



2025-2026 K-12 Educational Programs

Program Overview

Education is a huge part of what we do here at ASWCD! These lessons are designed to help students learn about environmental stewardship and how they can make a difference in their own county!

Our Education and Outreach Coordinator is available to present classroom conservation programs for schools and youth groups on a limited basis. We are certified to teach all curriculum from Project WILD, Project WET, and Project Learning Tree. Please email Ann Marie Pauley (annmarie.pauley@andersonswcd.org) if you are interested in one of our programs during the Fall 2025 - Spring 2026 school year!

Program Guidelines

- Programs are typically presented to one class at a time (**max 25 students**) with up to 3 presentations/classes at the same school per day.
- Let us know if you have an outdoor classroom! We would love to use this space, but it is not required.
- Most programs are **30-60 minutes** but depend on the topic.
- Please contact us ASAP to schedule a program, as our Educator's calendar fills up quickly.
- These programs are **FREE** with no cost to the school or youth groups!

Contact Us

Ann Marie Pauley, Education & Outreach Coordinator

Email: annmarie.pauley@andersonswcd.org

Phone: (864) 844 - 8224

Anderson County Soil and Water Conservation District
1521 Pearman Dairy Road
Anderson, SC 29625

Water-Related Programs

Blue Planet (Project WET)

Time: 30 - 45 min

Students will estimate the percentage of the Earth's surface that is covered in water and, by tossing an inflatable globe, take a simple probability sample to check their estimates. Students may also discuss how long water molecules stay in different locations.

Earth's Water: A Drop in Your Cup (adapted from Project WET)

Time: 10 - 30 min

Students estimate the percentage of Earth's surface that is covered by water by tossing an inflatable globe. Using graduated cylinders, students will separate the Earth's water into several different forms: ice, groundwater, lakes, swamps, rivers, and ocean. Students will discuss ways that we use water and ways that we can conserve available freshwater.

The Incredible Journey (Project WET)

Time: 30 - 45 min

With the roll of a cube, students will simulate the movement of water within the water cycle. Students will become water drops and travel around the classroom to learn the water cycle, and they will create a water bracelet out of beads

The Life Box (Project WET)

Time: 30 - 45 min

Through a thought-provoking activity, students discover four essential, interdependent factors needed to sustain life.

Macro Dress Up (Abbeville 4-H)

Time: 30 - 45 min

At least four students (depending on time availability) will get to dress up as macroinvertebrates as the class discusses various adaptations that macroinvertebrates have. Some adaptation examples include tails, gills, and breathing tubes.

Sum of the Parts (Project WET)

Time: 45 - 60 min

Students will demonstrate how everyone contributes to the pollution of a river as it flows through a watershed and recognize that through individual and group action, the amount of pollution can be reduced.

Water-Related Programs (continued)

Stream Health: An Introduction to Adopt-A-Stream

Time: 60 min

The SC Adopt-a-Stream program is led by the SC Department of Environmental Services. Our Education and Outreach Coordinator will share information on what SC Adopt-A-Stream is, how students can get involved in their own neighborhood, and even take students outside to do a sample stream test (or a mock one in the classroom). This lesson can be tailored to what your class would like to learn. We can focus on bacterial/chemical monitoring, or macroinvertebrate monitoring.

Soil-Related Programs

What is Soil? (GSWCD)

Time: 30 min

Students will learn what soil is and its composition (sand, silt and clay). Students will become soil scientists and place soil in jars with water and watch it separate into different layers.

Going, Going, Gone

Time: 30 min

Students will hypothesize whether vegetative cover affects the amount of soil eroded. We will conduct a simulation of wind and water erosion on soil with varying levels of vegetative cover. Students will discuss the importance of stabilizing soil with vegetation to prevent erosion.

Enviroscape

Enviroscape Table

Time: 45 - 60 min

Students learn about the importance of keeping our waters clean and our storm drains clean. Topics such as point and nonpoint source pollution will be covered. See attached flyer for more details.

Agriculture & Natural Resource Careers

Careers in Ag & Soil/Water Conservation

Time: 30 - 45 min

Identify careers in Agriculture and Soil/Water Conservation. Discuss duties and responsibilities related to these careers. List the training needed for these careers and talk about different colleges or workplaces that offer pathways in these subject areas.

