Master Data Sheet
2014 Fall
Site E

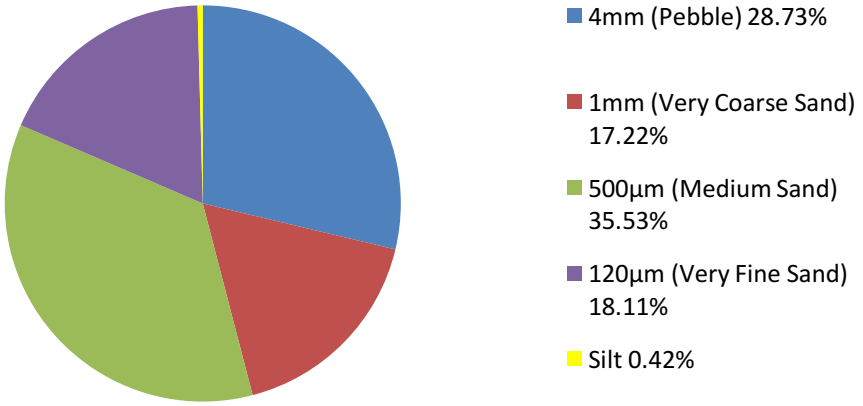
	4mm		1mm		500 micrometers		120 micrometers		Silt		
Sample #	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Total
Transect 5 (2-3m)	552.1	28.73 %	331.0	17.22 %	682.8	35.53 %	348.0	18.11 %	8.0	0.42 %	1921.9
Transect 5 (5-6m)	46.8	3.52 %	399.2	30.05 %	562.5	42.35 %	313.5	23.60 %	6.3	0.47 %	1328.3
Transect 6 (2-3m)	6.2	0.58 %	101.4	9.57 %	687.4	64.87 %	264.1	24.92 %	0.5	0.047 %	1059.6
Transect 6 (5-6 m)	30.7	2.79 %	280.9	25.49 %	491.1	44.56 %	277.6	44.56 %	21.7	1.97 %	1102.0
Transect 7 (2-3m)	1.3	0.10 %	73.6	5.85 %	527.0	41.88 %	621.8	49.41 %	34.8	2.77 %	1268.5
Transect 7 (5-6m)	0	0 %	34.5	2.87 %	805.0	66.88 %	350.2	29.09 %	14.0	1.16 %	1203.7

Transect	Distance from Bank (m)	Feature	Potassium	pH	Nitrogen	Phosphorus
5	2-3	Pool	Medium	6.5	Trace	Trace
5	5-6	Pool	Medium low	7.0	Trace	Trace
6	2-3	Run	Medium high	7.0	Low medium	Trace
6	5-6	Run	Medium	6.5	Trace	Trace
7	2-3	Pool	Medium high	6.5	Trace	Medium
7	5-6	Pool	Medium low	7.0	Trace	Low

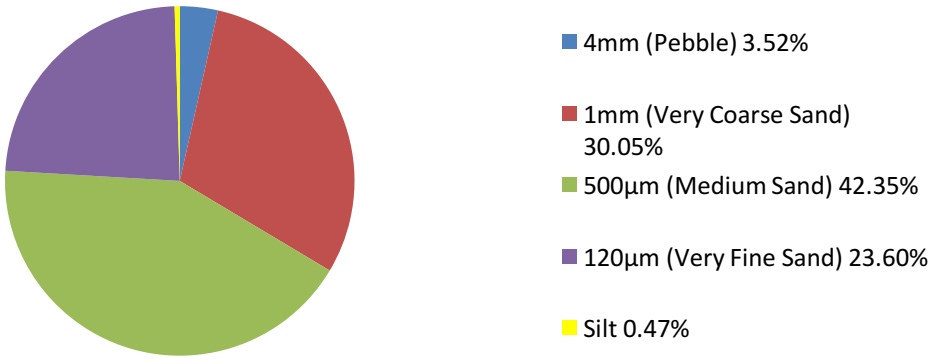
Site E-5 Fall 2014

	4mm		1mm		500 micrometers		120 micrometers		Silt		
Sample #	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Total
Transect 5 (2-3m)	552.1	28.73 %	331.0	17.22 %	682.8	35.53 %	348.0	18.11 %	8.0	0.42 %	1921.9
Transect 5 (5-6m)	46.8	3.52 %	399.2	30.05 %	562.5	42.35 %	313.5	23.60 %	6.3	0.47 %	1328.3

Composition of Sediments at Site E, Transect 5, 2-3m (Fall 2014)



Composition of Sediments at Site E, Transect 5, 5-6m (Fall 2014)

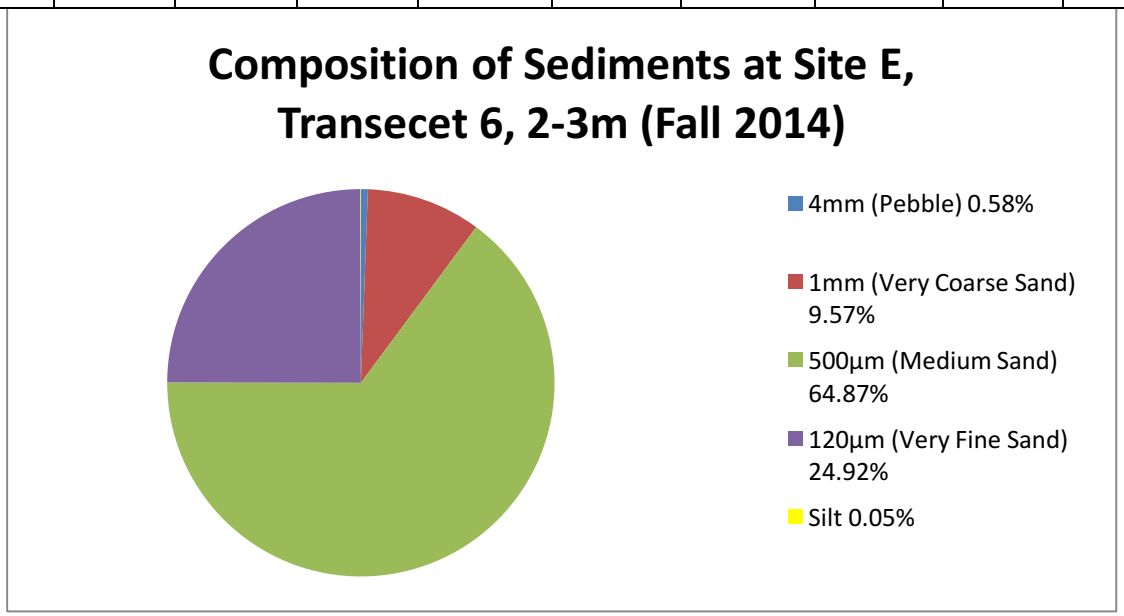


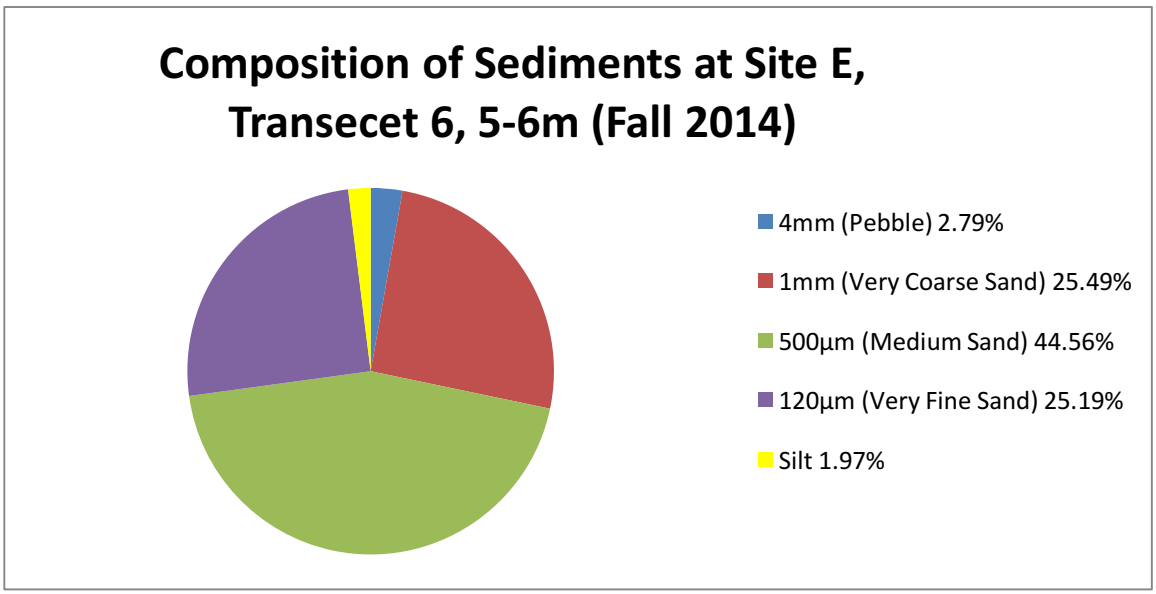
Transect	Distance from Bank (m)	Feature	Potassium	pH	Nitrogen	Phosphorus
5	2-3	Pool	Medium	6.5	Trace	Trace
5	5-6	Pool	Medium low	7.0	Trace	Trace

