

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: 2019-023	1			2017	2087	10.1	2.953							1						
Event: 2	2			2	2088	10.2	3.013							2						
Station: 42055	3			3	3020	10.7	3.337							3						
Event Date (Local): 29 AUG 2019	4			4	650	11.1	3.613							4						
Analysis Date (Local): 30 AUG 2019	5			5	2000	11.3	3.691							5						
Analyst: MB	6			6A	2069	11.4	3.723	→						6	6B	691	11.4	3.729		
Stdization Date (Local): 29 AUG 2019	7			7	1314	11.6	3.816							7						
KIO ₃ N: 0.0118243	8			8	425	12.1	4.056							8						
Standard Titer: 0.4898	9			9	429	12.4	4.243							9						
Blank Titer: 0.0011	10			10A	1470	12.5	4.331	→						10	10B	3070	12.5	4.325		
THIO N: 0.241528	11			11	2040	12.6	4.358							11						
Sample Flask Water Seal? ☒ Yes ☐ No	12													12						
	13													13						
Reagent Change? ☒ MnCl ₂ ☐ NaI/NaOH	14													14						
(Please circle reagent that was changed prior to sampling and standardization)	15													15						
	16													16						
NOTE NEW BATCH IN LOG BOOK	17													17						
	18													18						
Notes:	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.

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Cruise Number: 2019-023	1		12	1019	7.9	1.548	overtitrated. (not display until ~2.4u)	1					
Event: 4	2		13	3075	7.9	1.482		2					
Station: JFZ	3		14	3200	8.5	1.881	overtitrated (not display until ~2.4u)	3					
Event Date (Local): 30/8/19	4		15B	1015	9.5	2.777		4	15B	1465	9.5	2.769	'B' Before 'A'
Analysis Date (Local): 30 AUG 2019	5		16	438	10.1	3.327	OT (not displayed until ~2.4u)	5					
Analyst: mbs	6		17	3008	10.8	3.768		6					
Standardization Date (Local): 29 AUG 2019	7		18	2075	11.1	4.057		7					
KIO ₃ N: 0.0118243	8		19	3108	11.5	4.316		8					
Standard Titer: 0.4898	9		20	2090	11.6	4.415		9					
Blank Titer: 0.0011	10		21					10					
THIO N: 0.241528	11		22A	1053	11.7	4.515		11	22B	1054	11.7	4.514	
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					
NaI/NaOH	16							16					
H ₂ SO ₄	17							17					
NOTE NEW BATCH IN LOG BOOK	18							18					
KIO ₃	19							19					
THIO	20							20					
Notes:	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.

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Cruise Number: 2019-023	1		23	3194	10.8	3.611								1					
Event: 6	2		24	94	11.3	4.033								2					
Station: LB01	3		25	621	12.6	5.056								3					
Event Date (Local): 30/8/19	4		26	1408	14.0	5.962								4					
Analysis Date (Local): 30 AUG 2019	5													5					
Analyst: MB	6													6					
Stdization Date (Local): 29 AUG 2019	7													7					
KIO ₃ N: 0.0118243	8													8					
Standard Titer: 0.4898	9													9					
Blank Titer: 0.0011	10													10					
THIO N: 0.21528	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					
	20													20					
	21													21					
	22													22					
	23													23					
	24													24					

Notes:

Bot 1 23 Oxy LB01 2019-023 Bot 1

Bot 2 24 Oxy LB01 2019-023 Bot 2

Bot 3 25 Oxy LB01 2019-023 Bot 3

Bot 4 26 Oxy LB01 2019-023 Bot 4

ver 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 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: 2019-023	1			34	3050	9.7	2.864		1					1					
Event:	2			35	1407	11.2	3.873		2					2					
Station: LB02	3			36A	3061	11.7	4.208		3	36B	3091	11.7	4.208	3	36B	3091	11.7	4.208	
Event Date (Local): 30 AUG 2019	4			37	196	12.5	5.050		4					4					
Analysis Date (Local): 30 AUG 2019	5			38	3084	12.9	5.264		5					5					
Analyst: MB	6			39					6					6					
Stdization Date (Local): 29 AUG 2019	7								7					7					
KIO ₃ N: 0.0118243	8								8					8					
Standard Titer: 0.4898	9								9					9					
Blank Titer: 0.0011	10								10					10					
THIO N: 0.241528	11								11					11					
Sample Flask Water Seal? Yes	12								12					12					
	13								13					13					
Reagent Change? MnCl ₂	14								14					14					
(Please circle reagent that was changed prior to sampling and standardization)	15								15					15					
NOTE NEW BATCH IN LOG BOOK	16								16					16					
	17								17					17					
	18								18					18					
Notes:	19								19					19					
	20								20					20					
	21								21					21					
	22								22					22					
	23								23					23					
	24								24					24					

Bottle integrity: Fir

34

OXY

LB02

2019-023

Bot 1

35

OXY

LB02

2019-023

Bot 2

36A

OXY

LB02

2019-023

Bot 3

36B

OXY

LB02

2019-023

Bot 3

37

OXY

LB02

2019-023

Bot 4

38

OXY

LB02

2019-023

Bot 5

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 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:	2019-023						1		41	1442	8.1	1.555	OT curve start @ 2.4v	1					
Event:	9						2		42	3089	8.5	1.949		2	42	3090	8.5	1.952	
Station:	LB04						3		43	2094	8.8	2.329		3					
Event Date (Local):	30/9/19						4		44	3088	10.1	3.555		4					
Analysis Date (Local):	30 AUG 2019						5		45	3000	10.9	4.414		5					
Analyst:	MB						6		46	1422	11.5	5.096		6					
Stdization Date (Local):	29 AUG 2019						7		47	3180	12.0	5.742		7					
KIO ₃ N:	0.0118243						8		48					8					
Standard Titer:	0.4898						9							9					
Blank Titer:	0.0011						10							10					
THIO N:	0.241528						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					

Bottle integrity:

41	42A	42B	43	44	45	46	47
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LB04	LB04	LB04	LB04	LB04	LB04	LB04	LB04
2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
Bot 1	Bot 2	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7

column if either fails the integrity check and explain this in the comments column.

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Cruise Number:	2019-23	1		50	458	8.0	1.356		1					
Event:		2		51A	3106	7.9	1.356	→ OT ★	2	51B	3036	8.0	1.357	OT ★
Station:	LB06	3		52	1416	8.1	1.506	OT ★	3					
Event Date (Local):	30-08-19	4		53	8010	8.4	1.676		4					
Analysis Date (Local):	30 AUG 2019	5		54	3114	9.1	2.353	OT ★	5					
Analyst:	MB	6		55	435	9.6	2.818		6					
Stdization Date (Local):	29 AUG 2019	7		56	3047	12.3	5.073		7					
KIO ₃ N:	0.0118243	8		57	2025	14.4	6.448		8					
Standard Titer:	0.4898	9							9					
Blank Titer:	0.0011	10							10					
THIO N:	0.241528	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												

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark Bot 1 Bot 2 Bot 3 Bot 4 Bot 5 Bot 6 Bot 7 Bot 8 and explain this in the comments column.

