Centre County Senior Environmental Corps

Macroinvertebrate Survey Data Recording Sheet

SITE NAME & DESCRIPTION:		
DATE:	**TIME:**	**RECORDER:**
MONITOR:	**MONITOR:**	
MONITOR:	**MONITOR:**	
MONITOR:	**MONITOR:**	

PRECIPITATION – Choose one for past 24 hrs. and one for current weather			
Past 24 hrs		**Current**	
	Storm		Storm
	Rain		Rain
	Showers		Showers
	Overcast		Overcast
	Clear		Clear

TYPE OF STREAM – choose one

	Rocky Bottom		Muddy Bottom
Muddy Bottom sampling only – record number of jabs taken in each habitat type.			
	Silt/sand/gravel Substrate		
	Vegetated Bank Margins		
	Snags and Logs		
	Aquatic Vegetation Beds		

MACROINVERTEBRATE COUNT
3 Netting-count Total: Rare (R): 1-9
Common (C): 10-99 Dominant (D): >100

GROUP 1 (SENSITIVE)					
1	**2**	**3**	**Total**	**(R,C, or D)**	
					Gilled Snails
					Hellgrammites
					Mayfly Nymphs
					Non-Net Spinning Caddisfly Larvae
					Riffle Beetle Adults
					Stonefly Nymphs
					Water Penny Larvae
GROUP 2 (SOMEWHAT SENSITIVE)					
1	**2**	**3**	**Total**	**(R,C, or D)**	
					Alderfly Larvae
					Beetle Larvae
					Clams
					Cranefly Larvae
					Crayfish
					Damselfly Nymphs
					Dragonfly Nymphs
					Fishfly Larvae
					Net-Spinning Caddisfly Larvae
					Scuds
					Sowbugs

GROUP 3 (TOLERANT)

1	**2**	**3**	**Total**	**(R,C, or D)**	
					Blackfly Larvae
					Leeches
					Midge Larvae
					Snails
					Aquatic Worms

Water Quality Rating – To calculate index value, add total number of letters (R, C, D) found in the 3 groups and multiply by indicated weighing factor.

GROUP 1 (SENSITIVE)	
# of R's:	**X 5.0 =**
# of C's:	**X 5.6 =**
# of D's:	**X 5.3 =**
Index Value for Group 1 (Sum for Group 1)	
GROUP 2 (SOMEWHAT SENSITIVE)	
# of R's:	**X 3.2 =**
# of C's:	**X 3.4 =**
# of D's:	**X 3.0 =**
Index Value for Group 2 (Sum for Group 2)	
GROUP 3 (TOLERANT)	
# of R's:	**X 1.2 =**
# of C's:	**X 1.1 =**
# of D's:	**X 1.0 =**
Index Value for Group 3 (Sum for Group 3)	
Water Quality Score	

To calculate Water Quality Score for the stream site - add the Index Values for each group. →

Compare this score to the following number ranges to determine the quality of your stream site:
Water Quality Score Ranges: □ Good: > 40 □ Fair: 20-40 □ Poor < 20

Notes: