-0	2019-0	2019-0	2019-0	2019-06				
	21	Bot	Bot	Bot	Bot	Bot 5	Bot 6	Bot 6	Bot 7	Bot 7	Bot	Bot 9	Bot 10	Bot 1	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.

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Cruise Number: 2019-062		1		261	3046	10.1	2.926		1						
Event: 85		2		262	2089	10.0	2.938		2						
Station: 6		3		263A	371	10.0	2.910	→	3	263B	2055	10.1	2.910		
Event Date (Local): 4 Oct 2019		4		264	1094	10.1	2.917		4						
Analysis Date (Local): 4 Oct 2019		5		265	396	10.2	2.938		5						
Analyst: MB		6		266	471	10.2	2.986		6						
Stdization Date (Local): 4 Oct 2017		7		267	3137	10.4	3.141		7						
KIO ₃ N: 0.0119007		8		268	3049	10.5	3.220		8						
Standard Titer: 0.4834		9		269	1055	10.8	3.353		9						
Blank Titer: 0.0001		10		270	2060	11.7	4.177		10						
THIO N: 0.246257		11		271A	2068	12.5	5.357	→	11	271B	1406	12.5	5.407		
Sample Flask Water Seal? ☒ Yes ☐ No		12		272	3059	12.9	6.067		12						
		13		273	3073	13.0	6.030		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		261	262	263A	263B	264	265	266	267	268	269	270	271A
	THIO	18		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	271B
		19		6	6	6	6	6	6	6	6	6	6	6	272
		20		2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
		21		Bot	Bot 2	Bot 3	Bot 3	Bot	Bot	Bot	Bot 7	Bot	Bot 9	Bot 10	Bot 11
		22													2019-062
		23													2019-062
		24													2019-062

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Cruise Number: 2019-062		1		274	2087	11.2	3.647		1					
Event: 89		2		275	2088	11.3	3.653		2					
Station: BS17		3		276	3020	11.3	3.732		3					
Event Date (Local): 4 Oct 2019		4		277	650	11.5	4.008		4					
Analysis Date (Local): 4 OCT 2019		5		278	2000	11.9	4.494		5					
Analyst: MB		6		279A	2069	12.5	5.132		6	279B	691	12.4	5.140	
Stdization Date (Local): 4 OCT 2019		7		280	1314	12.8	5.883		7					
KIO ₃ N: 0.0119007		8		281	425	13.0	5.970		8					
Standard Titer: 0.4834		9							9					
Blank Titer: 0.0001		10							10					
THIO N: 0.246257		11							11					
Sample Flask Water Seal? ☒ Yes ☐ No		12		274	275	276	277	278	279A	279B	280	281		
		13		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
Reagent Change? MnCl ₂		14		BS17	BS17	BS17	BS17	BS17	BS17	BS17	BS17	BS17		
(Please circle reagent that was changed prior to sampling and standardization)		15		2019-06	2019-06	2019-06	2019-06	2019-06	2019-06	2019-06	2019-06	2019-06		
NOTE NEW BATCH IN LOG BOOK		16		Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8			
		17												
		18												
		19												
		20												
		21												
		22												
		23												
		24												

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Cruise Number: 2019-062	1		282	1470	9.9	2.881								1					
Event: 91	2		283	3070	9.9	2.864								2					
Station: 3	3		284	2040	9.9	2.906								3					
Event Date (Local): 4 Oct 2019	4		285	2035	10.0	2.989								4					
Analysis Date (Local): 4 OCT 2019	5		286	1019	10.1	3.012								5					
Analyst: mps	6		287A	3075	10.3	2.998								6	287B	3200	10.3	2.990	
Stdization Date (Local): 4 OCT 2019	7		288	1015	10.4	2.994								7					
KIO ₃ N: 0.0119007	8		289	1465	10.6	2.992								8					
Standard Titer: 0.4834	9		290	438	10.4	3.039								9					
Blank Titer: 0.0001	10		291A	3008	10.3	3.190								10	291B	2075	10.3	3.186	
THIO N: 0.246257	11		292	3108	10.4	3.216								11					
Sample Flask Water Seal? Yes	12		293	2090	11.1	3.589								12					
No	13		294	1053	11.6	3.892								13					
Reagent Change? MnCl ₂	14	X	295	1054	12.5	5.369	leaky top							14					
(Please circle reagent that was changed prior to sampling and standardization)	15		296	3007	12.7	5.808								15					
NOTE NEW BATCH IN LOG BOOK	16		297	2086	12.8	5.836								16					
	17													17					
	18																		