LB08 → LB14 one flg.

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Cruise and Analysis Information							Nis k ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-023	1		58	394	7.8	0.617	curve start @ ~22V	1					2					
Event:	ZT	2		59	94	7.7	0.659		2					3	60B	1408	7.8	0.631	run @ low O ₂ → Better
Station:	LB08	3		60A	621	7.7	0.636	run @ low O ₂ → Better	3					4					
Event Date (Local):	30 AUG 2019	4							4					5					
Analysis Date (Local):	31 AUG 2019	5		62	3050	7.8	0.905		5					6					
Analyst:	MB	6		63	1407	7.9	1.215		6					7					
Stdization Date (Local):	31 AUG 2019	7		64	3161	8.5	1.772		7					8					
KIO ₃ N:	0.0118243	8		65	3091	9.6	2.920		8					9					
Standard Titer:	0.4898	9		66	196	10.5	3.711		9					10					
Blank Titer:	0.0006	10		67	3084	12.2	5.320		10					11					
THIO N:	0.241588	11		68	3086	12.5	5.526		11					12					
Sample Flask Water Seal?	Yes No	12							12					13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	MnCl ₂ NaI/NaOH H ₂ SO ₄ KIO ₃ THIO	14							14					15					
		15							15					16					
		16							16					17					
		17							17					18					
		18							18					19					
Notes:		19							19					20					
		20							20					21					
		21							21					22					
		22							22					23					
		23							23					24					
		24							24										

WHOLE
N₂ draw
SK mchelp

58
OXY
LB08

59
OXY
LB08

60B
OXY
LB08

60A
OXY
LB08

62
OXY
LB08

63
OXY
LB08

64
OXY
LB08

65
OXY
LB08

66
OXY
LB08

67
OXY
LB08

68
OXY
LB08

2019-023
Bot 1

2019-023
Bot 2

2019-023
Bot 3

2019-023
Bot 3

2019-023
Bot 5

2019-023
Bot 6

2019-023
Bot 7

2019-023
Bot 8

2019-023
Bot 9

2019-023
Bot 10

2019-023
Bot 11

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Last Updated: January 2017



Cruise and Analysis Information							Nisk ID	Nisk Int V	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:	2019-023	1		71	3089	7.8	1.675	Run @ 'Low O ₂ ' ↓						1						
Event:	28	2		72	3090	7.7	1.690							2						
Station:	21309	3		73	2094	8.0	1.508							3						
Event Date (Local):	31 AUG 2019	4		74	3088	8.3	1.570							4						
Analysis Date (Local):	31 AUG 2019	5		75	3000	9.3	2.532							5						
Analyst:	MRB	6		76	1422	10.0	3.138	Back to 'Normal'						6						
Stdization Date (Local):	31 AUG 2019	7		77A	3180	10.6	3.669							7	77B	3173	10.5	3.660		
KIO ₃ N:	0.0118243	8		78	458	11.6	4.674							8						
Standard Titer:	0.4898	9		79	3106	12.7	5.679							9						
Blank Titer:	0.0006	10												10						
THIO N:	0.24588	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:	drawn by N2 pickled by SK	19												19						
		20												20						
		21			71	72	73	74	75	76	77A	77B	78	79						
		22			OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY						
		23			LB09	LB09	LB09	LB09	LB09	LB09	LB09	LB09	LB09	LB09						
		24			2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023						
					Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 7	Bot 8	Bot 9						

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.

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Cruise Number: 2019-023	1		81	2087	7.7	1.828							Low O ₂ titration no acid? cleared, but bad curve? Back to normal	1					
Event: 31	2		82	2088	7.8	2.357								2					
Station: LB11	3		83	3020	8.1	2.290								3					
Event Date (Local): 31 Aug 2019	4		84	650	8.4	?								4					
Analysis Date (Local): 31 AUG 2019	5		85	2000	8.6	3.800								5					
Analyst: MB	6		86	2069	8.5	4.535							6						
Stdization Date (Local): 21 AUG 2019	7		87A	691	9.1	5.110							7	87B	1314	9.2	5.112		
KIO ₃ N: 0.0118243	8		88	425	10.2	5.948							8						
Standard Titer: 0.4898	9		89	429	13.7	5.978							9						
Blank Titer: 0.0006	10		90	1470	17.0	6.028							10						
THIO N: 0.241588	11		91	3070	17.3	5.978							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						

Notes:

81 103 OXY LB11 2019-023 Bot 1
 82 104 OXY LB11 2019-023 Bot 2
 83 105 OXY LB11 2019-023 Bot 3
 84 106 OXY LB11 2019-023 Bot 4
 86 108 OXY LB11 2019-023 Bot 6
 85 107 OXY LB11 2019-023 Bot 5
 87 109A OXY LB11 2019-023 Bot 7
 88 110 OXY LB11 2019-023 Bot 8
 87 109B OXY LB11 2019-023 Bot 7
 89 111 OXY LB11 2019-023 Bot 9
 90 112 OXY LB11 2019-023 Bot 10
 91 113 OXY LB11 2019-023 Bot 11

the comments column.

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Cruise Number:	2019-023						1		92	2040	6.9	0.968		1						
Event:	32						2		93	2035	7.0	1.205		2						
Station:	LB 12						3		94A	1019	7.4	1.844		3	94B	3075	7.4	1.842		
Event Date (Local):	31/8/19						4		95	3200	7.7	2.286	Over-titrate	4						
Analysis Date (Local):	31 AUG 2019						5		96	1015	8.1	2.208		5						
Analyst:	ms						6		97	1465	8.2	2.441		6						
Stdization Date (Local):	31 AUG 2019						7		98	438	8.5	2.752		7						
KIO ₃ N:	0.0118243						8		99	3008	8.7	3.416		8						
Standard Titer:	0.4898						9		100	2075	8.6	4.133		9						
Blank Titer:	0.0006						10		101	3108	8.9	5.055		10						
THIO N:	0.241588						11		102	2090	9.6	6.125		11						
Sample Flask Water Seal?	Yes						12		103	1053	11.0	6.601		12						
	No						13		104	1054	17.1	6.468		13						
Reagent Change?	MnCl ₂						14		105A	3007	17.6	5.884		14	105B	2086	17.7	5.875	bottle leaking	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		106	690	17.9	5.844		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						

Bottle in:

92	93	94A	94B	95	96	97	98	99	100	101	102	103	104	105A	105B	106
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12
2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12	Bot 1	Bot 14	Bot 14	Bot 15