Analysis: In the sediments collected this year, the composition remained relatively similar to the data obtained last year.* Transect 1 (2-3 m) shows a low percentage of silt, indicating the good health and increased habitability of the creek from the slightly higher levels of silt observed last year. Transect 1 (5-6 m) also displays a very low percentage of silt, which is favorable and remains similar to that of last year. The potassium levels obtained through the chemical testing indicate the creek is healthy due to the medium levels (2-3) and medium low levels (5-6) obtained. The pH levels obtained are also healthy with levels of 6.5 and 7, but the nitrogen levels are both too low; with trace levels the nitrogen cannot stimulate the organisms in the creek. The phosphorus levels obtained for both transects were measured to be trace, and are also too low. Due to its importance in the process of organism growth, the level of phosphorus needs to increase.
*Note: The transects in which the sediments were obtained were changed from the previous year due to an inconvenience (dogs) so previous data is irrelevant

Site E-6 Fall 2014

	4mm		1mm		500 micrometers		120 micrometers		Silt		
Sample #	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Total
Transect 6 (2-3m)	6.2	0.58 %	101.4	9.57 %	687.4	64.87 %	264.1	24.92 %	0.5	0.047 %	1059.6
Transect 6 (5-6 m)	30.7	2.79 %	280.9	25.49 %	491.1	44.56 %	277.6	25.19 %	21.7	1.97 %	1102.0



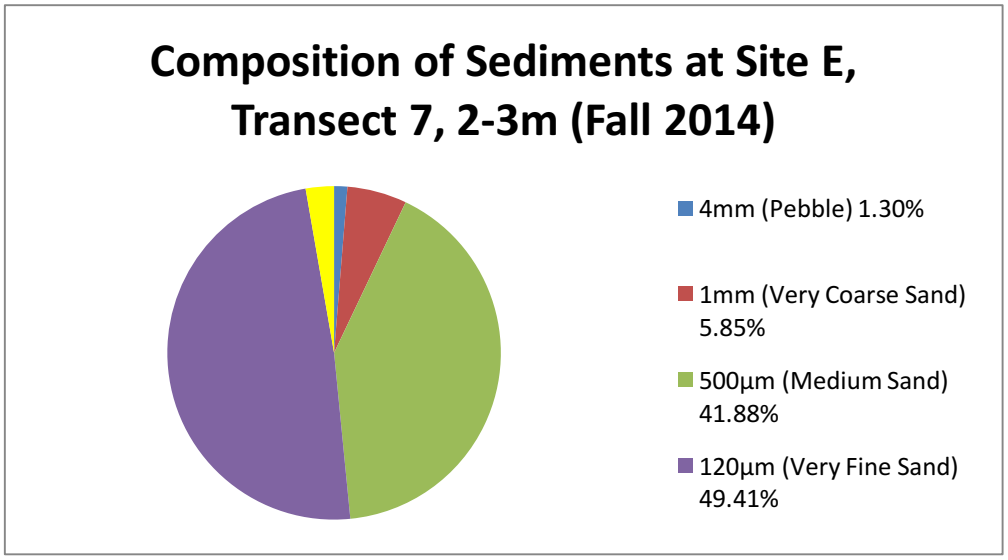


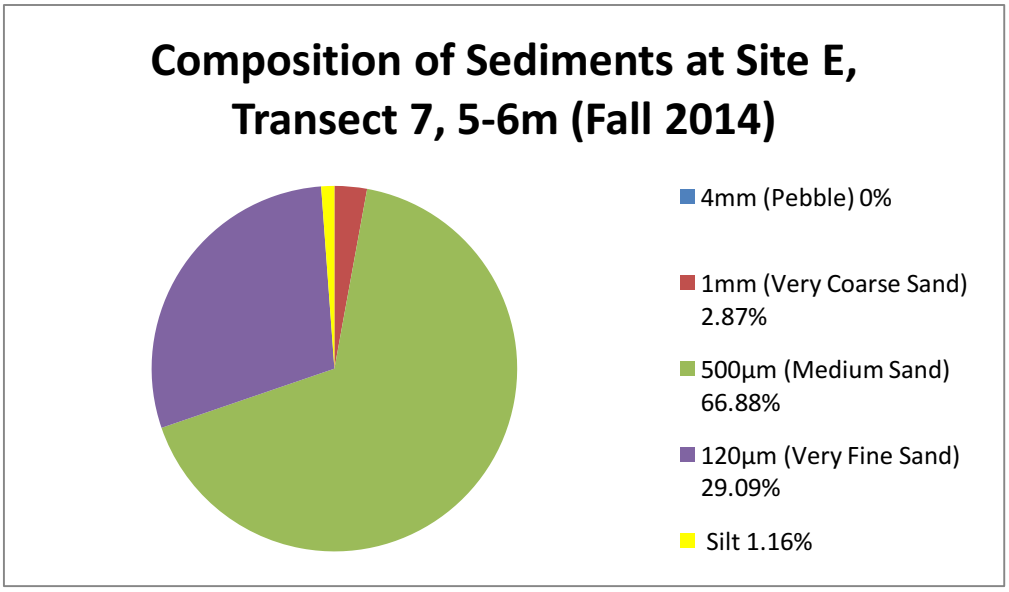
Transect	Distance from Bank (m)	Feature	Potassium	pH	Nitrogen	Phosphorus
6	2-3	Run	Medium high	7.0	Medium low	Trace
6	5-6	Run	Medium	6.5	Trace	Trace

Analysis: With the sediments collected this year, the composition of them remained relatively similar to the data obtained last year.* Transect 1 (2-3 m) shows a low percentage of silt, indicating the good health and increased inhabitability of the creek from the slightly higher levels of silt observed last year. Transect 1 (5-6 m) also displays a relatively low percentage of silt of which remains similar to that of last year and what is wanted. The Potassium levels obtained through the chemical testing indicate the creek is healthy due to the Medium high levels (2-3) and Medium levels (5-6) obtained. The pH levels obtained are also healthy with levels of 7 and 6.5, and the Nitrogen levels of Medium low (2-3 m) is healthy however the levels of trace (5-6 m) is too low, and with the trace level the Nitrogen cannot stimulate the organisms in the creek. The Phosphorous levels obtained for both transects is also too low being trace, and due to its importance in the process of organism growth they need to increase.
*Note: The transects in which the sediments were obtained were changed from the previous year due to an inconvenience (dogs), so previous data is irrelevant

Site E-7 Spring 2014

	4mm		1mm		500 micrometers		120 micrometers		Silt		
Sample #	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Total
Transect 7 (2-3m)	1.3	0.10 %	73.6	5.85 %	527.0	41.88 %	621.8	49.41 %	34.8	2.77 %	1268.5
Transect 7 (5-6m)	0	0 %	34.5	2.87 %	805.0	66.88 %	350.2	29.09 %	14.0	1.16 %	1203.7

