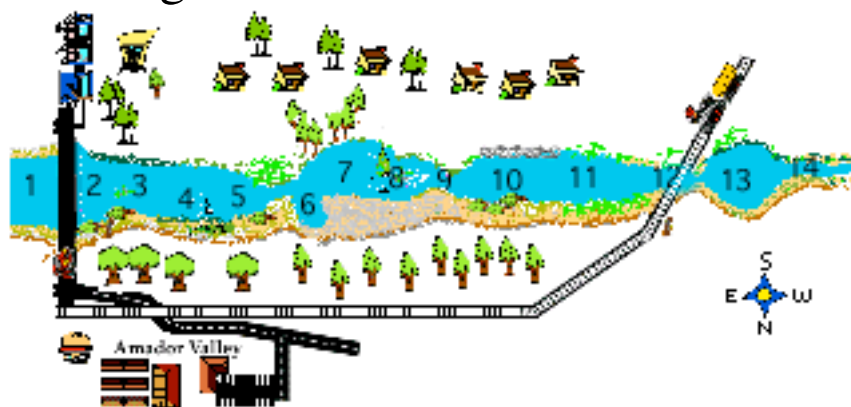


# Creek Organism Collection / Observation

Date: 08/31/2010



Location(s) 4-5 6-7 10-11 12 14

Very Sensitive to Pollution	✓	#	Somewhat Tolerant to Pollution	✓	#	Very Tolerant of Pollution	✓	#
<a href="#">Caddis Fly Larvae</a>		75+	<a href="#">Crayfish</a>		2	<a href="#">Pouched Snail</a>		40+
<a href="#">Mayfly Larvae</a>		5	<a href="#">Amphipod</a>		100 +	<a href="#">Orb Snail</a>		5
<a href="#">Helgremite</a> (Dobsonfly)		0	<a href="#">Damsel fly Nymph</a>		11	<a href="#">Flatworms</a>		7
<a href="#">Stonefly Larvae</a>		0	<a href="#">Dragonfly Nymph</a>		8	<a href="#">Nematode</a> (not segmented)		6
Riffle Beetle		0	<a href="#">Crane fly Larvae</a>		0	<a href="#">Leech</a> (segmented)		5
Water Penny		0	<a href="#">Soldierfly Larvae</a>		0	<a href="#">Oligochaete</a> (segmented – bristles)		2
Gilled Snail		2	<a href="#">Black Bass</a>		20+	<a href="#">Blackfly Larvae</a>		2
<a href="#">Frogs/Tadpoles</a>		1	<a href="#">Blue Gill</a>		4+	<a href="#">Midge Larvae</a>		8
<a href="#">Creek Chub</a>		0	<a href="#">Mosquito Fish</a>		50+	<a href="#">Clams</a>		5
<a href="#">Volvox</a>		15	<a href="#">Daphnia</a>		many	<a href="#">Spirogyra</a>		limited
# of <b>different species</b> multiplied by 2 =			# of <b>different species</b> multiplied by 1 =			# of <b>different species</b> multiplied by -1 =		
Add the number from the three groups above and use the scale below to assess water quality Excellent (>10)      Good (9-7)      Fair (6-5)      Poor (<5) ( <b>circle ranking</b> )								
Dipnet & Kicknet Data - To be used in Early Fall and Late Spring Assessments Only								

Unknowns	✓	#	Description (legs / segmented / appendages / shape / appx. Size / movement / shell / color)
A		3	Squawfish Observed – (moderately tolerant) seen twice
B		5	Water Scorpion (Aquatic Stick insect) – moderately tolerant
C		2	Copepod– 100+ (moderately tolerant)
D			Plankton Net – abundant zooplankton collected near site 14

		Plankton Samples				
Phytoplankton				Zooplankton		
Organism	Number	Tolerance		Organism	Number	Tolerance
Volvox	14	moderately		Euplotes	4	moderate
Zygnema	11	tolerant		Amphipod	many	moderate
Spirogyra	abundant	tolerant		Daphnia	many	moderate
Unknown Diatoms	10			Mite	4	tolerant
Coccones	abundant	tolerant		Orb snail	11	moderate
Cladophora	2	moderately		Mayfly	3	not tolerant
Tabellaria	abundant	moderately		Nematode	5	tolerant
Chlamydomonas	2	not tolerant		Ostracod	7	moderate
Oedogonium	6	tolerant		Cyclops	9	moderate
Protococcus	2	moderately		Paramecium	4	moderate
Cymbella (diatom)	12	moderately		Planaria	3	tolerant
Scenedesmus	1	moderately		Water strider	6	moderate
Fragillaria	2	moderately		Pouched snail	many	tolerant
				Vorticella	many	tolerant
				Nauplius	4	moderate
				Midge larva	7	tolerant
				Sponge	1	moderate

Data - 8/30/2011

Dissolved Oxygen

Water Temp - 20C - 24C

Site	Depth	algae/plant phytoplankton	Initial	<u>Light</u>	<u>Dark</u>	Difference
11	Top	phyto	4.5	2	0.1	1.9
11	Bottom	phyto	4.4	0.3	0.1	0.2
12	Top	plant	5.4	12.6	3.6	9
12	Bottom	plant	5.1	8.6	4.9	3.7
13	Top	algae	7.2	6.3	2.4	3.9
13	Bottom	algae	6.8	4.9	1.9	3

Site	Depth	Flow	D.O.	
2	top	calm	8.9	morning
6	top	calm	4.5	afternoon
7	top	calm	5.1	afternoon
7	bottom	calm	4.7	afternoon
12	8"	moving	8.2	morning
12	top	moving	9.1	morning
12	top	calm	5.7	afternoon
12	top	moving	7.7	afternoon
12	12"	moving	5.2	afternoon
13	top	moving	8.5	morning

Site	pH	<u>Nitrate</u>	<u>Conductivity</u>	<u>Turbidity</u>
1	2.17	0.9	333	6.2
2	4.3	0.1	214	11
3	3.5	0.3	313	5.3
4	4.17	0.8	748	177
5	3.89	0.6	324	27
6	3.8	0.4	320	22.3
7	4.3	0.6	300	24
9	2.71	0.5	329	17
10	2.5	0.5	325	9.6
11	4.6	0.8	525	194
12	3.08	1	323	2
13	3.75	0.7	502	195
14	5.1	0.1	318	218

pH actual readings are unreliable but may reveal differences in site pH (more/less acidic/basic)