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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: 2019-023	1		108	3158	6.1	0.340								1						
Event: 34	2		109A	439	6.1	0.263	⇒							2	109B	3199	6.3	0.261		
Station: LB 14	3		110	3117	6.6	0.280								3						
Event Date (Local): 31/0/19	4		111	2007	7.0	0.821								4						
Analysis Date (Local): 31/01/2019	5		112	3192	7.3	1.200								5						
Analyst: MB	6		113	3094	7.9	1.822								6						
Stdization Date (Local): 31/01/2019	7		114	3033	8.1	1.990								7						
KIO ₃ N: 0.0118243	8		115	3065	8.3	1.959								8						
Standard Titer: 0.4898	9		116	3062	8.7	2.732								9						
Blank Titer: 0.0006	10		117	3054	8.9	?	Forged acid how do you forget acid?							10						
THIO N: 0.241588	11		118A	2047	8.8	4.042	⇒							11	118B	2092	8.9	4.047		
Sample Flask Water Seal? ☒ Yes ☐ No	12		119	3032	8.7	4.959								12						
Reagent Change? MnCl ₂	13		120	3116	9.3	6.211								13						
(Please circle reagent that was changed prior to sampling and standardization)	14		121	3009	10.5	6.620								14						
NOTE NEW BATCH IN LOG BOOK	15		122	2043	13.9	6.893								15						
	16		123	2032	17.3	6.000								16						
	17		124	2016	18.2	5.704								17						
	18		125	2015	18.2	5.701								18						
Notes:	19		12											19						
	20													20						
	21													21						
	22													22						
	23													23						

124 OXY LB14 2019-02-2019-023 Bot 17
125 OXY LB14 2019-02-2019-023 Bot 18

108 OXY LB14 2019-02-2019-023 Bot 1
109A OXY LB14 2019-02-2019-023 Bot 2
109B OXY LB14 2019-02-2019-023 Bot 2
110 OXY LB14 2019-02-2019-023 Bot 3
111 OXY LB14 2019-02-2019-023 Bot 4
112 OXY LB14 2019-02-2019-023 Bot 5
113 OXY LB14 2019-02-2019-023 Bot 7
114 OXY LB14 2019-02-2019-023 Bot 8
115 OXY LB14 2019-02-2019-023 Bot 9
116 OXY LB14 2019-02-2019-023 Bot 10
117 OXY LB14 2019-02-2019-023 Bot 11
118A OXY LB14 2019-02-2019-023 Bot 11
118B OXY LB14 2019-02-2019-023 Bot 11
119 OXY LB14 2019-02-2019-023 Bot 12
120 OXY LB14 2019-02-2019-023 Bot 13
121 OXY LB14 2019-02-2019-023 Bot 14
122 OXY LB14 2019-02-2019-023 Bot 15
123 OXY LB14 2019-02-2019-023 Bot 16

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							OXY-1 Comments							OXY-2 Comments						
Nisk ID	Nisk Int VS	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)		Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)									
1		137	2087	5.8	0.674		1													155
2		138	2088	5.9	0.425		2													OXY
3		139	3020	6.3	0.226		3													LC11
4		140A	6050	6.7	0.334	endpoint hnt late	4	140B	2000	7.0	0.330									2019-023
5		141	2069	7.2	0.810		5													Bot 19
6		142	691	7.3	1.102		6													154A
7		143	1314	7.7	1.531		7													OXY
8		144	425	8.0	1.888		8													LC11
9		145	429	8.3	2.491		9													2019-023
10		146A	470	8.7	3.122	THIO late into sample → discard	10	146B	3070	8.9	2.870									Bot 18
11		147	2040	8.7	3.466	OT late endpoint	11													154B
12		148	2035	8.6	4.623	OT bad curve	12													OXY
13		149	109A	9.0	5.726		13													LC11
14	X	150	3075	10.0	6.395	OT late endpoint	14													2019-023
15		151	3200	11.6	6.980		15													Bot 18
16		152	1015	15.3	6.593	OT late endpoint	16													153
17		153	1465	18.2	5.705		17													OXY
18		154A	438	18.4	5.676		18	154B	3008	18.5	5.678									LC11
19		155	2075	18.5			19													2019-023
20							20													Bot 17
21							21													151
22							22													OXY
23							23													LC11

Notes:
N₂ draw

137	138	139	140A	140B	141	142	143	144	145	146A	146B	147	148	149	150	152
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11
2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
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	Bot 12	Bot 13	Bot 14	Bot 16

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:	2019-023						1		160	3194	6.9	0.557		1						
Event:	47						2		161	94	7.0	0.878		2						
Station:	LC9 A3						3		162	1408	7.3	1.253		3						
Event Date (Local):	01 SEPT 19						4		163	621	7.7	1.714		4						
Analysis Date (Local):	1 SEP 2019						5		164	---	---	---		5						
Analyst:	MB						6		165	---	---	---		6						
Stdization Date (Local):	31 AUG 2019						7		166	3050	8.0	2.097	→	7	166	1407	8.1	2.104		
KIO ₃ N:	0.0118243						8		167	3161	8.4	2.717		8						
Standard Titer:	0.4898						9		168	3091	8.6	2.884		9						
Blank Titer:	0.0006						10		169	196	8.7	3.158		10						
THIO N:	0.241334						11		170	3084	8.6	4.316		11						
Sample Flask Water Seal?	Yes						12		171	3086	8.7	5.105		12						
	No						13		172	1442	9.5	6.160		13						
Reagent Change?	MnCl ₂						14		173	3089	11.3	6.841		14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		174	---	---	---		15						
	H ₂ SO ₄						16		175	---	---	---		16						
NOTE NEW BATCH IN LOG BOOK	KIO ₃						17		176	3090	16.5	6.192	→	17	176	2094	16.5	6.188		
	THIO						18		177	3088	18.2	5.721		18						
Notes:							19		178	3000	18.4	5.666		19						
							20		179	1422	18.4	5.665		20						
							21							21						
							22							22						
							23							23						

N2 draw
SK niche

179
OXY
LC09
2019-023
Bot 20

160	161	162	163	166A	166B	167	168	169	170	171	172	173	176A	176B	177	178
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09
2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
Bot 1	Bot 2	Bot 3	Bot 4	Bot 7	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12	Bot 13	Bot 14	Bot 17	Bot 17	Bot 18	Bot 19

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: 2019-023	1		181	3180	7.8	1.712								1						
Event:	2		182	3173	7.8	2.019								2						
Station: LC08	3		183	458	8.0	2.184								3						
Event Date (Local): 01 SEPT 19	4		184	3106	8.5	2.967								4						
Analysis Date (Local): 1 SEP 2019	5		185	3036	8.9	3.107								5						
Analyst: MB	6		186	1416	9.1	3.877								6						
Stdization Date (Local): 31 AUG 2019	7		187	3010	9.3	5.736	⇒							7	187	3114	9.3	5.738		
KIO ₃ N: 0.0118243	8		188	435	12.0	6.345								8						
Standard Titer: 0.4898	9		189	3047	17.3	5.895								9						
Blank Titer: 0.0006	10		190	2025	17.4	5.893								10						
THIO N: 0.241334	11		191	212	17.5	5.900								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						
Notes:	19													19						
	20													20						
	21													21						
	22													22						

the integrity check and explain this in the comments column.

