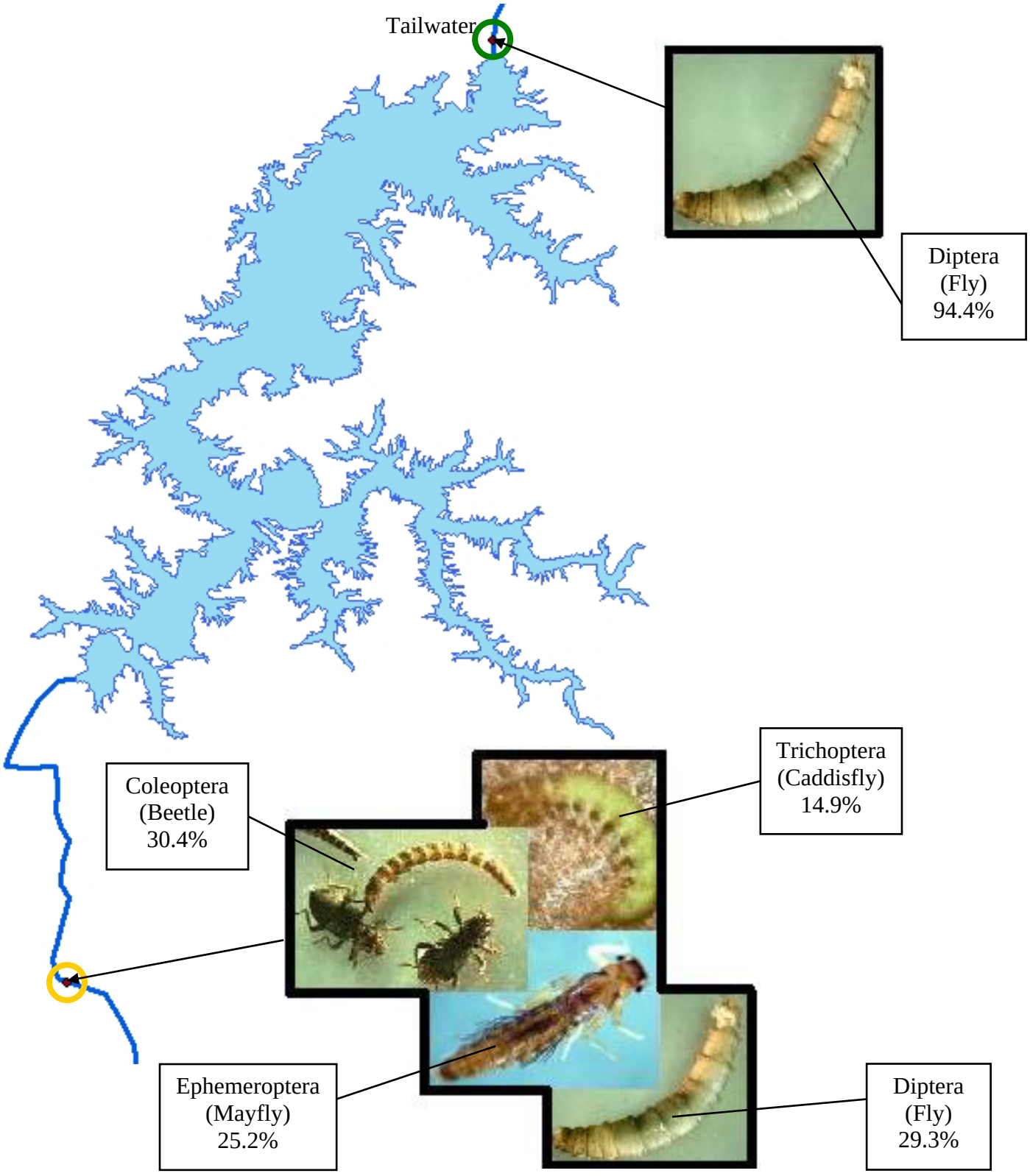
Aquatic Insects' Community Structure
Cagles Mill Lake Analysis
August 24 & 25, 2004

Relative abundance of dominant taxa found at each of the sites shown below.



Community Metrics *	Cagles Mill Lake	
	Tailwater	Mill Creek
Collection Date	8/24/04	8/25/04
Total Number of Taxa	24	34
% Contribution of Dominant Taxa	81	76
Modified Hilsenhoff Biotic Index (0, good – 10, bad)	7.81	5.31
Shannon-Wiener Index	2.19	2.29
Number of Ephemeroptera Taxa	4	6
% Ephemeroptera Taxa (Abundance)	1	22
Number of Plecoptera Taxa	0	0
% Plecoptera Taxa (Abundance)	0	0
Number of Trichoptera Taxa	4	4
% Trichoptera Taxa (Abundance)	3	13
Number of EPT Taxa	8	10
% EPT Taxa	4	35
Number of Dipteran Taxa	9	17
% Dipteran Taxa	79	26
Number of Chironomid Taxa	8	14
% Chironomid Taxa	79	26
Number of Tanytarsini Taxa	2	3
% Tanytarsini Taxa	3	7
Number of Orthocladiinae Taxa	1	1
% Orthocladiinae Taxa	2	0
% Cricotopus + Chironomus/Total Chiron.	3	1
Number of Dipteran Taxa – Tanytarsini and other Non-Insect Taxa	12	17
% Dipteran Taxa - Tanytarsini and other Non-Insect Taxa	93	31
Ratio of EPT to Chiron. Abundance	0.05	1.38
Percent Tolerant Organisms	21	0
Numbers of Individuals / m^2	6,270	12,262

* Based on 4 replicate surber samples
Substrate sampled – small stones

5 Most Abundant Taxa on the Tailwater
1. Dicrotendipes neomodestus (Diptera) 33.9%
2. Dicrotendipes sp. (Diptera) 20.6%
3. Polypedilum flavum (Diptera) 17.7%
4. Glyptotendipes sp. (Diptera) 13.3%
5. Cricotopus/Orthocladius sp. (Diptera) 2.9%
5. Tribelos sp. (Diptera) 2.9%

5 Most Abundant Taxa on the Tailwater
1. Stenelmis sp. (Coleoptera) 29.9%
2. Tricorythodes sp. (Ephemeroptera) 23.9%
3. Hydroptila sp. (Trichoptera) 10.7%
4. Dicrotendipes neomodestus (Diptera) 8.1%
5. Tanytarsus sp. (Diptera) 6.1%