Wildlife-Related Programs

Web of Life (adapted from PLT)

Time: 45 - 60 min

Students will discuss food chains, food webs, predators, and prey. They will participate in a model to learn how organisms are interconnected and depend on one another in an ecosystem. Depending on time, students may get to research different organisms and present their findings to the group in our web model.

Adaptation Artistry (Project WILD)

Time: 45 min

Students will learn about several adaptations that birds have (e.g. curved versus pouch-like beaks, webbed versus clawed feet) that help them to survive in their habitat. Students will design imaginary birds and present to the class based on chosen adaptations.

Color Crazy (Project WILD)

Time: 30 - 45 min

Students will discuss color-related adaptations of wildlife such as concealing coloration. Disruptive coloration, disguise, mimicry, aposematism, and countershading. Students will create an organism using materials found in nature and will be given the opportunity to share about their organism and its adaptations to its habitat.

Quick-Frozen Critters (Project WILD)

Time: 30 - 45 min

Students play an active game similar to Freeze Tag and Sharks and Minnows. Students will discuss predator-prey interactions, adaptations, and limiting factors in a habitat.

Thicket Game (Project WILD)

Time: 30 min

Students play an active game similar to Hide and Seek. Students will discuss adaptations, specifically camouflage, and predator-prey interactions.

Plants & Forestry Programs

Friends of the Forest

Time: 20 - 30 min

Students will learn about forest stewardship and how they can be friends of the forest. Children will know that the forest is made up of many different working parts, discover that forest stewardship is responsible use of the forest and will realize they can make a difference too!

Making Paper (SCFC)

Time: 30 - 45 min

Students will discuss the need for recycling. They will learn how paper is made, both from virgin fiber and from recycled paper and will recycle tissue paper into new paper.

Tree ID (PLT)

Time: 60 min

Students will describe leaf shapes, sizes, and other characteristics and identify several trees common to SC.

*An outside setting is preferable for this lesson, but our educator can bring tree samples if an outdoor setting is unavailable.

Trees & Tree Cookies (adapted from PLT)

Time: 30 - 45 min

Students will learn about parts of a tree, tree rings and tree growth. Students will get to decorate a tree cookie ornament.

If you have other topics your class is focusing on, we are happy to create a program that is tailored to your lessons. Just let us know ahead of time!



Watershed Education Tools

Hands-on learning tools
that connect what we do
on land to what happens
in our rivers, our lakes,
our oceans and even our
groundwater.



EnviroScape® makes
complex issues much
clearer and helps people
see how to prevent
water pollution in their
own communities.

EnviroScape® makes
the connection —
whether you are 5 or 85!

EnviroScape® units available:

- ◆ Watershed/Nonpoint Source
- ◆ Coastal
- ◆ Drinking Water & Wastewater
- ◆ Waste Management
(Landfill & Recycling)
- ◆ Wetlands
- ◆ Hazardous Materials and Waste
- ◆ Riparian Kit ◆ Groundwater Kit

www.enviroscapecom.com
for tips, full color pictures, newsletter, and more!



EnviroScape® Watershed/Nonpoint Source

We all live in a watershed, with water pollution coming from many sources.

EnviroScape® Watershed/Nonpoint Source shows pollution from nonpoint sources, such as

- Residential areas
- Forestry
- Transportation
- Recreation
- Agriculture
- Construction
- Storm drains