282
OXY
3
2019-06
Bot 1

283
OXY
3
2019-062
Bot 2

284
OXY
3
2019-06
Bot 3

285
OXY
3
2019-062
Bot 4

286
OXY
3
2019-0
Bot 5

287A
OXY
3
2019-0
Bot 6

287B
OXY
3
2019-062
Bot 6

288
OXY
3
2019-062
Bot 7

289
OXY
3
2019-06
Bot 8

290
OXY
3
2019-0
Bot 9

291A
OXY
3
2019-0
Bot 9

291B
OXY
3
2019-062
Bot 10

292
OXY
3
2019-06
Bot 11

293
OXY
3
2019-062
Bot 12

294
OXY
3
2019-0
Bot 1

295
OXY
3
2019-062
Bot 14

296
OXY
3
2019-06
Bot 15

297
OXY
3
2019-062
Bot 16

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Cruise Number:	2019-062						1		317	2087	10.7	3.040		1						
Event:	98						2		318	2088	10.7	3.046		2						
Station:	VAN1						3		319	3020	10.7	3.211		3						
Event Date (Local):	OCT 5 2019						4		320	650	10.7	3.304		4						
Analysis Date (Local):	5 OCT 2019						5		321	2000	10.9	3.304		5						
Analyst:	mb						6		322	2069	11.0	3.463		6						
Stdization Date (Local):	4 OCT 2019						7		323	691	11.5	3.790		7						
KIO ₃ N:	0.0119007						8		324	1314	11.9	4.484		8						
Standard Titer:	0.4834						9		325A	425	12.2	5.294		9	325B	429	12.2	5.336	sampled first rinse delay red	
Blank Titer:	0.0001						10		326	1470	12.2	5.473	sampled from bottle 11	10						
THIO N:	0.246257						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						
							19							19						
							20							20						
							21							21						
							22							22						
							23							23						
							24							24						

317 318 319 321 322 323 324 325A 325B 326
 OXY OXY OXY OXY OXY OXY OXY OXY OXY
 VAN1 VAN1 VAN1 VAN1 VAN1 VAN1 VAN1 VAN1 VAN1
 2019-06 2019-06 2019-06 2019-06 2019-06 2019-06 2019-06 2019-06 2019-06
 Bot 1 Bot 2 Bot 3 Bot 4 Bot 5 Bot 6 Bot 7 Bot 8 Bot 9 Bot 10

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Cruise Number: 2019-062	1		328	2040	11.3	3.755		1					
Event: 102	2		329	2035	11.3	3.737		2					
Station: VAN4	3		330	1019	11.4	3.781		3					
Event Date (Local): 5/10/19	4		331	3075	11.5	3.849		4					
Analysis Date (Local): 5 Oct 2019	5		332	3200	11.6	4.054		5					
Analyst: mB	6		333	1015	11.9	4.483		6					
Stdization Date (Local): 4 Oct 2019	7		334	1465	11.9	4.597		7					
KIO ₃ N: 0.0119007	8		335A	438	11.9	4.746	→	8	335B	3008	11.9	4.739	
Standard Titer: 0.4534	9							9					
Blank Titer: 0.0001	10							10					
THIO N: 0.246257	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					
Notes:								20					
								21					
								22					
								23					
								24					

328 329 330 331 332 333 334 335A 335B
OXY OXY OXY OXY OXY OXY OXY OXY
VAN4 VAN4 VAN4 VAN4 VAN4 VAN4 VAN4 VAN4
2019-01 2019-0 2019-0 2019-06 2019-0 2019-06 2019-06 2019-062
Bot 1 Bot 2 Bot 3 Bot 4 Bot 5 Bot 6 Bot 7 Bot 8

