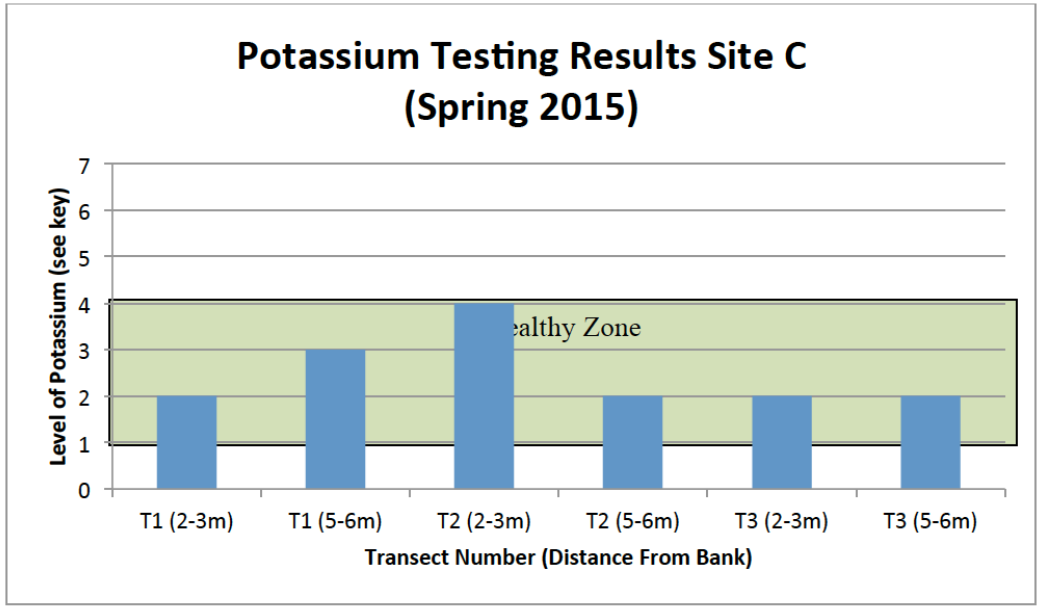
Master Data Sheet
2015 Spring
Site C

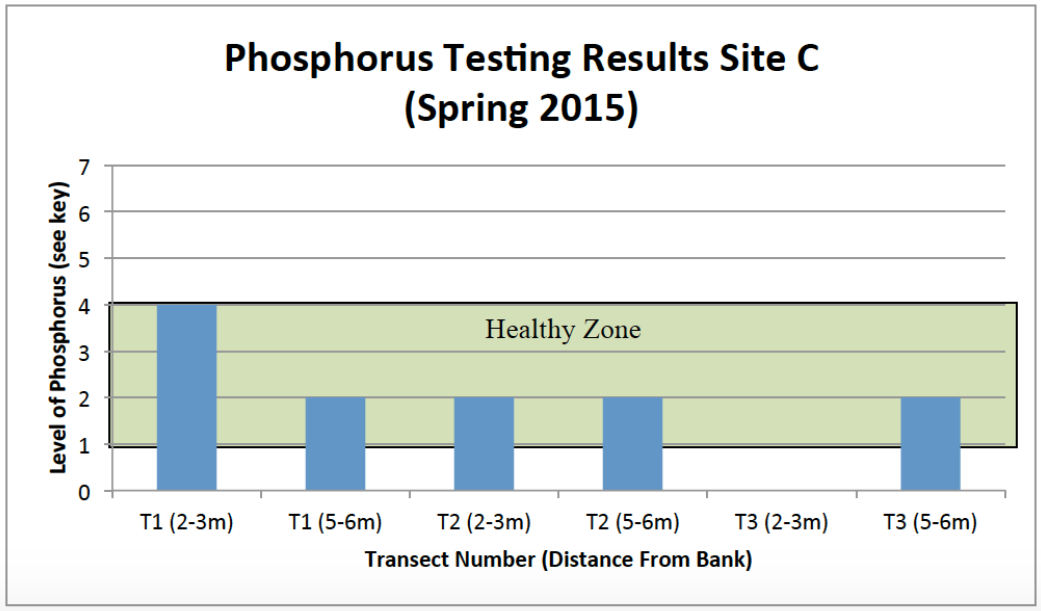
	4mm		**1mm**		**500 µm**		**120 µm**		**Silt**		
Sample #	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Total (g)
1:Transect 1 (2-3m)	340.3	24.8	322.2	23.5	544.6	39.7	160.0	11.7	3.8	.3	1370.9
2:Transect 1 (5-6m)	164.2	16.3	216.5	21.5	459.4	45.7	162.7	16.2	3.3	.3	1006.1
3:Transect 2 (2-3m)	159.5	15.7	415.3	40.9	349.0	34.3	87.1	8.6	5.2	.5	1016.1
4:Transect 2 (5-6 m)	264.8	25.4	251.3	24.1	390.6	37.5	131.3	12.6	3.1	.3	1041.1
5:Transect 3 (2-3m)	44.0	4.6	276.3	29.1	324.8	34.2	260.8	27.4	45.1	4.7	951.0
6:Transect 3 (5-6m)	20.7	1.8	371.1	32.5	532.0	46.6	199.5	17.5	17.4	1.5	1140.7