181	182	183	184	185	186	187A	187B	188	189	190	191
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LC08	LC08	LC08	LC08	LC08	LC08	LC08	LC08	LC08	LC08	LC08	LC08
2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11

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: 2019-023	1		194	456	8.7	1.807		1					
Event: 54	2		195	3093	9.2	2.366		2					
Station: LC06	3		196A	3148	10.1	2.990		3	196B	570	10.1	2.986	
Event Date (Local): 01 SEPT 2019	4		197	3138	10.6	3.439		4					
Analysis Date (Local): 1 SEP 2019	5		198	3126	11.5	4.147		5					
Analyst: MB	6		199	510	12.5	5.072		6					
Stdization Date (Local): 31 AUG 2019	7		200	612	12.8	5.299		7					
KIO ₃ N: 0.018243	8							8					
Standard Titer: 0.4898	9							9					
Blank Titer: 0.0006	10							10					
THIO N: 0.241334	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					
Notes:	19							19					
	20							20					
	21							21					
	22							22					
								23					
								24					

194
OXY
LC06
2019-023
Bot 1

195
OXY
LC06
2019-023
Bot 2

196A
OXY
LC06
2019-023
Bot 3

196B
OXY
LC06
2019-023
Bot 3

197
OXY
LC06
2019-023
Bot 4

198
OXY
LC06
2019-023
Bot 5

199
OXY
LC06
2019-023
Bot 6

200
OXY
LC06
2019-023
Bot 7

it. 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: 2019-023		1		210	575	9.0	1.640	OT	1					
Event: 58		2		211	745	9.1	1.663		2					
Station: LC04		3		212	2098	9.1	1.644	OT	3					
Event Date (Local): 1 Sept 2019		4		213	3146	9.2	1.941		4					
Analysis Date (Local): 1 Sep 2019		5		214	708	9.7	2.582		5					
Analyst: mrs		6		215	611	10.2	3.042		6					
Stdization Date (Local): 1 Sep 2019		7		216A	3165	10.9	3.761	=>	7	216B	3175	11.8	3.757	
KIO ₃ N: 0.0118243		8		217	3002	11.7	4.585		8	216				
Standard Titer: 0.4898		9		218	3190	13.1	5.755		9					
Blank Titer: 0.0006		10		219	3129	13.4	5.871	OT	10					
THIO N: 0.241334		11							11					
Sample Flask Water Seal? ☒ Yes ☐ No		12							12					
		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: BENDER		19							19					
		20							20					
		21							21					
		22							22					

Bottle	210	211	212	213	214	215	216A	216B	217	218	219
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04
	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
	Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 7	Bot 8	Bot 9	Bot 10

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							Nis k ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-023						1		221	3162	8.9	1.650		1					
Event:	60						2		222	3053	9.4	1.913		2					
Station:	LC 02						3		223A	3038	10.1	2.797	=>	3	223B	3209	10.1	2.798	
Event Date (Local):	1/9/19						4		224	3096	10.8	3.263	OT	4					
Analysis Date (Local):	1 SEP 2019						5		225	3144	11.7	4.138		5					
Analyst:	ms						6		226	3066	13.7	5.901		6					
Stdization Date (Local):	1 SEP 2019						7		227	3023	14.6	6.431		7					
KIO ₃ N:	0.0118243						8		228					8					
Standard Titer:	0.4898						9							9					
Blank Titer:	0.0006						10							10					
THIO N:	0.241334						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					

ent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Bot	221	222	223A	223B	224	225	226
	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	LC02	LC02	LC02	LC02	LC02	LC02	LC02
	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
	Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5	Bot 6

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:	2019-023	1		229	3046	9.1	1.730		1										
Event:	61	2		230	2089	9.3	1.710		2										
Station:	LC01	3		231A	371	10.1	2.573		3	231B	2055	10.2	2.575	OT					
Event Date (Local):	1/9/19	4		232	1094	11.3	2.807		4										
Analysis Date (Local):	1 Sep 2019	5		233	396	11.9	4.394		5										
Analyst:	MB	6		234	471	13.3	5.629		6										
Stdization Date (Local):	1 Sep 2019	7		235	3137	14.1	6.189		7										
KIO ₃ N:	0.0118243	8							8										
Standard Titer:	0.4898	9							9										
Blank Titer:	0.0006	10							10										
THIO N:	0.241334	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							19										
		20							20										
		21							21										
		22							22										
		23							23										
		24							24										

Bottle integrity

229	230	231A	231B	232	233	234	235
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LC01	LC01	LC01	LC01	LC01	LC01	LC01	LC01
2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7

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: 2019-023	1		237	1055	12.1	4.480		1					
Event: 62	2		238	1406	14.2	6.654		2					
Station: LD01	3		239A	2060	15.8	7.198		3	239A	2068	15.8	7.208	
Event Date (Local): 01-09-19	4		240	3059	16.1	7.159		4					
Analysis Date (Local): 18 SEP 2019	5							5					
Analyst: MB	6							6					
Stdization Date (Local): 31 AUG 2019	7							7					
KIO ₃ N: 0.0118243	8							8					
Standard Titer: 0.4898	9							9					
Blank Titer: 0.0006	10							10					
THIO N: 0.241334	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					
Notes:	19							19					
	20							20					
	21							21					
	22							22					
	23							23					
	24							24					

Bottle integrity: First t

237	238	239A	239B	240
OXY	OXY	OXY	OXY	OXY
LD01	LD01	LD01	LD01	LD01
2019-023	2019-023	2019-023	2019-023	2019-023
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4

y 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:	2019-023	1		242	505	10.9	3.592		1					
Event:	63	2		243	3057	11.6	4.282		2					
Station:	61502	3		244A	3030	13.9	6.559	→	3	244B	2065	13.9	6.569	
Event Date (Local):	01-09-19	4		245	3005	15.3	7.081		4					
Analysis Date (Local):	15 SEP 2019	5		246	1409	15.7	7.196		5					
Analyst:	MB	6							6					
Stdization Date (Local):	31 AUG 2019	7							7					
KIO ₃ N:	0.0118243	8							8					
Standard Titer:	0.4898	9							9					
Blank Titer:	0.0006	10							10					
THIO N:	0.241334	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					

Bottle integrity

242	243	244A	244B	245	246
OXY	OXY	OXY	OXY	OXY	OXY
LD02	LD02	LD02	LD02	LD02	LD02
2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5

event. 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:	2019-023	1		248A	930	9.9	2.801	→	1	248B	3133	9.9	2.793	
Event:	66	2		249	3103	10.5	4.359		2					
Station:	LD04	3		250	3080	13.8	5.698		3					
Event Date (Local):	15 SEP 2019	4		251	3101	16.5	6.205		4					
Analysis Date (Local):	15 SEP 2019	5		252	3079	16.8	6.194		5					
Analyst:	mB	6							6					
Stdization Date (Local):	31 AUG 2019	7							7					
KIO ₃ N:	0.0118243	8							8					
Standard Titer:	0.4898	9							9					
Blank Titer:	0.0006	10							10					
THIO N:	0.241334	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					

