APPENDIX A – Watershed Characterization Data

Table A-1: Reference Watersheds

MD 8-digit Name[1]	MD 8-digit	FIBI n	BIBI n	FIBI[4]	BIBI	Forest Normalized[2] Sediment Load
Deer Creek	02120202	28	28	Ind.	Pass	3.63
Broad Creek	02120205	10	10	Ind.	Pass	3.67
Little Gunpowder Falls	02130804	19	20	Ind.	Pass	3.26
Prettyboy Reservoir	02130806	11	11	Pass	Pass	2.87
Liberty Reservoir	02130907	31	31	Pass	Pass	3.28
S Branch Patapsco	02130908	10	10	Pass	Pass	3.57
Rocky Gorge Dam	02131107	10	10	Pass	Pass	3.43
Brighton Dam	02131108	11	11	Ind.	Pass	3.61
Town Creek	02140512	16	20	Ind.	Pass	2.17
Savage River	02141006	13	14	Pass	Pass	2.48
Median[3]						3.3
75th Percentile						3.6

Notes: [1] Potomac River Lower North Branch determined to be an outlier through statistical analysis and best professional judgment; Fifteen Mile Creek watershed was removed because the majority of the watershed is in Pennsylvania.

[2] Forest normalized sediment loads based on Maryland watershed area only (Consistent with MBSS random monitoring data).

[3] Median rounded down (3.36 to 3.3) as conservative estimate

[4] Ind.= Indeterminate.

Table A-2: Benthic SSDI Calculation

Site	Epifaunal Substrate	Percent embeddedness	Benthic Tolerant Species	Bank Stability Index	Benthic SSDI
LMON-112-R-2003	3	3	3	3	3.0
LMON-114-R-2003	3	5	5	3	4.0
LMON-119-R-2003	3	3	1	3	2.5
LMON-121-R-2003	5	5	1	1	3.0
LMON-125-R-2003	3	3	3	3	3.0
LMON-131-R-2003	3	3	3	3	3.0
LMON-136-R-2003	3	5	5	5	4.5
LMON-210-R-2003	3	3	1	5	3.0
LMON-215-R-2003	5	5	3	3	4.0
LMON-220-R-2003	1	3	3	3	2.5
LMON-322-R-2003	5	5	3	1	3.5
Average	**3.36**	**3.91**	**2.82**	**3.00**	**3.27 ± 0.32**

Table A-3: Fish SSDI Calculation

Site	Percent embeddedness	Instream Habitat	Epifaunal Substrate	Fish SSDI
LMON-112-R-2003	3	3	3	3.00
LMON-114-R-2003	5	1	3	3.00
LMON-119-R-2003	3	3	3	3.00
LMON-121-R-2003	5	3	3	3.67
LMON-125-R-2003	3	3	3	3.00
LMON-131-R-2003	3	1	3	2.33
LMON-136-R-2003	5	3	3	3.67
LMON-210-R-2003	3	3	3	3.00
LMON-215-R-2003	5	5	5	5.00
LMON-220-R-2003	3	3	1	2.33
LMON-322-R-2003	5	5	5	5.00
Average	**3.91**	**3.00**	**3.18**	**3.36±0.45**