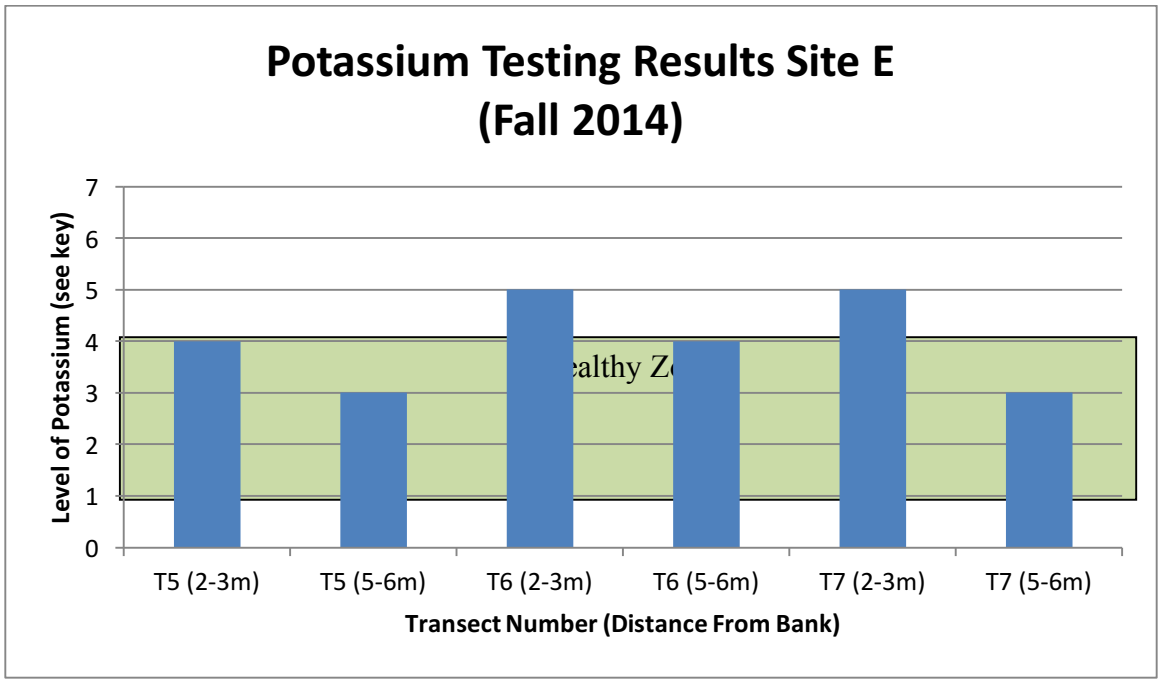


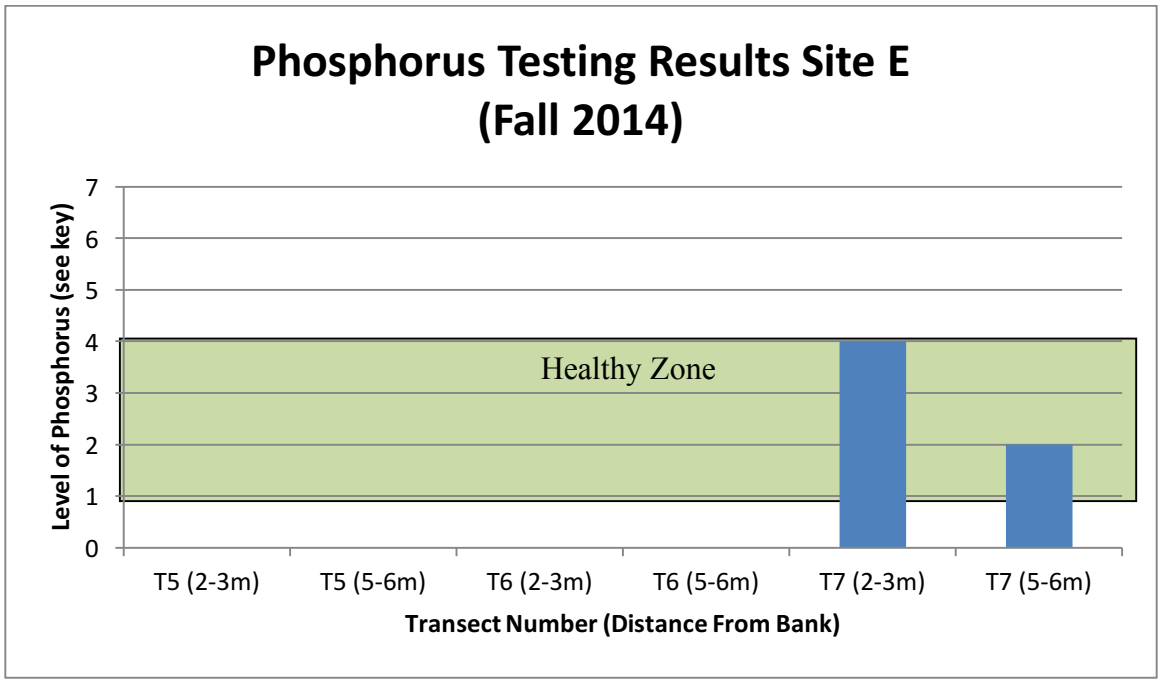


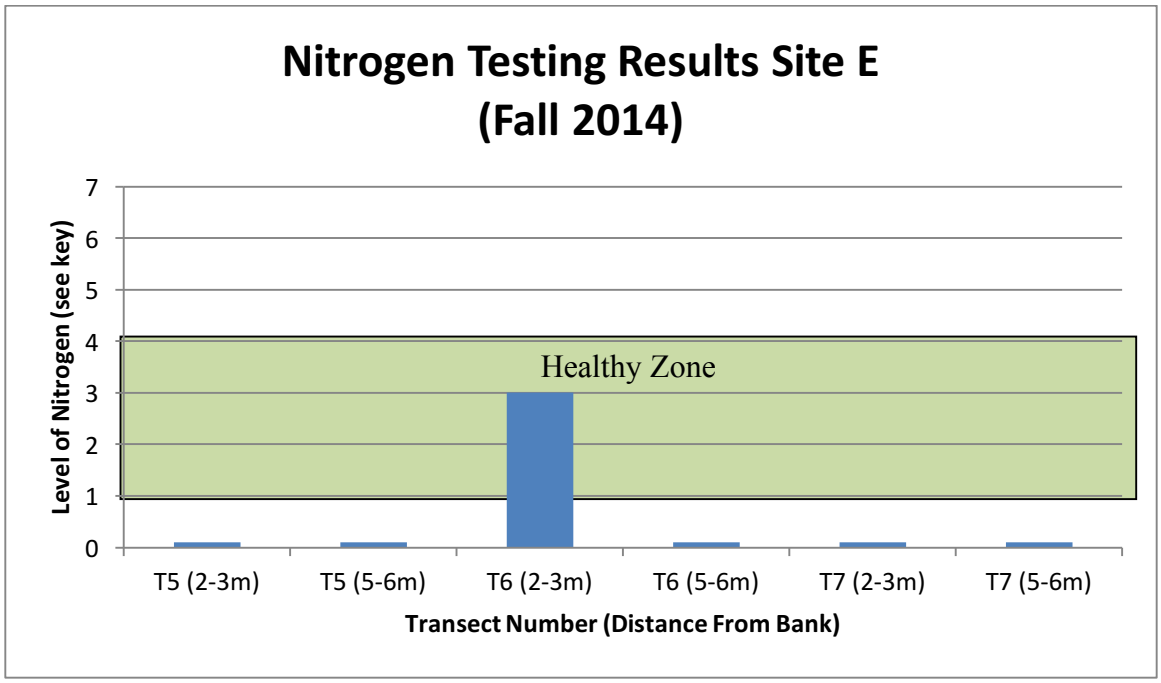
Transect	Distance from Bank (m)	Feature	Potassium	pH	Nitrogen	Phosphorus
7	2-3	Pool	Medium high	6.5	Trace	Medium
7	5-6	Pool	Medium low	7.0	Trace	Low