Transect	**Distance from Bank (m)**	**Corbicula**	**Feature**	**Potassium**	**pH**	**Nitrogen**	**Phosphorus**
1	2-3	0	Dry	low	6	trace	medium
1	5-6	0	Dry	medium low	7	trace	low
2	2-3	0	Pool	medium	7	trace	low
2	5-6	0	Pool	low	7	trace	low
3	2-3	0	Pool	low	6	trace	trace
3	5-6	0	Pool	low	6	trace	low

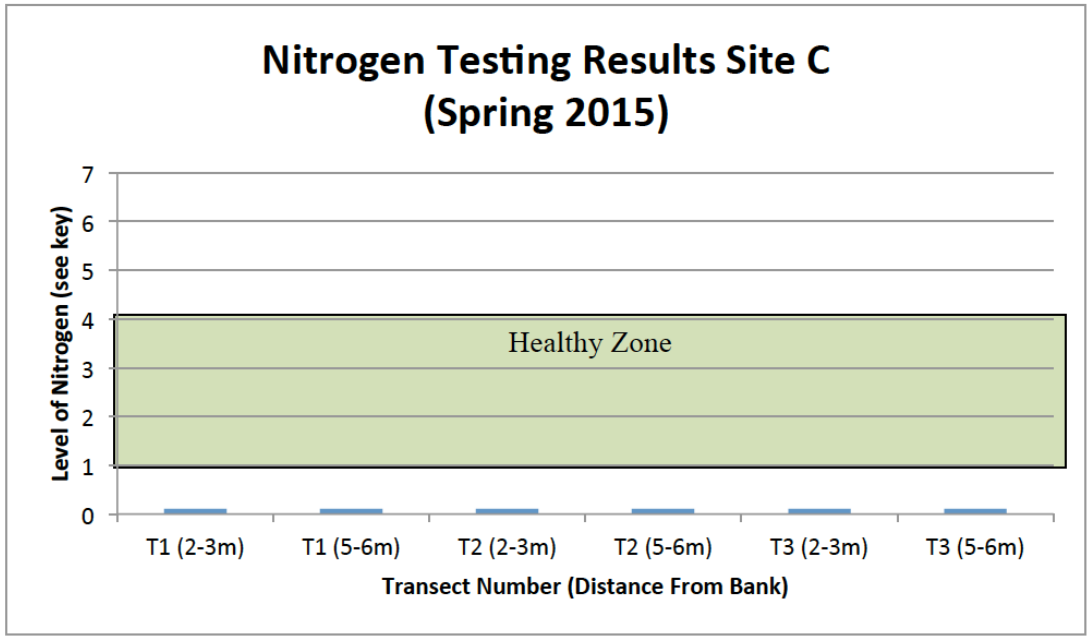
Chemical Testing Graphs

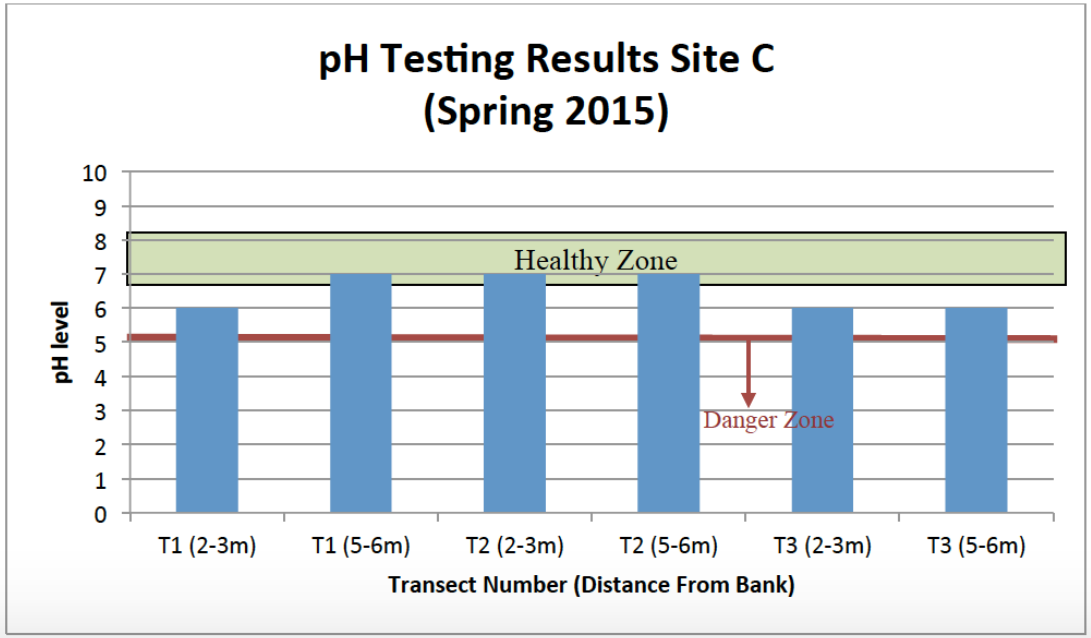


Key:
0 Trace
1 Very Low
2 Low
3 Medium Low
4 Medium
5 Medium High
6 High
7 Very High



Key:
0 Trace
1 Very Low
