

Metropolitan Council, Environmental Services  
**Curricula Supporting Water Quality Projects**  
**Aligned with Minnesota Graduation Standards**

1 = Very strong, direct connection at this grade level  
 2 = Requires some adaptation for a strong connection  
 b = Good background for this standard/subject

	• PROJECTS •	General Issues	Reconnaissance	Water Testing	Soil Testing	Clean-Ups	Aquatic Habitat	Prevent Erosion	Stencil Drains	Public Education	• SUBJECTS •	Background	Biology	Chemistry	Earth & Space Syst.	Physics	Environmental Syst.	Geology	Algebra	Geometry	
<b>Grades 9-12</b>																					
<i>Environmental Resource Guide (ERG)</i>																					
• Lingo Bingo, p. 5 (vocabulary, pollution control issues)	1	-	-	-	-	-	-	-	-	1		1	1	1	1	1	1	-	-	-	
• Watershed Woes, p. 19 (map and analyze a watershed)..	1	1	-	-	-	-	-	-	1	1		1	1	-	1	1	1	1	2	-	
• Pollution P. I., p. 41 (analyze simulated pollution data ).	1	-	1	-	-	-	-	-	-	1		1	1	1	1	1	1	-	-	-	
• Fed Up, p. 55 (nutrient impacts on water).....	1	-	1	1	-	-	-	1	1	1		1	1	1	1	1	1	-	-	-	
• It's Sedimentary, My Dear Watson, p. 69 (sediment).....	1	-	1	-	-	-	-	1	-	1		1	1	1	1	-	1	-	-	-	
• Breathtaking, p. 81 (test dissolved oxygen, nutrients)....	-	1	-	-	-	-	1	-	1	1		1	1	1	1	1	-	-	-	-	
• Wasted Waters, p. 93 (test for bacterial pollutants).....	1	-	1	-	-	-	-	-	-	1		1	1	1	1	-	1	-	-	-	
• Slip Slidin' Away, p. 101 (erosion causes & prevention)	1	-	-	-	-	-	-	1	-	1		1	1	-	1	1	1	1	2	-	
• All Messed Up & Noplace to Go , p. 115 (map runoff).	1	1	-	-	-	-	-	-	1	1		1	1	-	1	1	1	-	2	2	
• Mined Over Water, p. 125 (mining impact on water )....	1	1	-	-	-	-	-	1	1	1		1	1	1	1	1	1	-	-	-	
• R. I. P. Rain, p. 131 (acid rain impact demonstration)....	1	-	1	-	-	-	-	-	-	1		1	1	1	1	1	1	1	-	-	
• Lethal Lot, p. 139 (bioassay determine runoff toxicity).	1	1	1	-	-	-	-	-	-	1		1	-	-	-	-	-	-	-	-	
• Home Is Where the Hazard Is, p. 151 (chemical use).....	1	1	-	-	-	-	-	-	-	1		1	1	1	1	1	1	-	-	-	
• The Grass Is Always Cleaner, p. 167 (land use, erosion)	1	1	-	-	-	-	-	1	-	1		1	1	1	1	1	1	-	-	-	
• Eee-Aye-E.I.S., p. 179 (agricultural best practices).....	1	1	-	-	-	-	-	1	-	1		1	1	1	1	1	1	-	-	-	
<i>Project WET</i>																					
• Color Me a Watershed, p. 223 (development impacts)...	1	1	-	-	-	-	-	-	1	1											
• Water Court, p. 413 (simulate resolve water disputes)...	1	1	-	-	-	-	-	-	-	1											
<i>The Water Sourcebook</i>																					
• Keep Our Community Beautiful! p. 1-125 (public ed.)..	-	-	-	-	-	1	-	-	-	1											
• Risk Assessment..., p. 1-133 (simulate issue).....	-	-	-	-	-	-	-	-	-	1											
• Uncle Sam Says, "Keep It Clean!" p. 1-171 (promote)..	1	-	-	-	-	-	-	-	-	1											
• Water Chemistry Checkup, p. 1-185 (test water quality).	-	-	1	-	-	-	-	-	-	1											
• Source Water Protection, p. 2-33 (source tap water).....	1	1	-	-	-	-	-	-	-	1											
• How... Detect. Limits Set for Water Pollutants? p. 2-55.	1	-	1	-	-	-	-	-	-	1											
• What Is In Source Water? p. 2-65 (bio. water test.).....	-	-	1	-	-	-	-	-	-	1											
• Storm Water: Best Management... p. 2-123 (runoff).....	1	1	-	-	-	-	-	-	1	1											
• Catch Me...: 2 Way to Measure Stream Flow, p. 3-7.....	-	1	1	-	-	-	-	-	-	1											
• Biodiversity = Water Quality, p. 3-29 (biological test)..	1	-	1	-	-	1	-	-	-	1											
• Pollutants: How Much Total or... Per Unit...? p. 3-53.....	-	-	1	1	-	-	-	-	-	1											
• What Are Fecal Coliforms... How... Relate...? p. 3-63...	-	-	1	-	-	-	-	-	-	1											
• Turbidity, p. 3-71 (measure and effects of turbidity).....	-	-	1	-	-	-	-	-	-	1											
• Thermal Pollution, p. 3-89 (measure temp. and DO).....	-	-	1	-	-	-	-	-	-	1											
• Wetlands USA, More Than Swamps! p. 5-25 (model)...	1	1	1	-	-	1	-	-	-	1											