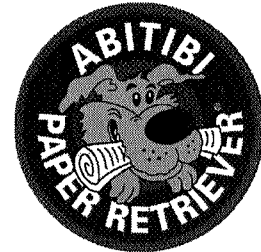




# Abitibi Paper Retriever® Recycling Scorecard Monthly Activity

From 09/01/08 To 09/30/08



**Bin Sponsor Account Information:**

**BELLOWS SPRING ELEMENTARY SCHOOL**  
8125 OLD STOCKBRIDGE ROAD  
ELLCOTT CITY MD 21043 US

**Bin Location:**

**BELLOWS SPRING ELEMENTARY SCHOOL**  
8125 OLD STOCKBRIDGE ROAD  
ELLCOTT CITY MD 21043 US

Recycling Coordinator :

Fax: 410 313-5060

Electronic Address: ecosentino@hcpps.org

Supplier # 100831

Paper Type Commodity	Pick-Up Date	Short Tons	Equivalent Pounds	Amount	\$ / Ton
OLD NEWS PAPER	09/10/08	1.095	2189.140	5.47	
<b>Total</b>				5.47	
<b>Less Service Fee's</b>					
<b>Net Balance</b>		1.095	2189.140	5.47	5.00\$

<b>Check Minimum</b>	15.00
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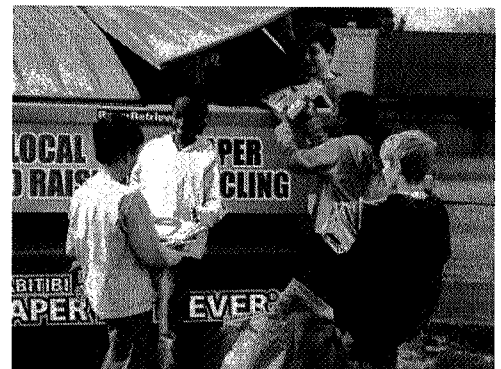
A Check will be issued when your account accumulates a minimum of \$ 15.00 (Current Month plus prior months)

**Accomplishments & Satisfying Statistics:**

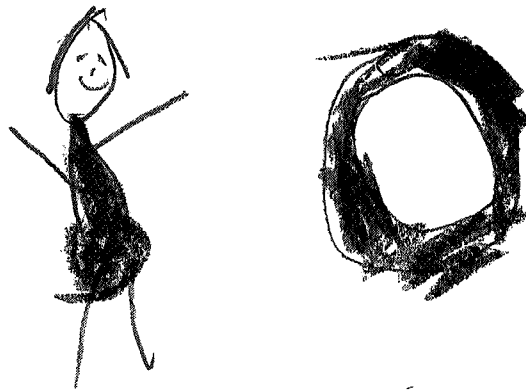
<u>Current Year to Date</u>	<u>Last Year to Date Same Period</u>	<u>Total Prior Year</u>
* 2.680 tons recycled YTD vs.	4.357 tons recycled LYTD.	5.902 tons recycled for full year last year.
* \$13.40 earned YTD vs.	\$21.78 earned LYTD.	\$29.51 earned for full year last year.
* 18 cubic yards of landfill space saved YTD vs.	29 LYTD.	39 Cubic yards for full year last year.
* 10,994 KWH Energy saved YTD vs.	17,870 LYTD.	24,212 for full year last year.

**Local Contact Information For Abitibi Paper Retriever®:**

BALTIMORE\_CENTER at 410- 558-1704 . We can help with tools and ideas on how to grow your tons recovered and recycle more paper - call us !



Name Megan



I can reuse.