2 Low
3 Medium Low
4 Medium
5 Medium High
6 High
7 Very High


Nitrogen Testing Results Site C
(Spring 2015)
Level of Nitrogen (see key)
7
6
5
4
3
2
1
0
Healthy Zone
T1 (2-3m)
T1 (5-6m)
T2 (2-3m)
T2 (5-6m)
T3 (2-3m)
T3 (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

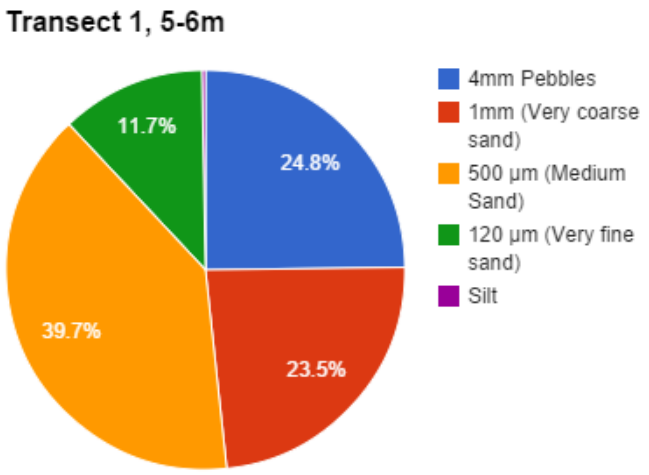

pH Testing Results Site C
(Spring 2015)
pH level
10
9
8
7
6
5
4
3
2
1
0
Healthy Zone
Danger Zone
T1 (2-3m)
T1 (5-6m)
T2 (2-3m)
T2 (5-6m)
T3 (2-3m)
T3 (5-6m)
Transect Number (Distance From Bank)

