

Ammonium analysis

Cruise

Survey Name

2019-069

Mooring 5 + Chatham Sound

End of the
Start time/date

End time/date

0853

0853 Aug 7, 2019

1854 Aug 7, 2019

Beginning
of the end.

Standards

microliters 2° std

Conc. 4M

Raw Fluor

Raw Fluor

S0 ✓✓

S1 ✓✓

S2 ✓✓

S3 ✓✓

S4 ✓✓

S5 ✓✓

0

0

15.1

6.4

200

0.5

193.5

183.7

400

1

350.1

357.3

600

1.5

496.7

502.1

800

2

656.3

646.8

1000

2.5

813.7

755.1

stand by
= 66.1 45m
= 3.2

working reagent:

Sensitivity Factor:

midrange std:

Blank water source

A July 3, 2019

28

53 1.4M

250m

Sample Number	Station	Depth	Raw Fluorescence
333 A	CH5	2.3	28.9
333 B	CH5	2.3	25.0
265 A	HECS8	117	41.6
266 A	HECS8	75	9.2
267 B	HECS8	50	151.7
269 B	HECS8	30	255.4
270 B	HECS8	20	247.8
271 A	HECS8	10	55.8
272 A	HECS8	5	37.9
273 B	HECS8	~2.5	86.1
261 A	HECS7	~2.5	64.1
260 A	HECS7	50	27.5
259 B	HECS7	10	20.7
258 A	HECS7	20	32.6
257 B	HECS7	30	47.6
255 B	HECS7	50	38.7
254 B	HECS7	75	20.0
253 A	HECS7	117	52.5
261 B	HECS7	~2.5	1.9
260 B	HECS7	5	1.8
259 A	HECS7	10	1.8
258 B	HECS7	20	1.8
257 A	HECS7	30	1.8
255 A	HECS7	50	1.8

(No labels)
Re-run after collar problem

147.9

48.8

27.4

21.1

185.1

234.2

on Std rack

on Std rack

333	333	265 A	266 A	267 B	269 B	270 B	271 A
NH4 A	NH4 B	NH4	NH4	NH4	NH4	NH4	NH4
CH5	CH5	HECS8	HECS8	HECS8	HECS8	HECS8	HECS8
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 11	Bot 11	Bot 2	Bot 3	Bot 4	Bot 6	Bot 7	Bot 8

272 A	273 B	261 A	260 A	259 B	258 A	257 B	255 B
NH4	NH4	NH4	NH4	NH4	NH4	NH4	NH4
HECS8	HECS8	HECS7	HECS7	HECS7	HECS7	HECS7	HECS7
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 9	Bot 10	Bot 10	Bot 9	Bot 8	Bot 7	Bot 6	Bot 4

254 B	253 A	261 B	260 B	259 A	258 B	257 A	255 A
NH4	NH4	NH4	NH4	NH4	NH4	NH4	NH4
HECS7	HECS7	HECS7	HECS7	HECS7	HECS7	HECS7	HECS7
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 3	Bot 2	Bot 10	Bot 9	Bot 8	Bot 7	Bot 6	Bot 4

254 A	253 B	332	331	330 B	329 B	328 B	326 B
NH4	NH4	NH4 B	NH4 B	NH4	NH4	NH4	NH4
HECS7	HECS7	CH5	CH5	CH5	CH5	CH5	CH5
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 3	Bot 2	Bot 10	Bot 9	Bot 8	Bot 7	Bot 6	Bot 4

325 B	324 B	332	331	330 A	329 A	328 A	326 A
NH4	NH4	NH4 A	NH4 A	NH4	NH4	NH4	NH4
CH5	CH5	CH5	CH5	CH5	CH5	CH5	CH5
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 3	Bot 2	Bot 10	Bot 9	Bot 8	Bot 7	Bot 6	Bot 4

325 A	324 A	265 B	266 B	267 A	269 A	270 A	271 B
NH4	NH4	NH4	NH4	NH4	NH4	NH4	NH4
CH5	CH5	HECS8	HECS8	HECS8	HECS8	HECS8	HECS8
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 3	Bot 2	Bot 2	Bot 3	Bot 4	Bot 6	Bot 7	Bot 8

272 B	273 A
NH4	NH4
HECS8	HECS8
2019-069	2019-069
Bot 9	Bot 10

1st run was 41.6. See 1st page.