I can reuse a

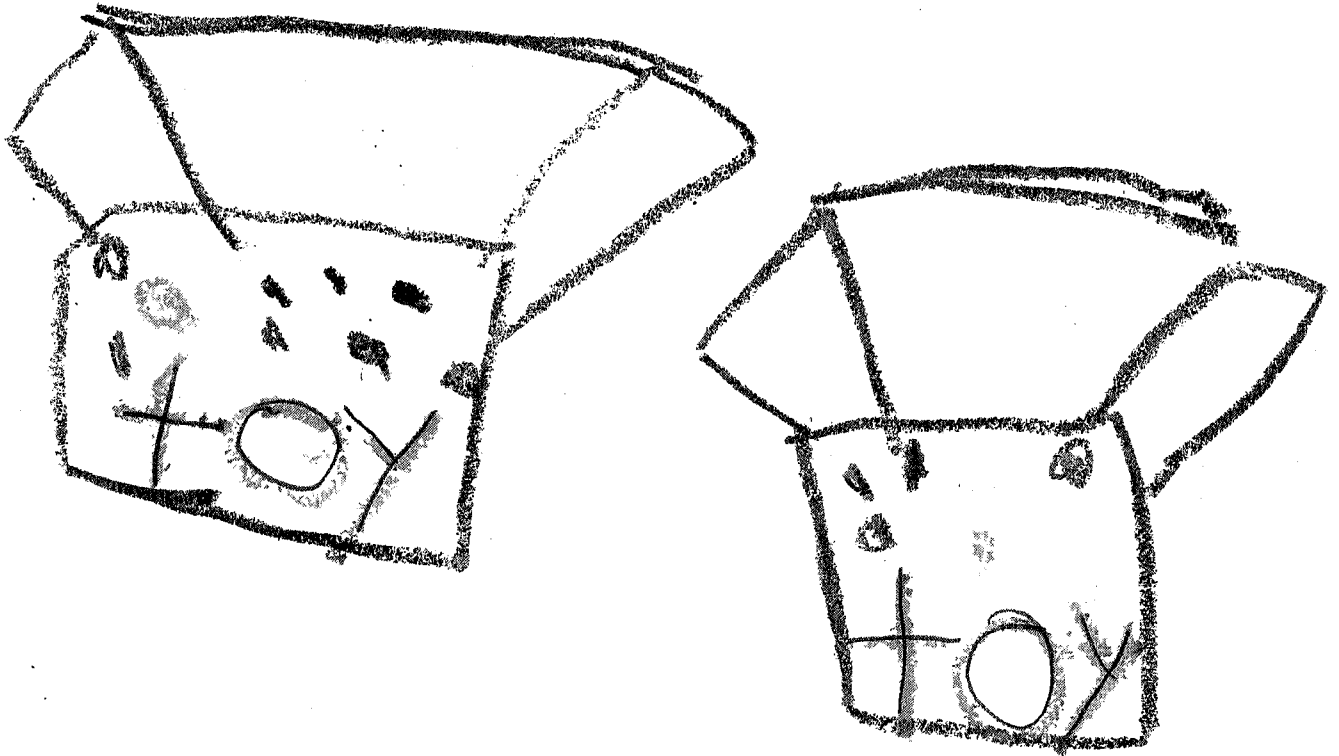
tap dispenser for a toy  
take dispenser for a toy

reduce

recycle

reuse

Name Sachi



I can recycle.

I could use

boxes for toy.

boxes.  
reduce

recycle

reuse

Name Natalia



I can recycle.

I Put a BOTTLE in

the BIN.

reduce

recycle

reuse

Luke Mason

Luke  
Mason



My house has lots of trees.

My house has energy efficient

light bulbs. My house is

cool. My house has no chimneys.

I don't want anyone to harm my.

# How Does an Aquifer Work?

## Work?

? What happens to rain?

### Procedure:

1. Build a model aquifer in the plastic container with the drainage holes. Use the rocks, gravel, sand, and dirt to fill in each layer.
2. Place your model in a larger clear tank.
3. Add groundwater by filling a shaker container with water and creating "rain" on your model.
4. Pour off and measure the rain water that drained through your aquifer.