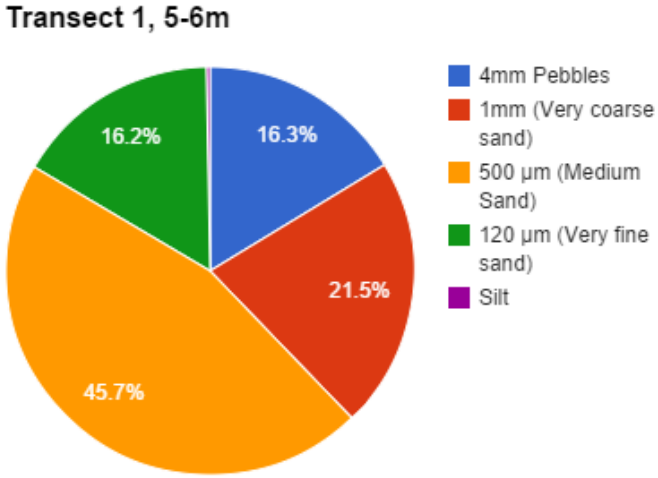
Transect 1 Site Analysis Spring 2015

	4mm		1mm		500 µm		120 µm		Silt		Total
Sample #	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	
2-3m	340.3	24.8	322.2	23.5	544.6	39.7	160.0	11.7	3.8	.3	1370.9
5-6m	164.2	16.3	216.5	21.5	459.4	45.7	162.7	16.2	3.3	.3	1006.1

Distance from Bank (m)	Feature	Potassium	pH	Nitrogen	Phosphorus
2-3	Dry	low	6	trace	medium
5-6	Dry	medium low	7	trace	low

Sediment Composition Graphs:





Analysis: Silt levels have risen quite a bit since a year ago, which, if unchecked, can be detrimental to the oxygen-requiring macroinvertebrates residing in the benthic layer. However, there has been a lot less sand since last year, and there are higher percentages of larger sediment types which are good for the creek and counterbalance the effects of the increase in silt.

Chemical Testing: The pH levels and Nitrogen levels have remained the same since spring 2014, and although potassium and phosphorus levels have changed a bit, to change is minimal, and brings no alarm. The results have remained at healthy levels.

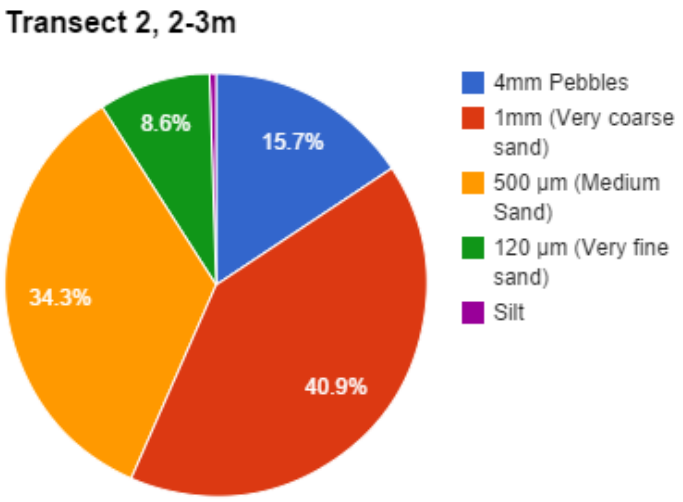
Corbicula: No *Corbicula* were found, this matches last year's data. This is good for the creek because *Corbicula* are invasive species and provide unfair competition for the indigenous species.

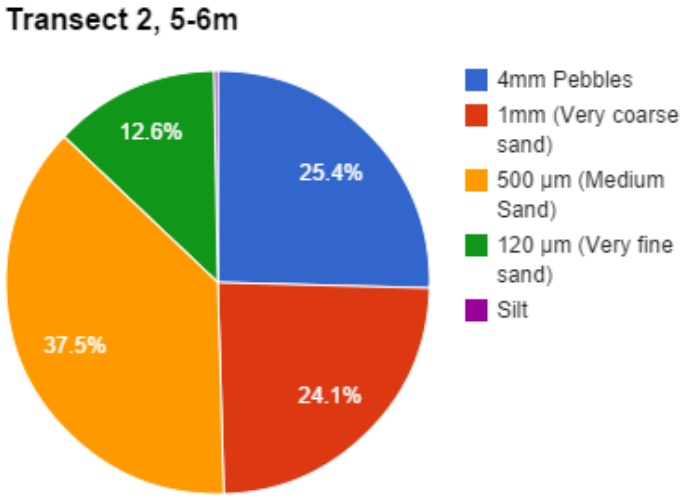
Transect 2 Site Analysis Spring 2015

	4mm		1mm		500 µm		120 µm		Silt		
Sample #	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Total
2-3	159.5	15.7	415.3	40.9	349.0	34.3	87.1	8.6	5.2	.5	1016.1
5-6	264.8	25.4	251.3	24.1	390.6	37.5	131.3	12.6	3.1	.3	1041.1

Distance from Bank (m)	Feature	Potassium	pH	Nitrogen	Phosphorus
2-3	Pool	medium	7	trace	low
5-6	Pool	low	7	trace	low

Sediment Composition Graphs:





Analysis: There has been a significant change in sediment composition from this transect. Although silt levels remain more or less the same, the previous, almost homogenous sand has become more distributed among the larger sediment types. Last year 500 micromillimeters comprised of around 70% or the sediments, but now it only comprises 34%.

Chemical Testing: pH levels remain stable and safe, and Nitrogen levels remain trace. Phosphorus levels are the same, at low. Potassium has risen slightly, but is still at a healthy level.

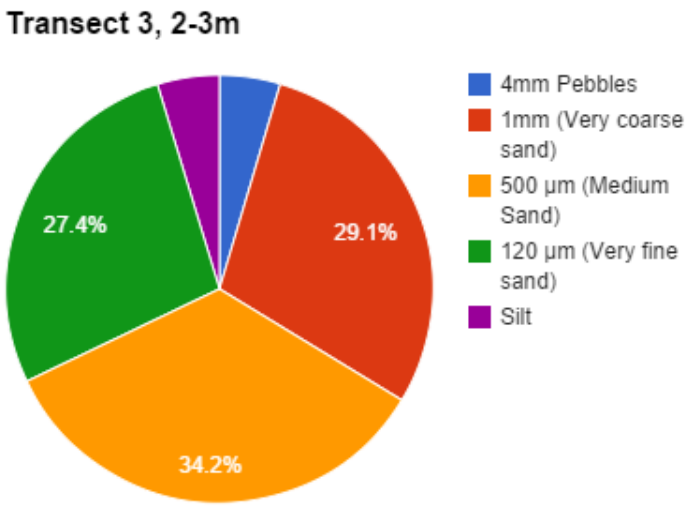
Corbicula: No *Corbicula* were found, this matches last year's data.

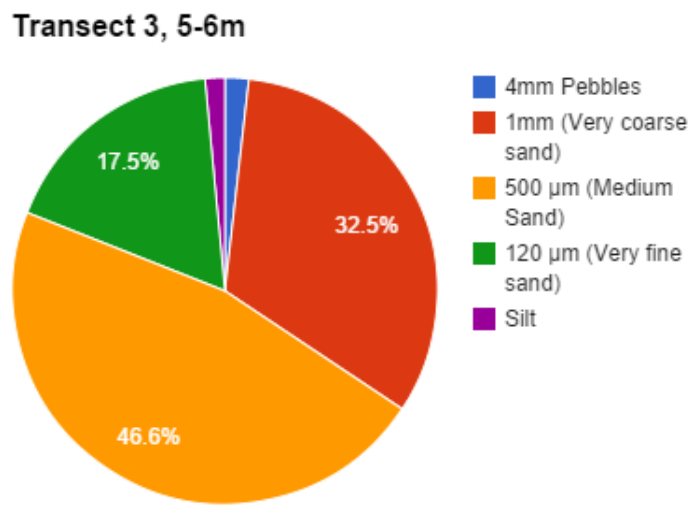
Transect 3 Site Analysis Spring 2015

	4mm		1mm		500 µm		120 µm		Silt		
Distance	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Total
2-3m	44.0	4.6	276.3	29.1	324.8	34.2	260.8	27.4	45.1	4.7	951.0
5-6m	20.7	1.8	371.1	32.5	532.0	46.6	199.5	17.5	17.4	1.5	1140.7

Distance from Bank (m)	Feature	Potassium	pH	Nitrogen	Phosphorus
2-3	Pool	low	6	trace	trace
5-6	Pool	low	6	trace	low

Sediment Composition Graphs:





Analysis: Unlike the other two transects, the larger sediments, which previously made up about <15% of the sediments, now make up <5% of this transect's sediments. Silt levels, which have always been unsafely large at this transect, are at equal levels of the larger sediments. This can become a large issue without check, as the increased amount of silt means less EPT Taxa, the Arcade creek's Indicator species.

Chemical Testing: Nitrogen and Phosphorus levels remain the same as last year, and Potassium levels have risen a little bit, although still on the low side of the healthy zone. pH has become a basic 6, which can be dangerous at unaccustomed macroinvertebrates.

Corbicula: No *Corbicula* were found, this matches last year's data.