Page 2 of

date read: Aug 7, 2019 time started to read: 7:15

page 1952
Rerun - No labels.

Rerun

Sample Number	Station	Depth	Raw Fluor.	Sample Number	Station	Depth	Raw Fluor.
254A	HECS7	75	2.4	251.0	HECS7	75	2.4
253B	HECS7	117	2.7	78.1	HECS7	117	2.7
332B	CH5	5	1.8	89.8	CH5	5	1.8
331B	CH5	10	1.8	15.9	CH5	10	1.8
265A	HECS8	117	2.1	44.6	HECS8	117	2.1
330B	CH5	20	63.6		CH5	20	63.6
329B	CH5	30	25.2	271B	HECS8	10	57.7
328B	CH5	50	10.3	272B	HECS8	5	41.7
326B	CH5	75	9.1	273A	HECS8	2.5	111.4
325B	CH5	100	10.4				
324B	CH5	140	8.5				
332A	CH5	5	19.4				
331A	CH5	10	40.6				
330A	CH5	20	60.0				
329A	CH5	30	22.4				
328A	CH5	50	9.7				
326A	CH5	75	10.1				
325A	CH5	100	10.3				
324A	CH5	140	10.4				
265B	HECS8	117	34.5				
266B	HECS8	75	12.0				
267A	HECS8	50	150.7				
269A	HECS8	30	219.3				
270A	HECS8	20	234.9				

Too many
10s.
But I
checked
the collar.
It seems
OK.

Finished reading 2035 Aug 7, 2019

Batch 2 Wed

88

Ammonium analysis

Cruise

2019-069

End of

the?

Start time/date

1600 Aug 7, 2019

Survey Name

Mooring + Chatham Sound

End time/date

0150 Aug 8, 2019

Standards

microliters 2° std Conc.

Raw Fluor

Raw Fluor

S0 ✓✓

0

0

5.8

7.6

S1 ✓✓

200

0.5

93.4

98.7

S2 ✓✓

400

1

186.6

184.7

S3 ✓✓

600

1.5

496.8

497.1

S4 ✓✓

800

2

351.7

347.7

S5 ✓✓

1000

2.5

431.9

434.4

2.5?

1.5?

2?

working reagent:

Sensitivity Factor: midrange std:

Blank water source

A 3 July 19

25

S3

250m

standby = 3.2

Sample Number	Station	Depth	Raw Fluorescence
378B	CHAT3	5	32.5
377A	"	10	23.5
376B	"	20	275.8
375A	"	30	142.3
374B	"	50	6.7
372A	"	75	7.0
371A	"	100	6.2
370A	"	157	10.9
378A	"	5	28.7
377B	"	10	24 23.7
376A	"	20	238.3
375B	"	30	142.1
374A	"	50	5.9
372B	"	75	6.6
371B	"	100	6.3
370B	"	157	7.3
385A	CH11	50	5.0
386B	"	30	168.8
387A	"	20	234.1
388B	"	10	44.4
389B	"	5	28.7
391B	"	2.4	28.0
379B	CHAT3	2.4	33.4
379A	"	2.4	42.8

After S2,
started 2nd
bottle of reagent
Batch A. old
bottle marked
X on top.

378 NH4 CHAT3 2019-069 Bot 10	377 NH4 CHAT3 2019-069 Bot 9	376 NH4 CHAT3 2019-069 Bot 8	375 NH4 CHAT3 2019-069 Bot 7	374 NH4 CHAT3 2019-069 Bot 6	372 NH4 CHAT3 2019-069 Bot 4	371 NH4 CHAT3 2019-069 Bot 3	370 NH4 CHAT3 2019-069 Bot 2
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378 NH4 CHAT3 2019-069 Bot 10	377 NH4 CHAT3 2019-069 Bot 9	376 NH4 CHAT3 2019-069 Bot 8	375 NH4 CHAT3 2019-069 Bot 7	374 NH4 CHAT3 2019-069 Bot 6	372 NH4 CHAT3 2019-069 Bot 4	371 NH4 CHAT3 2019-069 Bot 3	370 NH4 CHAT3 2019-069 Bot 2
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385 NH4 CH11 2019-069 Bot 4	386 NH4 CH11 2019-069 Bot 5	387 NH4 CH11 2019-069 Bot 6	388 NH4 CH11 2019-069 Bot 7	389 NH4 CH11 2019-069 Bot 8	391 NH4 CH11 2019-069 Bot 10	379 NH4 CHAT3 2019-069 Bot 11	379 NH4 CHAT3 2019-069 Bot 11
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date read:

time started to read:

Sample Number	Station	Depth	Raw Fluor.	Sample Number	Station	Depth	Raw Fluor.
394B	CH12	135	95.2				
395A	CH12	100	25.9				
396B	"	75	7.4				
398B	"	50	10.2				
399B	"	30	306.5				
400B	"	20	321.3				
401A	"	10	45.1				
402B	"	5	20.5				
394A	"	135	97.9				
395B	"	100	22.7				
396A	"	75	6.9				
398A	"	50	7.5				
399A	"	30	307.2				
400A	"	20	316.1				
401B	"	10	43.9				
402A	"	5	8.3				
391A	CH11	2.4	14.5				
389A	"	5	26.0				
388A	"	10	38.5				
387B	"	20	232.3				
386A	"	30	168.1				
385B	"	50	5.4				
383B	"	125	17.1				
383A	"	125	14.7				

finished reading @ 0330

394 ^B	395 ^A	396 ^B	398 ^B	399 ^B	400 ^B	401 ^A	402 ^B
NH4	NH4	NH4	NH4	NH4	NH4	NH4	NH4
CH12	CH12	CH12	CH12	CH12	CH12	CH12	CH12
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 2	Bot 3	Bot 4	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10

394 ^A	395 ^B	396 ^A	398 ^A	399 ^A	400 ^A	401 ^B	402 ^A
NH4	NH4	NH4	NH4	NH4	NH4	NH4	NH4
CH12	CH12	CH12	CH12	CH12	CH12	CH12	CH12
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 2	Bot 3	Bot 4	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10

391 ^A	389 ^A	388 ^A	387 ^B	386 ^A	385 ^B	384 ^B	383 ^A
NH4	NH4	NH4	NH4	NH4	NH4	NH4	NH4
CH11	CH11	CH11	CH11	CH11	CH11	CH11	CH11
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 10	Bot 8	Bot 7	Bot 6	Bot 5	Bot 4	Bot 2	Bot 2

S0	S1	S2	S3	S4	S5
S0	S1	S2	S3	S4	S5

Ammonium analysis

Cruise

2019-069

Start time/date

1855

8 Aug 19

Survey Name

Mooring - Chatham Sound

End time/date

1233

9 Aug 19 UTC

Standards

microliters 2° std Conc.

Raw Fluor

Raw Fluor

S0	0	0	14.4 14.3	12.5	12.8
S1	200	0.5	191.7 191.7	190.6	190.1
S2	400	1	353.9 353.0	358.1	357.9
S3	600	1.5	499.5 497.9	506.0	506.8
S4	800	2	658.5 657.0	663.6	664.7
S5	1000	2.5	823.6 824.5	821.0	822.0

working reagent:

Sensitivity Factor:

midrange std:

Blank water source

B 3 July 19	28	S3	250 m
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standby (empty cell)

= 500

Sample Number	Station	Depth	Raw Fluorescence
414A	CH16		8.2 8.1
415A	CH16		10.2 9.8
416B	CH16		2.2 7.0
417	CH16		2.1 8.3
419	CH16		2.0 65.2
420A	CH16		7.0 524.5
421B	CH16		2.0 709.9
422A	CH16		645.7
415B	CH16		20.4
464A	CH19		130.8
463B	CH19		256.4
462B	CH19		483.7
460B	CH19		360.9
459B	CH19		406.8
458A	CH19		14.2
414B	CH16		8.1
439B	CHAT2		121.3
464B	CH19		123.9
463A	CH19		344.6
462A	CH19		467.6
460A	CH19		365.4
459A	CH19		369.7
458B	CH19		7.1
503A	CH21		10.3

414 ^A NH4 CH16 2019-069 Bot 2	415 ^A NH4 CH16 2019-069 Bot 3	416 ^B NH4 CH16 2019-069 Bot 4	417 ^B NH4 CH16 2019-069 Bot 5	419 ^A NH4 CH16 2019-069 Bot 7	420 ^A NH4 CH16 2019-069 Bot 8	421 ^B NH4 CH16 2019-069 Bot 9	422 ^A NH4 CH16 2019-069 Bot 10
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415 ^B NH4 CH16 2019-069 Bot 3	464 ^A NH4 CH19 2019-069 Bot 2	463 ^B NH4 CH19 2019-069 Bot 7	462 ^B NH4 CH19 2019-069 Bot 6	460 ^B NH4 CH19 2019-069 Bot 4	459 ^B NH4 CH19 2019-069 Bot 3	458 ^A NH4 CH19 2019-069 Bot 2	414 ^B NH4 CH16 2019-069 Bot 2
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439 ^B NH4 CHAT2 2019-069 Bot 13	464 ^B NH4 CH19 2019-069 Bot 8	463 ^A NH4 CH19 2019-069 Bot 7	462 ^A NH4 CH19 2019-069 Bot 6	460 ^A NH4 CH19 2019-069 Bot 4	459 ^A NH4 CH19 2019-069 Bot 3	458 ^B NH4 CH19 2019-069 Bot 2	503 ^A NH4 CH21 2019-069 Bot 2
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504 ^B NH4 CH21 2019-069 Bot 3	505 ^B NH4 CH21 2019-069 Bot 4	507 ^A NH4 CH21 2019-069 Bot 6	508 ^A NH4 CH21 2019-069 Bot 7	509 ^B NH4 CH21 2019-069 Bot 8	510 ^B NH4 CH21 2019-069 Bot 9	511 ^A NH4 CH21 2019-069 Bot 10	503 ^B NH4 CH21 2019-069 Bot 2
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504 ^A NH4 CH21 2019-069 Bot 3	505 ^A NH4 CH21 2019-069 Bot 4	507 ^B NH4 CH21 2019-069 Bot 6	508 ^B NH4 CH21 2019-069 Bot 7	509 ^A NH4 CH21 2019-069 Bot 8	510 ^A NH4 CH21 2019-069 Bot 9	511 ^B NH4 CH21 2019-069 Bot 10	513 ^A NH4 CH21 2019-069 Bot 12	513 ^B NH4 CH21 2019-069 Bot 12
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417 ^A NH4 CH16 2019-069 Bot 5	416 ^A NH4 CH16 2019-069 Bot 4	420 ^B NH4 CH16 2019-069 Bot 8	419 ^B NH4 CH16 2019-069 Bot 7	422 ^B NH4 CH16 2019-069 Bot 10	421 ^A NH4 CH16 2019-069 Bot 9	435 ^B NH4 CHAT2 2019-069 Bot 9	436 ^B NH4 CHAT2 2019-069 Bot 10	437 ^A NH4 CHAT2 2019-069 Bot 11
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437 ^A NH4 CHAT2 2019-069 Bot 11	438 ^A NH4 CHAT2 2019-069 Bot 12	438 ^B NH4 CHAT2 2019-069 Bot 12	439 ^A NH4 CHAT2 2019-069 Bot 13	428 ^A NH4 CHAT2 2019-069 Bot 2	430 ^B NH4 CHAT2 2019-069 Bot 4	429 ^A NH4 CHAT2 2019-069 Bot 3	433 ^B NH4 CHAT2 2019-069 Bot 7	431 ^B NH4 CHAT2 2019-069 Bot 5
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Page 2 of 2

date read:

time started to read:

Sample Number	Station	Depth	Raw Fluor.	Sample Number	Station	Depth	Raw Fluor.
504B	CH21		18.6	436B	CHAT2		238.3
505B	CH21		8.6	437B	CHAT2		54.5
507A	CH21		75.0	437A	CHAT2		59.2
508A	CH21		208.1	438A	CHAT2		63.6
509B	CH21		255.3	438B	CHAT2		127.1
510B	CH21		446.6	439A	CHAT2		67.1
511A	CH21		342.0	428A	CHAT2		12.5
503B	CH21		10.2	430B	CHAT2		37.7
504A	CH21		10.5	429A	CHAT2		8.8
505A	CH21		9.1	433B	CHAT2		148.2
507B	CH21		95.0	431B	CHAT2		64.7
508B	CH21		217.0	436A	CHAT2		260.5
509A	CH21		257.9	434B	CHAT2		185.0
510A	CH21		451.0	428B	CHAT2		9.3
511B	CH21		336.5	430A	CHAT2		33.9
513A	CH21		160.8	429B	CHAT2		8.7
513B	CH21		145.8	433A	CHAT2		145.2
417A	CH16		10.6	431A	CHAT2		64.8
416A	CH16		7.8	435A	CHAT2		258.7
420B	CH16		535.0	434A	CHAT2		184.7
419B	CH16		64.9				
422B	CH16		605.7				
421A	CH16		704.5				
435B	CHAT2		267.9				

A	B		A	B	A	A	A	A
436	434	428	430	429	433	431	435	434
NH4	NH4	NH4	NH4	NH4	NH4	NH4	NH4	NH4
CHAT2	CHAT2	CHAT2	CHAT2	CHAT2	CHAT2	CHAT2	CHAT2	CHAT2
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 10	Bot 8	Bot 2	Bot 4	Bot 3	Bot 7	Bot 5	Bot 9	Bot 8

Aug 9 Batch 1

88

Ammonium analysis

Cruise

Survey Name

2019-069

Mooring + Chatham Sound

End of the beginning
Start time/date

End time/date

0850 Aug 9, 2019

1810 Aug 9, 2019

Standards

microliters 2° std Conc.

Raw Fluor

Raw Fluor

S0 ✓✓

S1 ✓✓

S2 ✓✓

S3 ✓✓

S4 ✓✓

S5

0	0	6.6	5.4
200	0.5	178.0	166.7
400	1	343.1	343.4
600	1.5	502.9	501.8
800	2	657.2	650.0
1000	2.5	814.1	805.1

New bottle of
BLANK WATER

working reagent:

Sensitivity Factor:

midrange std:

Blank water source

B July 3, 2019

28

S3

250m

standby = 3.1

bottle 2

Sample Number	Station	Depth	Raw Fluorescence
903A	Skeena 4	surface	326.2
900B	Skeena 1	surface	44.2
900A	Skeena 1	surface	24.6
561A	PRHR 74		455.8
565A	PRHR 74		103.3
562A	PRHR 74		534.6
559B	PRHR 74		486.9
902A	Skeena 3	surface	253.5
901A	Skeena 2	surface	30.0
902B	Skeena 3	surface	254.7
564A	PRHR 74		121.9
561B	PRHR 74		455.9
563B	PRHR 74		381.5
564B	PRHR 74		120.3
901B	Skeena 2		16.7
904A	Skeena 5		368.6
904B	Skeena 5		354.1
559A	PRHR 74		476.2
563A	PRHR 74		381.7
562B	PRHR 74		545.1
565B	PRHR 74		152.1
576A	CH 27		354.7
576B	CH 27		353.6
575B	CH 27		357.7