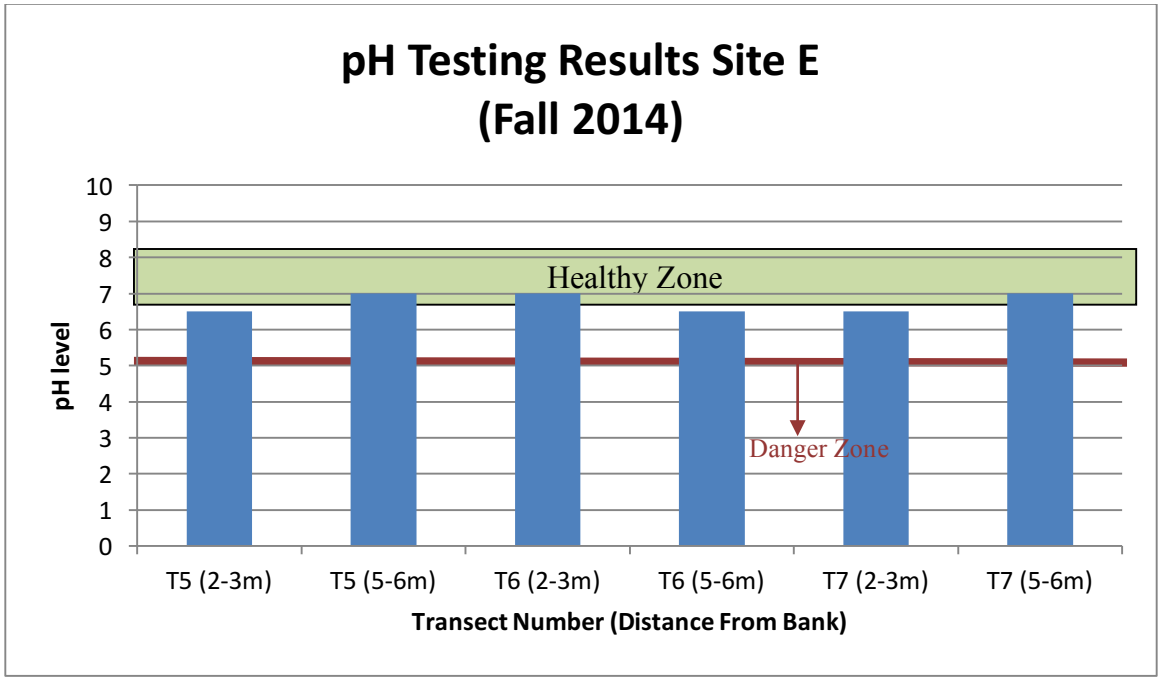
Analysis: With the sediments collected this year, the composition of them remained relatively similar to the data obtained last year.* Transect 1 (2-3 m) shows a relatively low percentage of silt, indicating the good health and increased inhabitability of the creek from the slightly higher levels of silt observed last year. Transect 1 (5-6 m) also displays a relatively low percentage of silt of which remains similar to that of last year and what is wanted. The Potassium levels obtained through the chemical testing indicate the creek is healthy due to the Medium high levels (2-3) and Medium low levels (5-6) obtained. The pH levels obtained are also healthy with levels of 6.5 and 7, and the trace Nitrogen levels of both transects is too low, and with the trace level the Nitrogen cannot stimulate the organisms in the creek. The Phosphorous levels obtained for both transects are healthy with both being over trace, and due to its importance in the process of organism growth they are both good levels to be seen in the creek.
*Note: The transects in which the sediments were obtained were changed from the previous year due to an inconvenience (dogs), so previous data is irrelevant

Chemical Testing Graphs






Nitrogen Testing Results Site E
(Fall 2014)
Level of Nitrogen (see key)
7
6
5
4
3
2
1
0
Healthy Zone
T5 (2-3m)
T5 (5-6m)
T6 (2-3m)
T6 (5-6m)
T7 (2-3m)
T7 (5-6m)
Transect Number (Distance From Bank)
Key:
0 Trace
1 Very Low
2 Low
3 Medium Low
4 Medium
5 Medium High
6 High
7 Very High


pH Testing Results Site E
(Fall 2014)
pH level
10
9
8
7
6
5
4
3
2
1
0
Healthy Zone
Danger Zone
T5 (2-3m)
T5 (5-6m)
T6 (2-3m)
T6 (5-6m)
T7 (2-3m)
T7 (5-6m)
Transect Number (Distance From Bank)