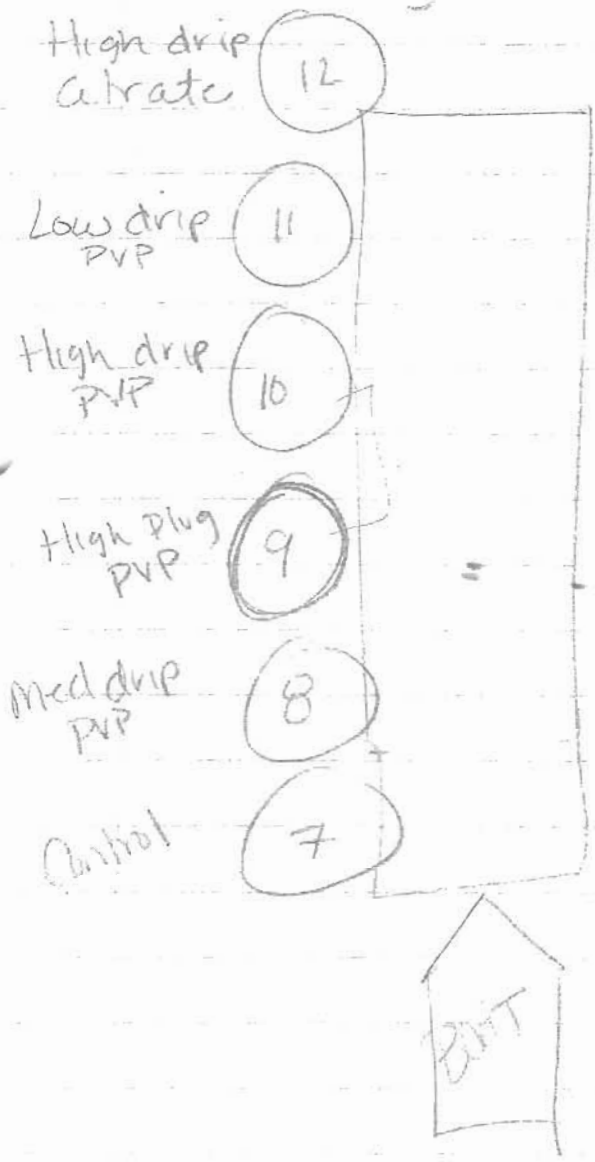
21 June 2012

Pre sampling mesocosms



treatments drawn from a hat
1 treatment on each side

05 Aug 2012

Removed 3 pots and 5 SM packs from MESOCOSMS

Data for pots:

meso #	rep	ml vol. total	1x vol. Chla	1x vol. CN	1x vol. P	1x vol Ag	
1	A	140mL	10ml	10mL	10mL	10mL	
1	B	146mL	10mL	10mL	10mL	10mL	
1	C	180mL	10mL	10mL	10mL	10mL	
7	A	110mL	10mL	10mL	10mL	10mL	
7	B	156mL	10mL	10mL	10mL	10mL	
7	C	116mL	10mL	10mL	10mL	10mL	
2	A	164mL	10mL	10mL	10mL	10mL	
2	B	172mL	10mL	10mL	10mL	10mL	
2	C	186mL	10mL	10mL	10mL	10mL	
11	A	148mL	10mL	10mL	10mL	10mL	
11	B	218mL	10mL	10mL	10mL	10mL	(No lugols)
11	C	100 mL	10mL	10mL	10mL	10mL	
4	A	265mL	10mL	10mL	10mL	10mL	
4	B	130mL	10mL	10mL	10mL	10mL	
4	C	179mL	10mL	10mL	10mL	10mL	
8	A	143mL	10mL	10mL	10mL	10mL	
8	B	150mL	10mL	10mL	10mL	10mL	
8	C	163mL	10mL	10mL	10mL	10mL	

02 Aug 18 Meso Data Continued

Meso #	ABC Rep	Total Vol	Chla Vol	CN Vol	P Vol	Ag Vol
6	A	214mL	10	10	10	10
6	B	[illegible]	10	10	10	10
6	C	129mL	10	10	10	10
10	A	204mL	10	10	10	10
10	B	188mL	10	10	10	10
10	C	146mL	10	10	10	10-
3	A	260mL	10	10	10	10
3	B	153mL	10	10	10	10
3	C	180mL	10	10	10	10
9	A	147mL	10	10	10	10
9	B	196mL	10	10	10	10
9	C	166mL	10	10	10	10
5	A	150mL	10	10	10	10
5	B	133mL	10	10	10	10
5	C	242mL	10	10	10	[illegible]
12	A	[illegible]	10	10	10	10
12	B	148mL	10	10	10	10
12	C	148mL	10	10	10	10

