

TABLE OF CONTENTS

Contents and Quick Setup	iii
Organization of This Guide	1
Evaluation Methods	3
Related Activities	5
Facilitator’s Role	7
<u>DEMONSTRATION 1:</u>	
HOW WATER POLLUTION OCCURS	9
Summary of Steps	9
Location Key — Diagram A	10
Step 1: Prepare the Model	11
Step 2: Check Your Audience’s Awareness	12
Step 3: Discuss the Watershed	12
Step 4: Discuss Sources of Water Pollution	13
Step 5: Demonstrate Point Source Pollution	14
Activity 1: Industrial Plant	14
Activity 2: Sewage Treatment Plant	15
Activity 3: Stormwater Drain	16
Step 6: Discuss Nonpoint Source Pollution	17
Step 7: Demonstrate Stormwater Runoff & Nonpoint Source Pollution	18
Step 8: Discuss What Happens When it Rains	19
Step 9: Demonstrate Turbidity	25
Step 10: Discuss Home Activities that Contribute to Stormwater Runoff and NPS Pollution	26
Optional NPS Activity: Wind Erosion	28
Step 11: Storm Drains	29
Step 12: Summary Review	30

CONTENTS

DEMONSTRATION 2:

PREVENTING WATER POLLUTION	33
Facilitator’s Note	33
Summary of Steps	33
Location Key — Diagram B	34
Step 1: Prepare the Model	35
Step 2: Check Your Audience’s Awareness	35
Step 3: Prepare and Place Best Management Practices (BMPs)	36
Step 4: Add Ingredients to the Model	37
Step 5: Demonstrate Water Pollution Prevention using BMPs	38
Activity 1: Construction Site	38
Activity 2: Streambanks/Lake Shore	39
Activity 3: Forest	40
Activity 4: Farm Area	41
Activity 5: Driveways, Roads and Parking Lots	42
Activity 6: Cows and Other Domestic Animals	44
Activity 7: Manure Containment	44
Activity 8: Lawns and Golf Course	45
Activity 9: Household Activities	46
Optional Activity 1: Terraces	48
Optional Activity 2: Mulch on Plowed Field	48
Optional Activity 3: Storm Drain Stencils	49
Optional Activity 4: Point Source Prevention	49
Step 6: Summary Discussion	50
Clean Up	51
Glossary of Terms	53

SPECIAL NOTE: It is not the intent of EnviroScape® to single out any industry or area as a contributor to water pollution, but to create awareness of nonpoint source pollution as a whole.