And point sources such as

- Industry

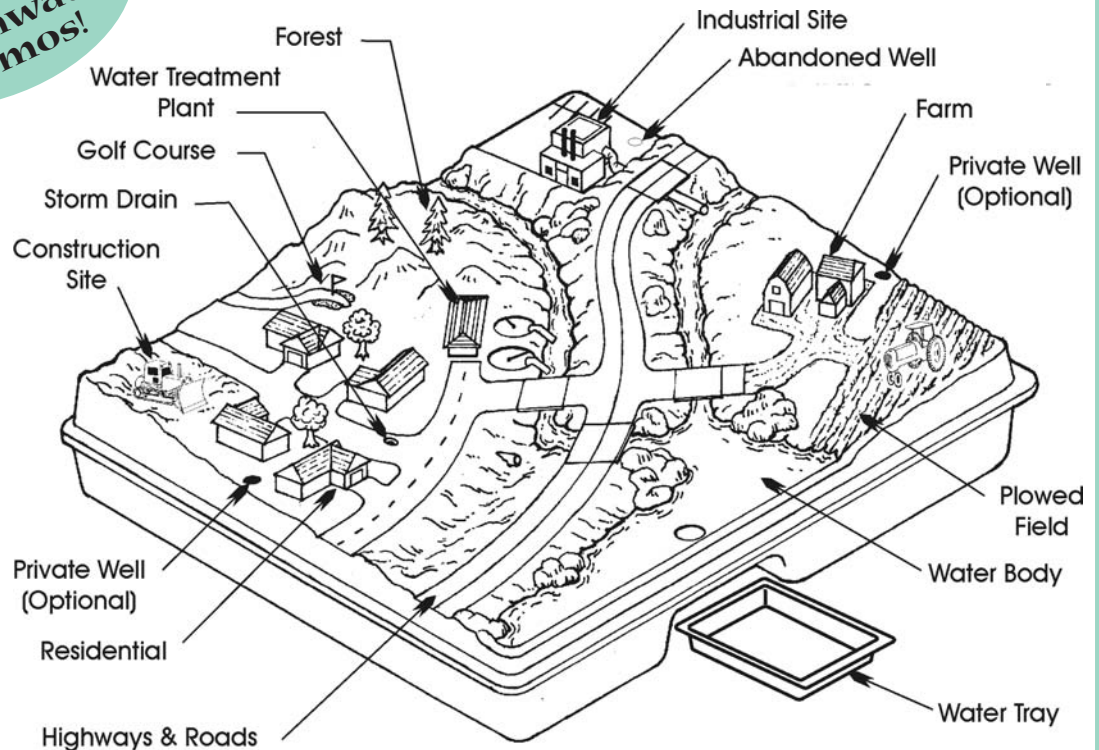
Pollution and runoff are visually apparent when rain carries soil (cocoa), chemicals (colored drink mixes) and oil (cocoa and water mixture) through the watershed to a pond, lake, river or ocean.

It also shows prevention — best management practices include felt buffer strips as vegetation, clay to create berms and other methods to show conservation and water pollution prevention measures at work.

ITEM # **EnviroScape® Product**
71005C EnviroScape® Nonpoint Source



Great Stormwater demos!



Abandoned and private wells are for use with Groundwater Kit (optional)

CONTENTS: Watershed/Nonpoint Source topographical map (top), clear base, houses, barn, factory, storm drain pipe, treatment plant, trees, golf flags, cows, cars and best management practices such as buffer strips, clay berms, manure container, soil, oils and chemicals (cocoa, drink mixes and oil mix), bridges, watercatcher, rainmaker, water plug and User's Guide.