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8	C	163mL	10mL	10mL	10mL	10mL	

23 Aug 12

Added Cl⁻ to increase [illegible] mg/L stock

mesos	Vol added	Cond (after adding)	Cond (2 hrs)	Cond (BG)
4	64 mL	52.7	[illegible]	39.2
8	64 mL	51.7	49.2	37.3
9	64	43.0	47.1	34.5
10	64	43.0	48.9	35.8
11	64	43.1	48.5	35.1
12	64	48.9	[illegible]	40.2
1	64	48.2	51.2	39.5
2	64	42.6	47.8	31.4
3	64	43.2	46.3	33.4
4	64	43.4	47.4	35.2
5	64	43.6	47.1	32.7
6	64	47.3	47.5	36.7

Added another 20mls after
to total Vol added: 84mls

Samples (2/meso) frozen. 125mL each

21 Aug 12

Extracted Sed Traps

* carboys were from

Lake	Rep	Total Vol (mL)	CNLV (mL)
222	A	1350	20
222	B	1400	20
222	C	~~1335~~	20
221	C	~~1250~~	20
221	A	1325	20
221	B	1275	20

Chlorophyll *a* Extractions

Date of analysis: 27-Sept-12 Processed by: Jen

Date of sample collection	Mesocosm	Variable sampled	Amount ethanol added (mL)	Tube #	Notes
18-July-12	1	Seston Chla	5mL	408	Rack 1 3:15
	7			2	
	2			25	
	11			29	
	4			18	
	8			26	
	6			61	
	10			46	
	3			13	
	9			54	
	5			16	
	12			10	
01-Aug-12	1			70	
	7	=		43	
	2			72	
	11			11	
	4			82	
	8			122	
	6			R05	
	10			102	
	3			56	
	9			7	
	5			15	
	12			8	
25-July-12	1			16	
	7			4	
	2			137	

25-July-12	11	Sestan Chk	SmL	~~26~~	
	4			~~25~~	
	8			~~3~~	
	6			8	
	10			~~8~~ 8	
	3			2*	
	9			77	
	5			4	
↓	12			1	
26-June-12	1			25	Rack 2
	7			13	
	2			39	
	11			64	
	4			4	
	8			15	
	6			144	
	10			9	
	5	=		22	
↓	12	↓	↓	18	

Fluorescence Spectrophotometer Chl *a* Readings

Date of analysis: 28-Sept-12

Processed by: Jenn

Standard	Concentration (µg/L)	F mean
Std 1	0.0	0.054
Std 2	0.5	0.152
Std 3	1.0	0.269
Std 4	5	1.004
Std 5	10	1.967
Std 6	20	4.753
Std 7	100	18.928
Std 8	500	106.546
Std 9	1000	198.265

Calibration Equation: Int = 0.20063 * Conc + 0.40148

Calibration Coefficient: 0.99885

Date of sample collection	Mesocosm	Sample #	Tube #	F mean	Notes
18-July-12	1	1	408	26.716	
	7	2	2	45.030	
	2	3	25	57.174	
	11	4	29	100.064	
	4	5	18	45.325	
	8	6	26	43.422	
	6	7	61	49.099	
	10	8	46	37.597	
	3	9	13	14.721	
	9	10	54	11.216	
	5	11	16	33.177	
	12	12	10	47.039	
01-Aug-12	1	13	70	27.353	
	7	14	43	35.556	
	2	15	72	32.781	
	11	16	11	17.415	
	4	17	82	9.930	
	8	18	122	23.131	
	6	19	205	37.694	

01-Aug-12	10	20	102	32.320	
	3	21	56	9.985	
	9	22	7	-0.010	not enough in cuvette
	5	23	15	28.510	
	12	24	8	33.696	
25-Jul4-12	1	25	16	17.809	
	7	26	4	33.673	
	2	27	137	43.357	
	11	28	26	22.268	
	4	29	25	19.968	
	8	30	3	21.673	
	6	31	8	22.832	
	10	32	8708	18.678	
	3	33	2*	13.980	
	9	34	77	13.352	
	5	35	4	3.666	
	12	36	1	42 590	
26-June-12	1	37	25	11 2/6	
	7	38	13	9.646	
	2	39	39	9.119	
	11	40	64	18.861	
	4	41	4	8.281	
	8	42	15	12.087	
	6	43	144	5 289	
	10	44	9	6.616	
	5	45	22	8.921	
	12	46	18	4.652	