Bottle integrity: First

248A
OXY
LD04
2019-023
Bot 1

248B
OXY
LD04
2019-023
Bot 1

249
OXY
LD04
2019-023
Bot 2

250
OXY
LD04
2019-023
Bot 3

251
OXY
LD04
2019-023
Bot 4

252
OXY
LD04
2019-023
Bot 5

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: 2019-023	1		253	3194	8.2	1.206								1						
Event: 69	2		254	94	8.3	1.545								2						
Station: LD06-19	3		255	1408	8.9	3.646								3						
Event Date (Local): 1 SEP 2019	4		256	621	10.8	3.193								4						
Analysis Date (Local): 1 SEP 2019	5		257	3050	11.8	6.023								5						
Analyst: MB	6		258	1407	16.5	5.956								6						
Stdization Date (Local): 31 AUG 2019	7		259	3161	17.6	5.852								7						
KIO ₃ N: 0.0118243	8		260A	3091	17.6	5.855						OT		8	260B	196	17.6	5.850		
Standard Titer: 0.4898	9													9						
Blank Titer: 0.0006	10													10						
THIO N: 0.241334	11													11						
Sample Flask Water Seal? ☒ Yes ☐ No	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						
Notes:	19													19						
	20													20						
	21													21						
	22													22						

Bottle integrity:

253
OXY
LD06
2019-023
Bot 1

254
OXY
LD06
2019-023
Bot 2

255
OXY
LD06
2019-023
Bot 3

256
OXY
LD06
2019-023
Bot 4

257
OXY
LD06
2019-023
Bot 5

258
OXY
LD06
2019-023
Bot 6

259
OXY
LD06
2019-023
Bot 7

260A
OXY
LD06
2019-023
Bot 8

260B
OXY
LD06
2019-023
Bot 8

er 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:	2019-023	1		263	2087	6.5	0.325							1						
Event:	71	2		264	2088	6.5	0.326							2						
Station:	LD08	3		265A	3080	7.0	0.860	→						3	265B	656	7.1	0.845	X bad dupo	
Event Date (Local):	01.09.19	4		266	2000	7.3	1.245							4						
Analysis Date (Local):	02 SEPT	5		267	2069	7.7	1.838							5						
Analyst:	N2	6		268	191	7.9	2.209	pause to flush burette just prior						6						
Stdization Date (Local):	01 SEPT	7		269	1314	8.4	2.773							7						
KIO ₃ N:	0.0120842	8		270	425	8.6	3.115							8						
Standard Titer:	0.5004	9		271	429	8.7	3.473							9						
Blank Titer:	0.0005	10		272	1470	8.7	4.230							10						
THIO N:	0.241432	11		273	3070	8.7	5.168							11						
Sample Flask Water Seal?	Yes	12		274	2040	9.0	5.784							12						
	No	13		275	2035	10.4	6.288							13						
Reagent Change?	MnCl ₂	14		276	1019	15.8	6.296							14	276B	3075	15.8	6.297	✓	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		277	3200	18.2	5.688							15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		278	1015	18.4	5.651							16						
	KIO ₃	17		279	1465	18.4	5.642							17						
	THIO	18												18						
Notes:		19												19						
		20												20						
		21												21						
		22												22						

263	264	265A	265B	266	267	268	269	270	271	272	273	274	275	276A	276B	277
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08
2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12	Bot 13	Bot 14	Bot 14	Bot 15

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	
Cruise Number:	2019-023	1		280	3046	5.2	0.891							1						
Event:	76	2		281	2089	5.4	0.708							2						
Station:	LD11	3		282	371	5.7	0.401							3						
Event Date (Local):	01.09.19	4		283	2055	6.0	0.231							4						
Analysis Date (Local):	02 SEPT	5		284A	1094	6.5	0.266 →							5	284B	396	6.6	0.264 ✓		
Analyst:	N2	6		285	471	7.0	0.771							6						
Stdization Date (Local):	01 SEPT	7		286	3137	7.4	1.195							7						
KIO ₃ N:	0.0120842	8		287	3049	7.8	1.713							8						
Standard Titer:	0.5004	9		288	1055	8.1	2.001							9						
Blank Titer:	0.0005	10		289A	2060	8.6	2.300 → OT late endpoint							10	289B	2068	8.6	2.294 OK		
THIO N:	0.241432	11		290	1406	8.7	2.473							11						
Sample Flask Water Seal?	Yes	12		291	3059	8.9	3.092							12						
	No	13		292	3073	8.9	3.570							13						
Reagent Change?	MnCl ₂	14		293	505	8.8	5.666							14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		294	3057	9.5	6.844							15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		295	3030	11.1	6.640							16						
	KIO ₃	17		296	2065	15.1	6.490							17						
	THIO	18		297	3005	17.6	5.857							18						
Notes:		19		298	1409	18.2	5.741							19						
		20		299A	3074	18.3	5.738 →							20	299B	930	18.3	5.746 X bad dupes		
		21												21						
		22												22						

NESSIE

280	281	282	283	284A	284B	285	286	287	288	289A	289B	290	291	292	293	294
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11	LD11
2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 10	Bot 11	Bot 12	Bot 13	Bot 14	Bot 15

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:	2019-023	1		315	3158	6.3	0.230							1						
Event:	84	2		316	439	6.6	0.281							2						
Station:	LG06	3		317	3199	7.1	0.945	⇒						3	317	3117	7.1	0.747		
Event Date (Local):	02 SEPT	4		318	2007	7.3	1.306							4						
Analysis Date (Local):	2 SEP 2018	5		319	3192	7.8	2.164							5						
Analyst:	MB	6		320	3094	8.1	2.506							6						
Stdization Date (Local):	1 SEP 2019	7		321	3033	8.6	2.848							7						
KIO ₃ N:	0.0120842	8		322	3065	8.9	2.945							8						
Standard Titer:	0.5004	9		323	3062	8.9	3.295							9						
Blank Titer:	0.0005	10		324	3054	8.9	3.860							10						
THIO N:	0.241432	11		325	2047	8.9	4.923							11						
Sample Flask Water Seal?	Yes	12		326	2092	9.3	6.030							12						
	No	13		327	3032	10.7	6.313							13						
Reagent Change?	MnCl ₂	14		328A	3116	13.4	6.847	⇒						14	328	3009	13.3	6.847		
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		329	2043	16.7	6.284							15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		330	2032	18.5	5.705							16						
	KIO ₃	17		331	2016	18.8	5.648							17						
	THIO	18												18						
Notes:		19												19						
		20												20						
		21												21						
		22												22						
		23												23						

315	316	317A	317B	318	319	320	321	322	323	324	325	326	327	328A	328B	329	330	331
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06	LG06
2019-02	2019-023	2019-023	2019-023	2019-02	2019-023	2019-023	2019-023	2019-023	2019-02	2019-023	2019-023	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-023
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12	Bot 13	Bot 14	Bot 14	Bot 15	Bot 16	Bot 17

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:	2019-023						1		332	2019	8.7	2.874		1						
Event:	86						2		333	3109	8.7	2.894		2						
Station:	LG04						3		334	3072	8.7	4.250		3						
Event Date (Local):	02-09-19						4		335	2027	9.0	5.412		4						
Analysis Date (Local):	2 Sep 2019						5		336	3100	9.5	6.334		5						
Analyst:	m3						6		337A	1429	10.8	6.732	→	6	337B	3145	10.7	6.732	OT	
Stdization Date (Local):	1 Sep 2019						7		338	3127	13.7	6.726		7						
KIO ₃ N:	0.0120842						8		339	3147	17.3	5.888		8						
Standard Titer:	0.5004						9		340	1378	17.8	5.871	Flask 1378 not found → Put in flask '3147'	9						
Blank Titer:	0.0005						10							10						
THIO N:	0.241432						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							19						
							20							20						
							21							21						
							22							22						
							23							23						
							24							24						

ne appropriate column if either fails the integrity check and explain this in the comments column.

332	333	334	335	336	337A	337B	338	339	340
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04
2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 6	Bot 7	Bot 8	Bot 9

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:	2019-023						1		342	2087	9.1	2.608		1						
Event:	90						2		343A	2088	9.4	2.222	→ OT	2	343B	3020	9.4	2.212		
Station:	LG02						3		344	650	9.9	2.877		3						
Event Date (Local):	02.09.19						4		345	2000	11.5	4.510		4						
Analysis Date (Local):	2SEP2019						5		346	2009	13.2	5.292		5						
Analyst:	MB						6		347	691	15.9	6.179		6						
Stdization Date (Local):	1SEP2019						7		348	1314	16.5	6.206		7						
KIO ₃ N:	0.0120842						8							8						
Standard Titer:	0.5004						9							9						
Blank Titer:	0.0005						10							10						
THIO N:	0.241432						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							19						
							20							20						
							21							21						
							22							22						
							23							23						
							24							24						

342	343A	343B	344	345	346	347	348
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LG02	LG02	LG02	LG02	LG02	LG02	LG02	LG02
2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
Bot 1	Bot 2	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7

ing 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:	2019-023	1		351	2087	5.9	0.260							1						
Event:	94	2		352	2088	6.3	0.776							2						
Station:	LJ06	3		353	3020	6.8	0.826							3						
Event Date (Local):	03 SEPT 2019	4		354	650	7.1	1.241							4						
Analysis Date (Local):	03 SEPT	5		355	2000	7.5	1.778							5						
Analyst:	N2	6		356	2069	7.8	2.210							6						
Stdization Date (Local):	03 Sept	7		357A	691	8.2	2.646	→						7	357B	1314	8.3	2.640	OT late endpoint	
KIO ₃ N:	0.0120842	8		358	425	8.3	2.751							8						
Standard Titer:	0.5006	9		359	429	8.4	3.335							9						
Blank Titer:	0.0005	10		360	1470	8.4	3.776							10						
THIO N:	0.241264	11		361	3070	8.7	4.291							11						
Sample Flask Water Seal?	Yes	12		362	2040	8.9	4.946	OT late endpoint						12						
	No	13		363	2035	10.0	6.039							13						
Reagent Change?	MnCl ₂	14		364	1019	12.7	6.894							14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		365A	3075	15.9	6.254	→						15	365B	3200	16.0	6.256	uncapped B before A during analysis wrong order in B, sat a while exposed ALL GOOD!	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		366	1015	17.9	5.748							16						
	KIO ₃	17		367	1465	18.0	5.743							17						
	THIO	18												18						
Notes:	draw N ₂	19												19						
	picke Site	20												20						
	SWALLOW	21												21						
		22												22						

351	352	353	354	355	356	357A	357B	358	359	360	361	362	363	364	365A	365B	366
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LJ06	LJ06	LJ06	LJ06	LJ06	LJ06	LJ06	LJ06	LJ06	LJ06	LJ06	LJ06	LJ06	LJ06	LJ06	LJ06	LJ06	LJ06
2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12	Bot 13	Bot 14	Bot 15	Bot 15	Bot 16

367
OXY
LJ06
2019-023
Bot 17

**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: 2019-023		1		369	456	5.5	1.554		1					
Event: 98		2		370	3093	5.8	0.643	→	2	370	3148	5.8	0.651	T°C = 6.0
Station: LBP07		3		371	570	6.0	0.334		3					
Event Date (Local): 3 SEP 2019		4		372	3138	6.1	0.259		4					
Analysis Date (Local): 3 SEP 2019		5		373	3126	6.6	0.310		5					
Analyst: mB		6		374	570	6.9	0.729		6					
Stdization Date (Local): 3 SEP 2019		7		375	612	7.2	1.227		7					
KIO ₃ N: 0.0120842		8		376	575	7.5	2.015		8					
Standard Titer: 0.5006		9		377	745	7.7	2.496		9					
Blank Titer: 0.0005		10		378A	2098	8.1	3.120	→	10	378B	3146	8.3	3.111	
THIO N: 0.241264		11		379	708	8.3	3.357		11					
Sample Flask Water Seal? ☒ Yes ☐ No		12		380	611	8.5	3.360		12					
Reagent Change? MnCl ₂		13		381	365	8.6	3.682		13					
(Please circle reagent that was changed prior to sampling and standardization)		14		382	3175	8.7	4.352		14					
H ₂ SO ₄		15		383	3002	9.1	5.353		15					
NOTE NEW BATCH IN LOG BOOK		16		384	3190	10.1	6.177		16					
KIO ₃		17		385	3129	13.1	6.621		17					
THIO		18	X	386A	3162	17.0	5.904	→	18	386B	3053	17.1	5.901	16.51 OPG- !! X
Notes:		19		387	3038	17.6	5.805		19					
		20		388	3209	17.6	5.809		20					
		21		389					21					
		22		390					22					
		23							23					

369	370A	370B	371	372	373	374	375	376	377	378A	378B	379	380A	381	382	383	384	385	386A	386B	387	388A
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LBP07	LBP07	LBP07	LBP07	LBP0	LBP0	LBP0	LBP0	LBP07	LBP07	LBP07	LBP0	LBP0	LBP0	LBP0	LBP0	LBP0	LBP0	LBP07	LBP07	LBP0	LBP07	
2019-02	2019-02	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-02	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-023	
Bot 1	Bot 2	Bot :	Bot 3	Bot	Bot :	Bot	Bot	Bot 9	Bot 1	Bot 1	Bot 1	Bot 1	Bot 1	Bot 1	Bot 1	Bot 1	Bot	Bot 1	Bot 1	Bot 1	Bot 20	

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: 2019-023	1		381	2087	5.7	0.459								1						
Event: L01	2		392	2088	5.6	0.432								2						
Station: LBP5	3		393	3020	6.0	0.316								3						
Event Date (Local): 03.09.19	4		394	650	6.3	0.309								4						
Analysis Date (Local): 3Sep2019	5		395	2000	7.0	0.912								5						
Analyst: MB	6		396A	2069	7.2	1.351	→							6	396B	691	7.3	1.362		
Stdization Date (Local): 3Sep2019	7		397	1317	7.7	2.113								7						
KIO ₃ N: 0.0120842	8		398	425	7.8	2.232								8						
Standard Titer: 0.5006	9		399	429	8.0	2.550								9						
Blank Titer: 0.0005	10		400	1470	8.1	2.579								10						
THIO N: 0.241264	11		401	3070	8.1	2.337								11						
Sample Flask Water Seal? ☒ Yes	12		402	2040	8.3	2.341								12						
	13		403	2035	8.5	3.055								13						
Reagent Change? ☒ MnCl ₂	14		404	1019	8.7	4.319								14						
(Please circle reagent that was changed prior to sampling and standardization)	15		405	3075	9.4	4.770								15						
NOTE NEW BATCH IN LOG BOOK	16		406A	3200	10.7	5.773	→							16	406B	1015	10.7	5.305		
	17		407	1465	12.5	5.570								17	406B	1015				
	18		408	438	15.7	5.958								18						
Notes:	19		409	3008	16.4	5.948								19						
	20													20						
	21													21						
	22													22						
	23													23						

391	392	393	394	395	396A	396B	397	398	399	400	401	402	403	404	405	406A	406B	407	408	409
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5
2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02	2019-02
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12	Bot 13	Bot 14	Bot 15	Bot 16	Bot 17	Bot 18	Bot 19	Bot 20	Bot 21

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:	2019-23	1		411	456	8.4	2.402		1					
Event:		2		412	3093	8.4	2.397		2					
Station:	LBP3	3		413	3148	8.5	2.477		3					
Event Date (Local):	03.09.19	4		414	570	8.8	3.035		4					
Analysis Date (Local):	3 Sep 2019	5		415	338	9.2	3.863		5					
Analyst:	MB	6		416	3126	9.5	4.091		6					
Stdization Date (Local):	3 Sep 2019	7		417	510	10.5	4.289		7					
KIO ₃ N:	0.0120842	8		418	418	12.3	4.885		8					
Standard Titer:	0.5006	9		419	575	16.1	5.748		9					
Blank Titer:	0.0005	10		420A	745	16.9	5.958	→	10	420B	2098	16.9	5.960	OT
THIO N:	0.241264	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							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

411	412	413	414	415	416	417	418	419	420A	420B
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3
2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-02	2019-0	2019-023
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 1	Bot 10

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:	2019-023	1		432	2087	5.4	1.462	Miss Filled Bot #1 chg to Bot #23											
Event:	121	2		433	2003	5.7	0.608												
Station:	CS00	3		434	3020	5.9	0.352												
Event Date (Local):	4/9/13	4		435	650	6.1	0.249												
Analysis Date (Local):	4 Sep 2019	5		436	2000	6.7	0.290	→											
Analyst:	MB	6		437	691	6.6	0.823												
Stdization Date (Local):	3 Sep 2019	7		438	1314	7.1	1.172												
KIO ₃ N:	0.0120842	8		439	425	7.3	1.746												
Standard Titer:	0.5006	9		440	429	7.7	2.152												
Blank Titer:	0.0005	10		441	1470	7.9	2.608												
THIO N:	0.241764	11		442	3070	8.2	2.862												
Sample Flask Water Seal?	Yes	12		443	2040	8.3	3.002												
	No	13		444	2035	8.7	3.363												
Reagent Change?	MnCl ₂	14		445	1019	8.7	3.933	←											
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		446	3075	8.9	4.477												
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		447	3200	9.8	5.496												
	KIO ₃	17		448	1015	11.8	5.937												
	THIO	18		449	1465	15.3	6.037	→											
Notes:		19		450	3008	17.5	8.598	80											
		20		451	2075	17.7	5.768												
		21																	
		22																	

432	433	434	435	436A	436B	437	438	439	440	441	442	443	444	445	446	447	448	449A	449B	450	451
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
CS00	CS00	CS00	CS0	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00
2019-023	2019-0	2019-02	2019-	2019-02	2019-02	2019-	2019-	2019-0	2019-	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-	2019-0	2019-02	2019-	2019-	2019-023
Bot 1	Bot 2	Bot 3	Bot	Bot 5	Bot 5	Bot	Bot	Bot 8	Bot	Bot 1	Bot 11	Bot 14	Bot 13	Bot	Bot 1	Bot	Bot 17	Bot 18	Bot 1	Bot	Bot 20

**Institute of Ocean Sciences
Water Properties Group**



Last Updated: July 2018

			457	458	459	460	461	462	463	464	465A	465B	466	467	468	469	470	471	472A	472E	473	
454	455	456	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
OXY	OXY	OXY	CS0:	CS0:	CS0:	CS0:	CS0:	CS0:	CS0:	CS0:	CS0:	CS0:	CS0:	CS0:	CS0:	CS0:	CS0:	CS0:	CS0:	CS0:	CS0:	imm.
CS0:	CS0:	CS0:	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	2019-0	2019-0	2019-023	
Bot	Bot	Bot 3	Bot	Bot	Bot 6	Bot	Bot	Bot 9	Bot 1	Bot 1	Bot 1	Bot 1	Bot 1	Bot 1	Bot 1	Bot 1	Bot 1	Bot 1	Bot :	Bot 1	Bot 20	

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

CORRECT

Labels printed CS024
not CS04

labels all wrong!

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:	2019-023						1	484	493	456	9.5	3.913		1						
Event:	129						2	485	494	3093	9.6	3.956		2						
Station:	CS04						3	486	495	3148	11.2	4.485		3						
Event Date (Local):	04.09.19						4	487	496A	570	12.0	4.941 → OT		4	496B	3138	12.0	4.939		
Analysis Date (Local):	5SEP2019						5	488	497	3126	12.8	5.467		5						
Analyst:	MB						6	489	498	510	15.5	5.750		6						
Stdization Date (Local):	5SEP2019						7	490	499	612	16.3	6.015		7						
KIO ₃ N:	0.0120842						8							8						
Standard Titer:	0.5011						9							9						
Blank Titer:	0.0006						10							10						
THIO N:	0.241235						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						

BENDER

CS04
not CS024

493	494	495	496A	496B	497	498	499
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
CS02	CS024	CS02	CS024	CS024	CS024	CS024	CS024
2019-0	2019-0	2019-0	2019-0	2019-02	2019-0	2019-0	2019-023
Bot	Bot	Bot	Bot 4	Bot 4	Bot	Bot 6	Bot 7