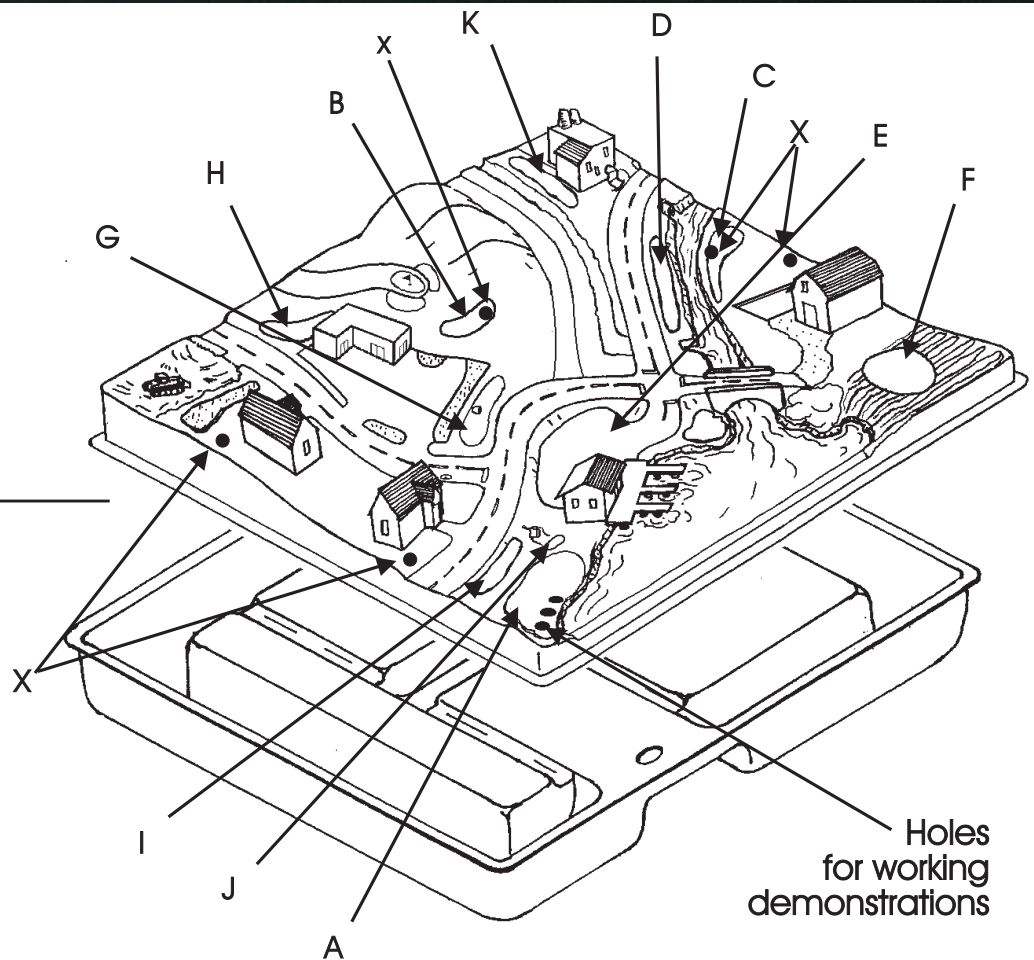
DIMENSIONS: approximately 25" x 30" x 5"

EnviroScape® Wetlands

EnviroScape® Wetlands demonstrates the basic functions and values of inland and coastal wetlands.

Learn how to recognize different types of wetlands, understand what activities negatively affect wetlands and what activities can help to conserve wetlands.

See how constructed wetlands can help us better manage what we do on the land.



- A** shoreline marsh
- B** forested wetland
- C** riverine wetland by forest
- D** riverine wetland by farm
- E** marina site wetland
- F** field with drainage /wetland
- G** constructed wetland below mall
- H** constructed wetland above mall
- I** constructed wetland below residences
- J** constructed wetland by storm pipe

Holes
for working
demonstrations

CONTENTS: Wetlands topographical map (top), clear base, shopping center, parking lot, marina and boat slips, rainmaker (spray bottle), assorted wetlands (sponges and felt strips), plant roots (cotton swabs), measuring cup, User's Guide, houses and other buildings, bridges, watercatcher, trees, golf flags, cocoa, oil, drink mixes, cows, vehicles, and storm drain pipe.

DIMENSIONS: approximately 25" x 30" x 5"