River

River

River

River

River

River

River

River

River

903 A 2019-069 Skeena 4 NH4	900 B 2019-069 Skeena 1 NH4	900 A 2019-069 Skeena 1 NH4	561 A NH4 PRHR74 2019-069 Bot 4	565 A NH4 PRHR74 2019-069 Bot 8	562 A NH4 PRHR74 2019-069 Bot 5	559 B NH4 PRHR74 2019-069 Bot 2	902 A 2019-069 Skeena 3 NH4	901 A 2019-069 Skeena 2 NH4
902 B 2019-069 Skeena 3 NH4	564 A NH4 PRHR74 2019-069 Bot 7	561 B NH4 PRHR74 2019-069 Bot 4	563 B NH4 PRHR74 2019-069 Bot 6	564 B NH4 PRHR74 2019-069 Bot 7	901 B 2019-069 Skeena 2 NH4	904 A 2019-069 Skeena 5 NH4	904 B 2019-069 Skeena 5 NH4	559 A NH4 PRHR74 2019-069 Bot 2
563 A NH4 PRHR74 2019-069 Bot 6	562 B NH4 PRHR74 2019-069 Bot 5	565 B NH4 PRHR74 2019-069 Bot 8	576 A NH4 CH27 2019-069 Bot 8	576 B NH4 CH27 2019-069 Bot 8	575 B NH4 CH27 2019-069 Bot 7	575 A NH4 CH27 2019-069 Bot 7	574 A NH4 CH27 2019-069 Bot 6	574 B NH4 CH27 2019-069 Bot 6
573 B NH4 CH27 2019-069 Bot 5	573 A NH4 CH27 2019-069 Bot 5	581 A NH4 MP55 2019-069 Bot 2	582 A NH4 MP55 2019-069 Bot 3	584 A NH4 MP55 2019-069 Bot 5	585 B NH4 MP55 2019-069 Bot 6	586 B NH4 MP55 2019-069 Bot 7	587 B NH4 MP55 2019-069 Bot 8	588 B NH4 MP55 2019-069 Bot 9
589 B NH4 MP55 2019-069 Bot 10	581 B NH4 MP55 2019-069 Bot 2	582 B NH4 MP55 2019-069 Bot 3	584 B NH4 MP55 2019-069 Bot 5	585 A NH4 MP55 2019-069 Bot 6	586 A NH4 MP55 2019-069 Bot 7	587 A NH4 MP55 2019-069 Bot 8	588 A NH4 MP55 2019-069 Bot 9	589 A NH4 MP55 2019-069 Bot 10

Aug 9 Batch 1 cont.

Page 2 of 2

date read: Aug 9, 2019 time started to read: Finished 1919 Aug 9, 2019

Sample Number	Station	Depth	Raw Fluor.	Sample Number	Station	Depth	Raw Fluor.
575A	CH27		349.1				
574A	CH27		358.3				
574B	CH27		358.2				
573B	CH27		374.8				
573A	CH27		374.3				
581A	MP55		169.5				
582A	MP55		8.3				
584A	MP55		9.0				
585B	MP55		190.0				
586B	MP55		283.7				
587B	MP55		344.1				
588B	MP55		329.4				
589B	MP55		289.7				
581B	MP55		133.2				
582B	MP55		8.3				
584B	MP55		8.3				
585A	MP55		189.6				
586A	MP55		281.1				
587A	MP55		351.3				
588A	MP55		337.2				
589A	MP55		293.4				