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: 2019-23	1		494	745	10.1	3.834		1					
Event: 143	2		495A	2098	10.1	3.860	→	2	495B	3146	10.2	3.858	
Station: CS06	3		496	708	11.9	4.801		3					
Event Date (Local): 05.09.19	4		497	611	14.4	5.882		4					
Analysis Date (Local): 5 SEP 2019	5		498	3165	15.3	7.095		5					
Analyst: MB	6		499	3175	15.3	7.231		6					
Stdization Date (Local): 0.0120842	7							7					
KIO ₃ N: 0.0120842	8							8					
Standard Titer: 0.5011	9							9					
Blank Titer: 0.0006	10							10					
THIO N: 0.241235	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					
	20							20					
	21							21					
	22							22					
	23							23					
	24							24					

494	495A	495B	496	497	498	499
OXY	OXY	OXY	OXY	OXY	OXY	OXY
CS06	CS06	CS06	CS06	CS06	CS06	CS06
2019-01	2019-01	2019-01	2019-01	2019-01	2019-01	2019-01
Bot	Bot	Bot 2	Bot	Bot	Bot	Bot 6

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 k ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk k ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-023	1		502A	456	7.7	1.713		1	502B	3093	7.9	1.711	
Event:	150	2		503	3148	7.7	1.769		2					
Station:	C509	3		504	570	7.8	1.865		3					
Event Date (Local):	5 SEP 2019	4		505	3138	8.2	2.346		4					
Analysis Date (Local):	5 SEP 2019	5		506	3126	8.8	2.836		5					
Analyst:	MB	6		507	510	9.7	3.253		6					
Stdization Date (Local):	5 SEP 2019	7		508	612	10.5	3.874		7					
KIO ₃ N:	0.0120842	8		509	575	11.4	4.510		8					
Standard Titer:	0.5011	9		510	745	11.7	4.734		9					
Blank Titer:	0.0006	10		511	2098	11.9	4.864		10					
THIO N:	0.241235	11		512	3146	12.0	5.159		11					
Sample Flask	Yes	12							12					
Water Seal?	No	13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent	NaI/NaOH	15							15					
that was changed prior	H ₂ SO ₄	16							16					
to sampling and	KIO ₃	17							17					
standardization)	THIO	18							18					
NOTE NEW BATCH IN		19							19					
LOG BOOK		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

: appropriate column if either fails the integrity check and explain this in the comments column.

502A	502B	503	504	505	506	507	508	509	510	511	512
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09
2019-023	019-02	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-023
Bot 1	Bot 1	Bot 2	Bot	Bot	Bot	Bot	Bot	Bot 8	Bot 9	Bot 1	Bot 11

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: 2019-023	1		532	2099	10.2	3.412	OT bad curve vol/fage > 2.8 off cal	1						1					
Event: 169	2		533	2049	10.3	3.524		2						2					
Station: JS01	3		534	3037	10.3	3.584		3						3					
Event Date (Local): 7/9/19	4		535	3076	10.4	3.607	→	4	3014	10.4	3.600			4					
Analysis Date (Local): SEP 8	5		536	3081	10.5	3.676		5						5					
Analyst: N2	6		537	3110	10.7	3.808		6						6					
Stdization Date (Local): SEPS	7		538	3078	10.8	3.920		7						7					
KIO ₃ N: 0.0120842	8		539	3131	10.9	3.988		8						8					
Standard Titer: 0.5011	9		540	3029	11.1	4.248	→ OT bad curve	9	2085	11.1	4.240			9					
Blank Titer: 0.0006	10		541	1459	11.3	4.518		10						10					
THIO N: 0.241235	11		542	622	11.4	4.793		11						11					
Sample Flask Water Seal? ☒ Yes ☐ No	12							12						12					
Reagent Change? MnCl ₂	13							13						13					
(Please circle reagent that was changed prior to sampling and standardization)	14							14						14					
NOTE NEW BATCH IN LOG BOOK	15							15						15					
	16							16						16					
	17							17						17					
	18							18						18					
Notes:	19							19						19					
	20							20						20					
	21							21						21					
	22							22						22					

O2 check

532	533	534	535A	535B	536	537	538	539	540A	540B	541	542
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
JS01	JS01	JS01	JS01	JS01	JS01	JS01	JS01	JS01	JS01	JS01	JS01	JS01
2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-02	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
Bot 1	Bot 2	Bot 3	Bot 4	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 9	Bot 10	Bot 11

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: 2019-023		1		551	2007	10.9	2.952	10.4 OT late endpoint	1					
Event: 104		2		552	2088	17.9	2.610	10.2	2					
Station: 22		3		553	3020	13.7	2.492	10.1	3					
Event Date (Local): 8/9/19		4		554	650	10.2	3.096	OT late endpoint	4	554	2000	10.2	3.081	flush burette prior to run, bubble
Analysis Date (Local): SEP 8		5		555	2069	10.7	3.339	OT bad curve low end V	5					
Analyst: N2		6		556	691	10.8	3.355		6					
Stdization Date (Local): SEP 5		7		557	1314	11.3	3.425		7					
KIO ₃ N: 0.0120842		8		558	425	11.7	3.497		8					
Standard Titer: 0.5011		9		559	429	13.7	4.807		9					
Blank Titer: 0.0006		10		560	1470	17.9	6.761		10					
THIO N: 0.241235		11		561					11					
Sample Flask Water Seal? ☒ Yes ☐ No		12		562	3070	18.9	6.196		12					
Reagent Change? MnCl ₂		13							13					
(Please circle reagent that was changed prior to sampling and standardization)		14							14					
NOTE NEW BATCH IN LOG BOOK		15							15					
		16							16					
		17							17					
		18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					

551	552	553	554A	554B	555	556	557	558	559	560	562
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
22	22	22	22	22	22	22	22	22	22	22	22
2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023	2019-023
Bot 1	Bot 2	Bot 3	Bot 4	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 12

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:	2019-023	1		577	2079	10.7	2.911			1									
Event:	195	2		578	2049	10.7	3.074			2									
Station:	Geol	3		579	3037	10.8	3.141			3									
Event Date (Local):	8 Sep 2019	4		580	3076	10.9	3.228			4									
Analysis Date (Local):	8 Sep 2019	5		581	3014	11.0	3.349	OT		5									
Analyst:	MB	6		582A	3081	10.9	3.427	=>		6	582B	3110	10.9	3.425	OT				
Stdization Date (Local):	5 Sep 2019	7		583	3078	11.1	3.452	should have OT'd, please chk.		7									
KIO ₃ N:	0.0120842	8		584	3131	11.4	3.534			8									
Standard Titer:	0.50115	9		585	3029	12.6	4.297			9									
Blank Titer:	0.0006	10		586	2085	16.3	6.152			10									
THIO N:	0.241235	11		587	1459	18.6	6.452			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									

Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

577	578	579	580	581	582A	582B	583	584	585	586	587
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
GE01	GE0	GE01	GE01	GE01	GE01	GE01	GE01	GE0	GE0	GE01	GE01

2019-01	2019-01	2019-01	2019-01	2019-01	2019-01	2019-023	2019-01	2019-01	2019-01	2019-01	2019-023
Bot 1	Bot	Bot	Bot	Bot	Bot	Bot 6	Bot 7	Bot	Bot	Bot 1	Bot 11