ITEM # **EnviroScape®Product**
71005CW EnviroScape®Wetlands

JT&A, inc. ♦ (703) 631-8810
www.enviroscapecom.com



Patent No. 5,427,530
info@enviroscapecom.com

EnviroScape® Coastal

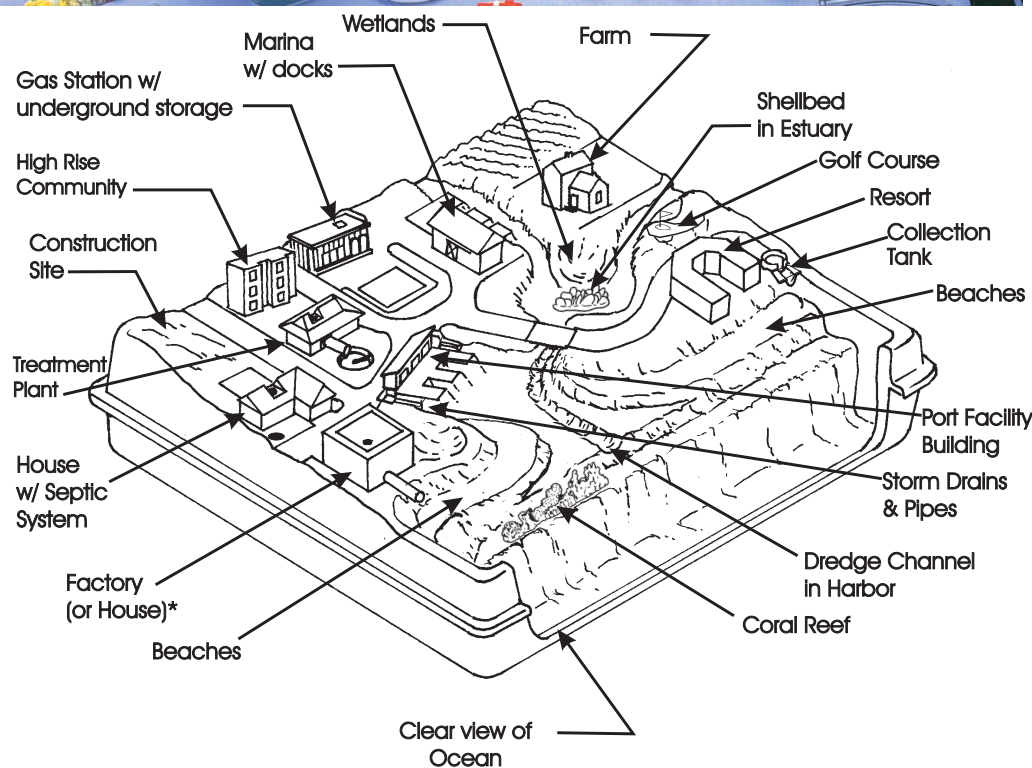
EnviroScape® Coastal

demonstrates point and nonpoint sources of pollution — and the effects of both on our coastal areas.

The front of the model remains clear for a view of the ocean. EnviroScape® Coastal demonstrates sources of water pollution — and its prevention — such as . . .

- Nonpoint sources from many different areas in a community
- Marine debris
- Oil spills
- Industrial & treatment plants
- Underground storage tanks
- Septic systems

It demonstrates point sources *and* nonpoint sources of pollution — and the effects on wetlands, estuaries, the ocean, beaches, barrier islands, groundwater, and even coral reefs and shellfish beds.



CONTENTS: Coastal topographical map (top), clear base, resort building, high-rise/urban building, house, marina, gas station, treatment facility, farm house, port facility, coral reef, shellfish bed, bridge, septic tank, manure containment structure, collection site at resort, underground storage tanks, wetlands and grass strips, sand, marine debris, tractor, car, trees, buoys, boats, golf flag, wells w/pumps, oils and chemicals (cocoa, drink mixes and oil mix), water plug, and User's Guide.

DIMENSIONS: approximately 25" x 30" x 5"