When 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: 2019-062	1		336	2075	11.9	4.204								1					
Event: 104	2		337	3018	11.9	4.316								2					
Station: VAN 6	3		338	2090	11.9	4.320								3					
Event Date (Local): 05 OCT	4		339	1053	12.1	4.283								4					
Analysis Date (Local): 5 OCT 2019	5		340	1054	12.2	4.405								5					
Analyst: MB	6		341A	3007	12.2	4.384	→							6	341B	2086	12.2	4.378	
Stdization Date (Local): 4 OCT 2019	7		342	690		4.601								7					
KIO ₃ N: 0.0119007	8		343	569	12.7	5.860								8					
Standard Titer: 0.41834	9													9					
Blank Titer: 0.0001	10													10					
THIO N: 0.2416257	11													11					
Sample Flask Water Seal? Yes	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					
	19													19					
	20													20					
	21													21					
	22													22					
	23													23					
	24													24					

Notes:

336 337 338 339 340 341A 341B 342 343
 OXY OXY OXY OXY OXY OXY OXY OXY OXY
 VAN6 VAN6 VAN6 VAN6 VAN6 VAN6 VAN6 VAN6 VAN6
 2019-062 2019-06 2019-06 2019-06 2019-06 2019-06 2019-06 2019-06 2019-06
 Bot 1 Bot 2 Bot 3 Bot 4 Bot 5 Bot 6 Bot 7 Bot 8

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Cruise Number:	2019-062						1		344	2065	12.3	3.723		1						
Event:	105						2		345	3005	12.4	3.768		2						
Station:	1200						3		346	1409	12.3	3.804		3						
Event Date (Local):	05 OCT 2019						4		347	3074	12.3	4.062		4						
Analysis Date (Local):	5 OCT 2019						5		348A	930	12.5	4.488	⇒	5	348B	3133	12.5	4.499	no water seal	
Analyst:	MB						6		349	3103	12.7	5.423	no water seal	6						
Stdization Date (Local):	4 OCT 2019						7							7						
KIO ₃ N:	0.0119007						8							8						
Standard Titer:	0.4834						9							9						
Blank Titer:	0.0001						10							10						
THIO N:	0.246257						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	H ₂ SO ₄						16							16						
							17							17						
							18							18						
							19							19						
							20							20						
							21							21						
							22							22						
							23							23						
							24							24						

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Cruise Number: 2019-062		1		350	3158	8.7	2.971		1					
Event: 106		2		351	439	8.7	2.978	→	2	351	3199	8.8	2.975	
Station: IND 2		3		352	3117	8.8	2.935	OT	3					
Event Date (Local): 05 OCT		4		353	2007	9.0	2.888		4					
Analysis Date (Local): 5 OCT 2019		5		354	3192	10.0	2.777		5					
Analyst: MB		6		355	3094	12.5	3.314		6					
Stdization Date (Local): 4 OCT 2019		7		356	3033	13.1	3.542		7					
KIO ₃ N: 0.0119007		8		357	3065	13.1	3.559		8					
Standard Titer: 0.4834		9		358	3062	13.0	3.588	OT	9					
Blank Titer: 0.0001		10		359	3054	13.0	3.641	→	10	359	2047	13.0	3.639	
THIO N: 0.7416257		11		360	2092	13.0	4.097		11					
Sample Flask Water Seal? Yes		12		361	3032	13.0	5.782		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												

Notes:

350	351A	351E	352	353	354	355	356	357	358	359A	359B	360	361
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
IND2	IND2	IND2	IND2	IND2	IND2	IND2	IND2	IND2	IND2	IND2	IND2	IND2	IND2
2019-06	2019-06	2019-06	2019-06	2019-06	2019-06	2019-06	2019-06	2019-06	2019-06	2019-06	2019-06	2019-06	2019-06
Bot 1	Bot 2	Bot 2	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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Cruise Number:	2019-062						1		362	3116	8.7	3.185		1						
Event:	108						2		363A	3009	8.6	3.189	→	2	363B	2043	8.7	3.188		
Station:	IND 4						3		364	2032	8.6	3.184		3						
Event Date (Local):	05 OCT						4		365A	2016	8.7	3.158	→	4	365B	2015	8.7	3.155		
Analysis Date (Local):	5 OCT 2019						5		366	2019	8.7	3.248		5						
Analyst:	mB						6		367	3109	8.9	3.213		6						
Stdization Date (Local):	4 OCT 2019						7		368	3072	9.3	3.071		7						
KIO ₃ N:	0.0119057						8		369	2027	12.7	3.372		8						
Standard Titer:	0.4834						9		370	3100	13.1	3.503		9						
Blank Titer:	0.0001						10		371	1429	13.3	3.542		10						
THIO N:	0.746257						11		372	3127 3145		3.525	13.3	11						
Sample Flask Water Seal?	Yes						12		373	3127	13.4	3.553		12						
	No						13		374	3147	13.5	4.609		13						
Reagent Change?	MnCl ₂						14		375	1378	13.4	5.914	USED FLASK # 3147, 1378 not found.	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						