Aug 9 Batch 2

Ammonium analysis

Cruise

2019-069

Start time/date

1330 Aug 9, 2019

Survey Name

Mooring + Chatham Snd

End time/date

2200 Aug 9, 2019

Standards

	microliters 2° std	Conc.	Raw Fluor	Raw Fluor
S0 ✓✓	0	0	6.7	6.6
S1 ✓✓	200	0.5	180.8	no wt added
S2 ✓✓	400	1	345.9	348.0
S3 ✓✓	600	1.5	501.6	496.9
S4 ✓✓	800	2	651.9	644.7
S5 ✓✓	1000	2.5	792.0	743.4

working reagent:

Sensitivity Factor:

midrange std:

Blank water source

C July 5, 2019

28

53

250m

standby = 3.5

Sample Number	Station	Depth	Raw Fluorescence
628B	DGC46		222.9
627A 627A	DGC46		35.1
625A	"		16.2
624A	"		8.9
623A	"		6.9
633A	"		170.4
633B	"		111.7
903B	Skeena 4		350.4
628A	DGC46		228.0
627B	"		36.6
625B	"		15.3
624B	"		7.8
623B 631B	"		7.9
630B	"		335.5
629B	"		340.5
631A	"		223.5
630A	"		341.8
629A	"		336.9
530A	CH25		8.4
531B	"		7.8
532B	"		9.0
534B	"		173.9
535A	"		473.7
536B	"		395.7

628 B	627 A	625 A	624 A	623 A	633 A	633 B	903 B
NH4	NH4	NH4	NH4	NH4	NH4	NH4	2019-069
OGC46	OGC46	OGC46	OGC46	OGC46	OGC46	OGC46	Skeena
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	4
Bot 7	Bot 6	Bot 4	Bot 3	Bot 2	Bot 12	Bot 12	NH4

628 A	627 B	625 B	624 B	623 B	631 B	630 B	629 B
NH4	NH4	NH4	NH4	NH4	NH4	NH4	NH4
OGC46	OGC46	OGC46	OGC46	OGC46	OGC46	OGC46	OGC46
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 7	Bot 6	Bot 4	Bot 3	Bot 2	Bot 10	Bot 9	Bot 8

↑

631 A	630 A	629 A	530 A	531 B	532 B	534 B	535 A
NH4	NH4	NH4	NH4	NH4	NH4	NH4	NH4
OGC46	OGC46	OGC46	CH25	CH25	CH25	CH25	CH25
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 10	Bot 9	Bot 8	Bot 2	Bot 3	Bot 4	Bot 6	Bot 7

536 **B**
 NH4
 CH25
 2019-069
 Bot 8

did not record date for ~~62~~ 631B

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date read: 9 Aug 19
batch #2

time started to read:

Sample Number	Station	Depth	Raw Fluor.	Sample Number	Station	Depth	Raw Fluor.
537A	CH25		397.6				
538B	"		377.5				
530B	"		9.7				
531A	"		7.8				
532A	"		9.0				
534A	"		188.2				
535B	"		472.8				
536A	"		399.8				
537B	"		370.8				
538A	"		381.2				
423B	CH16		41.5				
423A	"		32.3				
424A	"		33.1				
424B	"		35.2				
570A	CH27		324.8				
570B	"		319.8				
572B	"		311.0				
572A	"		311.9				

537 ^A	538 ^B	530 ^B	531 ^A	532 ^A	534 ^A	535 ^B	536 ^A	537 ^B
NH4	NH4	NH4	NH4	NH4	NH4	NH4	NH4	NH4
CH25	CH25	CH25	CH25	CH25	CH25	CH25	CH25	CH25
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 9	Bot 10	Bot 2	Bot 3	Bot 4	Bot 6	Bot 7	Bot 8	Bot 9

538 ^A	423 ^B	423 ^A	424 ^A	424 ^B	570 ^A	570 ^B	572 ^B	572 ^A
NH4	NH4	NH4	NH4	NH4	NH4	NH4	NH4	NH4
CH25	CH16	CH16	CH16	CH16	CH27	CH27	CH27	CH27
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 10	Bot 11	Bot 11	Bot 12	Bot 12	Bot 2	Bot 2	Bot 4	Bot 4