ITEM # EnviroScape® Product
71005CW EnviroScape® Coastal

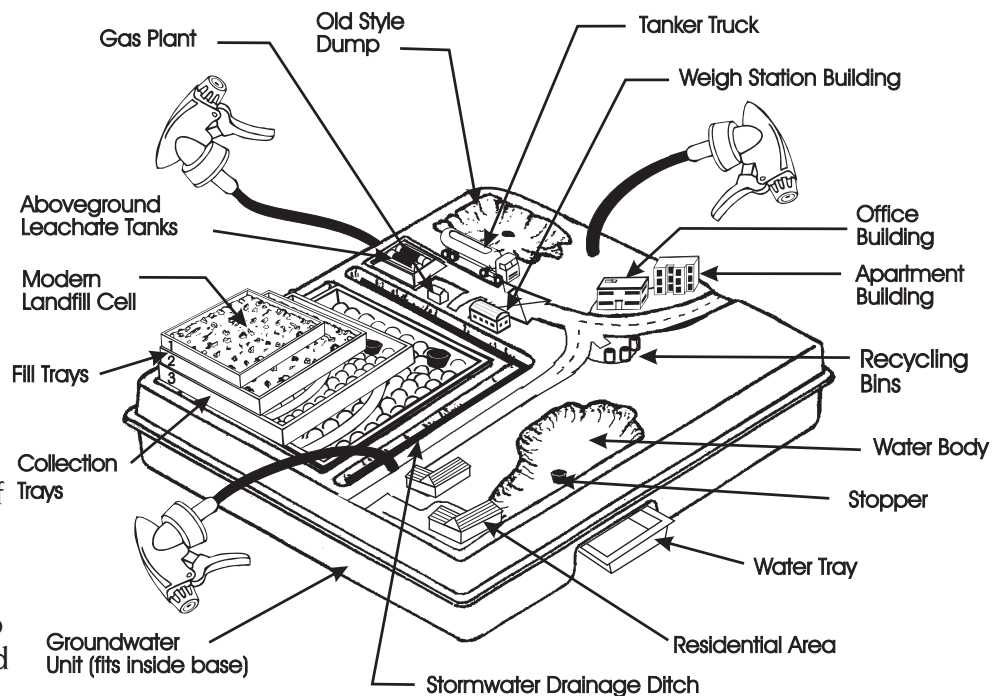
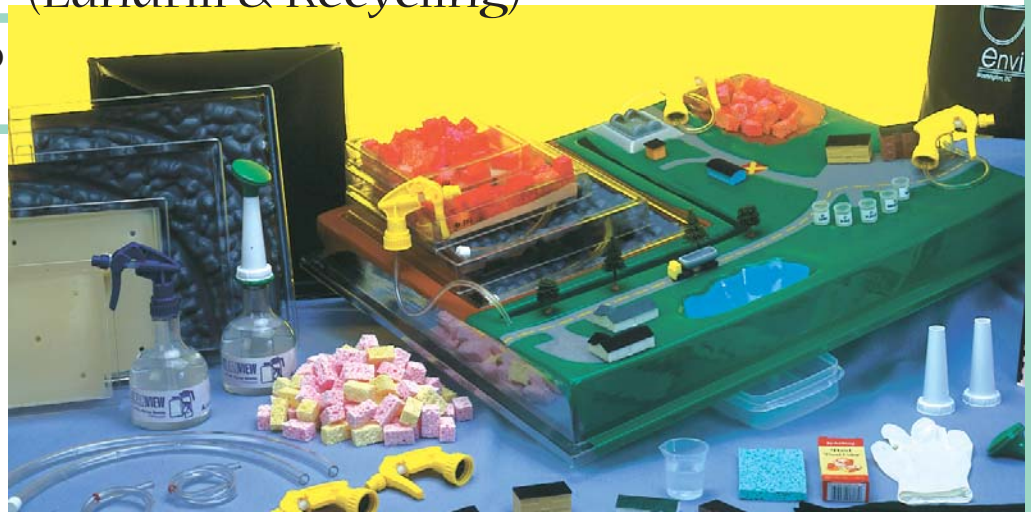
EnviroScape® Waste Management (Landfill & Recycling)

Where Does the Waste Go In Your Community?

EnviroScape® Waste Management demonstrates and addresses this question and more. Learn about

- A functioning modern landfill operation, including leachate collection and management
- Recycling activities, including labeled recycling bins
- Composting, including a mini-composting extension activity
- Illegal dumping and Litter Prevention
- Groundwater monitoring and protection
- Unlined landfills ("dumps") of the past
- How landfills and communities work together to protect our drinking water and our recreational waterbodies

Even includes a scrumptious "Luscious Layered Landfill" activity! Also included are suggested related activities on how to get more information on landfills in your community, lesson plan outline, and a quiz.



CONTENTS: Waste Management topographical map (top), clear base, groundwater liner insert, trays that represent main and back-up liners and collection systems, trays that represent layers or lifts of trash, pumps and tubes to illustrate leachate collection systems, sponge pieces to represent trash, impermeable and permeable caps, tanker truck, leachate storage tank cover, trees, watercatcher, apartment and office buildings, weigh station, gas plant, houses, recycling bins with labels, spray bottles (rainmakers), felt strips (for storm drainage ditches), rubber gloves, sponge, sample liner material and User's Guide.

DIMENSIONS: approximately 25" x 30" x 5"

ITEM # 71005CL **EnviroScape® Product**
EnviroScape® Waste Management
with groundwater liner

EnviroScape® Hazardous

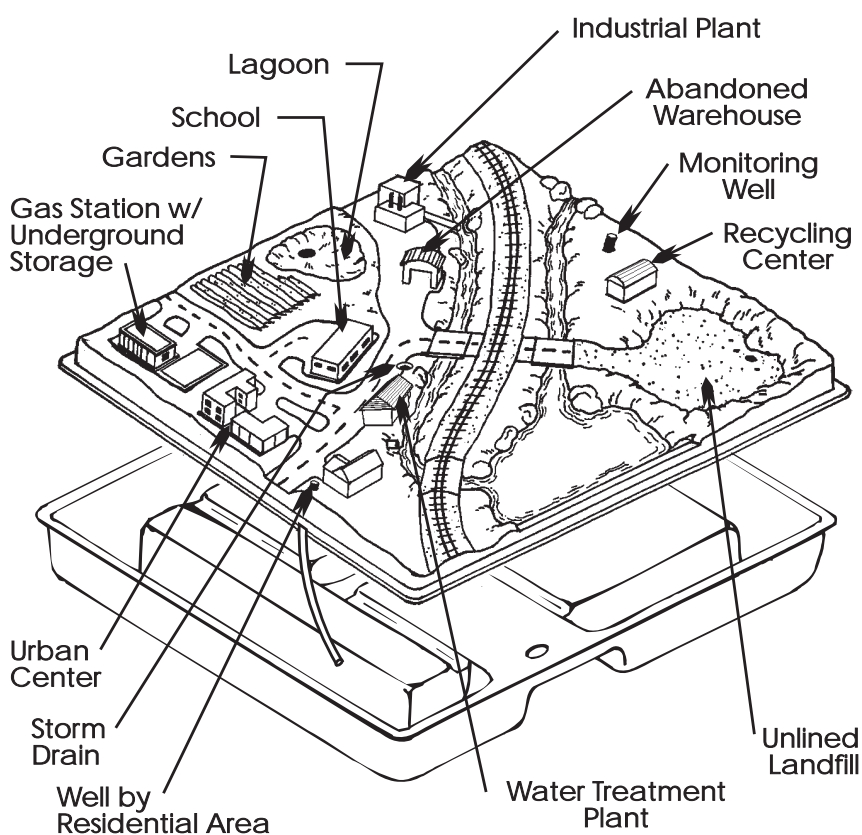
What happens when hazardous materials are improperly discharged, disposed or accidentally spilled on land?



EnviroScape® Hazardous provides demonstrations and activities on potential sources of pollution, *proper use and disposal, clean-up, restoration, and prevention of pollution* from hazardous materials and waste. Also addresses environmental and health risks associated with contamination. Some areas addressed on the model include...

- At home
- Underground storage tanks
- Commercial facilities
- Transportation accidents
- Older, unlined landfills
- Abandoned sites and
- Groundwater contamination and clean-up

Filled with activities, it even let's you restore an abandoned site to a soccer field!



Includes activities to show proper use, collection and disposal of hazardous materials.

CONTENTS: Hazardous materials topographical map (top), clear base, schoolhouse, gas station, warehouse, recycling building, apartment building, office, building, concrete cement slab, landfill cap, gas piping, lagoon liner, assorted buffer strips, barrels, baseball diamond, train and semitrailer truck, wells, storage tanks, trash, monitoring pipe, flashlight, houses, factory, treatment plant, bridges, watercatcher, trees, cocoa, oil, drink mixes and User's Guide.

DIMENSIONS: approximately 25" x 30" x 5"

ITEM # EnviroScape® Product
71005CH EnviroScape® Hazardous Materials

IT'S ARRIVED!

EnviroScape®'s Drinking Water & Wastewater Treatment Model

• JT&A, inc., Patent No. 8,043,094 and 5,427,530 •

• Lift away roads to see water delivery, wastewater flow, and stormwater pipes!

• Lift buildings to see water treatment and wastewater treatment processes!



• Includes full color groundwater graphic and working rural well!

Includes three demonstrations that can be done individually or together as a unit —

- *Drinking Water Sources and Treatment* — shows where drinking water (residential and commercial, rural and urban) comes from and how it is delivered to us;
- *Wastewater Treatment* — shows what happens to water and waste after we use it (how sewage/wastewater is treated)
- What *biosolids* are and how they are being used or disposed.