362	363A	363B	364	365A	365B	366	367	368	369	370	371	372	373	374	375
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
IND4	IND4	IND4	IND4	IND4	IND4	IND4	IND4	IND4	IND	IND4	IND4	IND4	IND4	IND4	IND4
2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0
Bot 1	Bot 2	Bot	Bot	Bot 4	Bot 4	Bot 5	Bot 6	Bot 7	Bot	Bot	Bot 1	Bot 1	Bot 12	Bot 1	Bot 14

Integrity check and explain this in the comments column.

**Institute of Ocean Sciences
Water Properties Group**



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-062						1		376A	2099	12.9	3.386	→	1	376B	2049	12.9	3.393	
Event:	109						2		377	3037	12.9	3.392		2					
Station:	IND 8						3		378	3076	12.9	3.427		3					
Event Date (Local):	5 OCT 2019						4		379	3014	13.1	3.606		4					
Analysis Date (Local):	5 OCT 2019						5		380	3081	13.5	3.945		5					
Analyst:	MB						6		381	3110	13.6	6.800		6					
Stdization Date (Local):	4 OCT 2019						7							7					
KIO ₃ N:	0.0119007						8							8					
Standard Titer:	0.48341						9							9					
Blank Titer:	0.0001						10							10					
THIO N:	0.246257						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					
							19							19					
							20							20					
							21							21					
							22							22					
							23							23					
							24							24					

376F 377 378 379 380 381

OXY OXY OXY OXY OXY OXY

IND IND8 IND8 IND8 IND8 IND8

2019-06 2019-06 2019-06 2019-06 2019-06 2019-06

Bot 1 Bot 2 Bot Bot 4 Bot Bot 6

376F 377 378 379 380 381

OXY OXY OXY OXY OXY OXY

IND IND8 IND8 IND8 IND8 IND8

2019-06 2019-06 2019-06 2019-06 2019-06 2019-06

Bot 1 Bot 2 Bot Bot 4 Bot Bot 6

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 2018

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-062	1		382	3131	10.1	3.064		1					
Event:	110	2		383	3029	10.9	3.114		2					
Station:	IND 7	3		384	2085	12.1	3.312		3					
Event Date (Local):	5 Oct 2019	4		385	1459	12.6	3.377		4					
Analysis Date (Local):	5 Oct 2019	5		386	3041	12.8	3.407		5					
Analyst:	MB	6		387	620	13.0	3.521		6					
Stdization Date (Local):	4 Oct 2019	7		388A	3018	13.4	3.760	→	7	388B	3048	13.4	3.758	
KIO ₃ N:	0.0119007	8		389	3120	13.8	7.012		8					
Standard Titer:	0.48341	9							9					
Blank Titer:	0.0001	10							10					
THIO N:	0.246257	11							11					
Sample Flask Water Seal?	Yes No	12							12					
Reagent Change?	MnCl ₂	13							13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		382	383	384	385	386	387	388A	388B	389		
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
	KIO ₃	16		IND7	IND7	IND7	IND7	IND7	IND7	IND7	IND7	IND7		
	THIO	17		2019-06	2019-06	2019-06	2019-06	2019-06	2019-06	2019-06	2019-06	2019-062		
		18		Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 7	Bot 8		
Notes:		19												
		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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2019-062		1		390	3044	11.5	3.857		1					
Event: 118		2		391	3155	11.5	3.890		2					
Station: VANS		3		392	3111	11.5	3.930		3					
Event Date (Local): 5 Oct 2019		4		393A	1311	11.7	4.237		4	393B	3099	11.7	4.244	
Analysis Date (Local): 5 Oct 2019		5		394	3143	11.9	4.572		5					
Analyst: MB		6		395	3083	12.0	4.929		6					
Stdization Date (Local): 4 Oct 2019		7							7					
KIO ₃ N: 0.0119007		8							8					
Standard Titer: 0.4834		9							9					
Blank Titer: 0.0001		10							10					
THIO N: 0.246257		11							11					
Sample Flask Water Seal? Yes		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					
		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.