Consists of a colored landscape map that sits on a clear base with color-coded channels, or “pipes”, that run under removable road sections.

Follow the path of water we use in our communities . . .

- from the river to the water treatment plant
- from the treatment plant to the water tower or reservoir
- from the water tower to the houses and city buildings
- from use in the houses and city to the wastewater treatment plant
- and from wastewater treatment back into the river

Also includes:

- Working septic system and rural water sources
- Stormwater discharged directly to a waterbody OR sent on to the wastewater treatment plant; and demonstration of a combined sewer overflow
- Groundwater & much more!

www.enviroscapecom.com

or contact Erin Foster at (703) 631-8810 ext. 12, learn@enviroscapecom.com

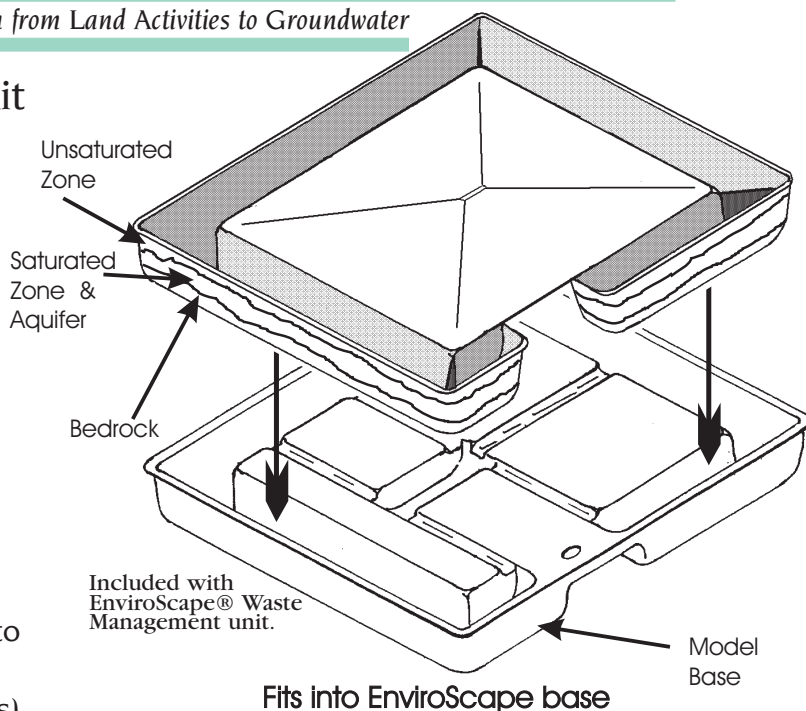
EnviroScape® Groundwater Kit

Helps Make the Connection from Land Activities to Groundwater

The EnviroScape® Groundwater Kit demonstrates how groundwater works, how we use groundwater, how we pollute groundwater and how we can prevent and clean up groundwater contamination.

It covers the basic concepts and is not intended for use as a highly technical demonstration.

The kit includes a plastic liner with a silk-screened depiction of unsaturated/saturated soils, aquifer and bedrock layers that inserts into the EnviroScape® clear base — plus private wells and pumps (clear tubing and spray pumps), an abandoned well, marker for new measuring activities, and User's Guide.



71005G EnviroScape® Groundwater Kit

EnviroScape® Riparian Kit

The EnviroScape Riparian Kit shows the benefits of riparian buffers — areas including trees and other vegetation adjacent to the banks of streams, rivers and lakes.

The kit explores the positive effects of good riparian buffers as well as activities that contribute to poor riparian buffer zones. Positive effects include cooler water temperatures and shading for in-stream organisms (canopy cover); reduced volume and rate of flooding (water infiltration); food sources for in-stream organisms (protective habitat); streambank stabilization (erosion control); sediment trapping and nutrient removal (plant root systems); and recreational corridors.

Kit contains components for a complete demonstration of how riparian buffers affect water quality,



quantity and flow. Each kit contains 40 trees (20 round and 20 tall), shrubs, clay, assorted roots (cotton swabs), flashlight and User's Guide. Designed for the EnviroScape Wetland model, but may be used with all scenarios with some modification to the demonstration.

71005RIP EnviroScape® Riparian Kit