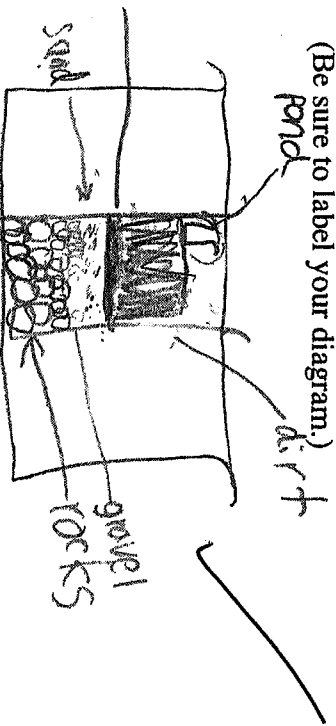
### Definition:

Aquifer:

A place underground where water is stored

### Diagram of your aquifer:

(Be sure to label your diagram.)



Name Kerry Tran 10/22/09

10/10

Conclusion: What did you notice about the amount of water that drained through your model compared to the amount of rain that fell? How can water be stored in an aquifer?

We use a lot of rain water where is it?

1 Drained through

2 some went off into pond

3 stuck in the rocks/sand/gravel dirt

Which water had less pollution - pond? Soak in water?

# Buffers

How can "run-off" harm a pond or stream.

**Procedure:**

1. Create a model of a watershed in a large aluminum pan. Use crumpled paper to create interesting formations underwater and then cover it with one piece of aluminum foil.
2. Add water to your watershed to create your "Bay".
3. Put various pollutants on different parts of your watershed. Make it "rain" and watch the movement of the pollutants.
4. Reset your model, this time using different materials to try to block the flow of pollutants.
5. Make it "rain" and observe differences.

**Vocabulary:**

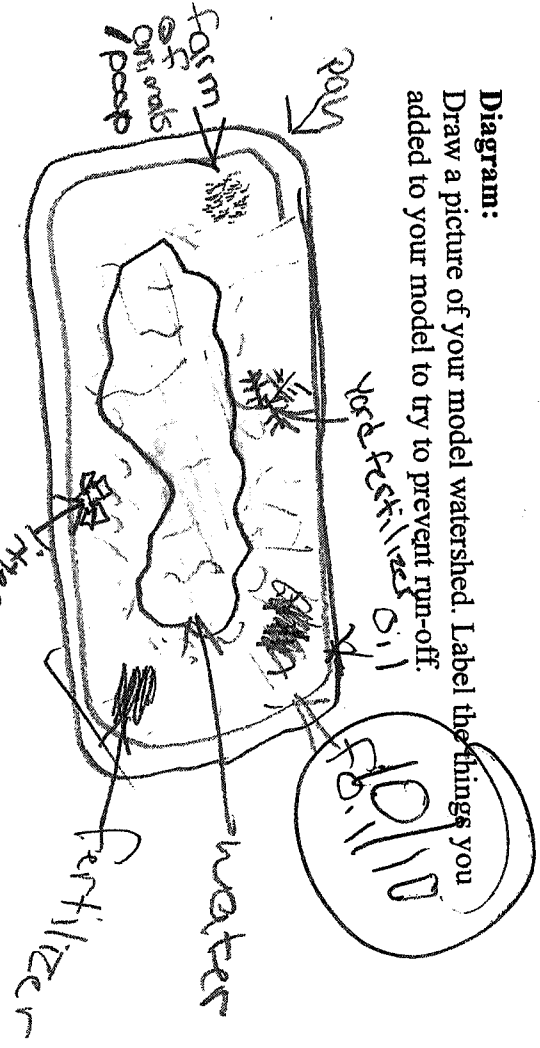
**Sediment:**

dirt that gets in water

**Buffer:**

anything that blocks run-off from getting into the bay.

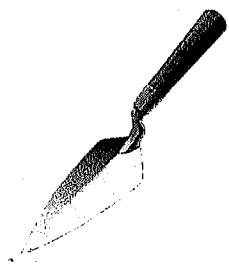
**Diagram:**  
 Draw a picture of your model watershed. Label the things you added to your model to try to prevent run-off.



**Conclusion:** Tell about how your model of the buffers showed reduced pollution in your body of water. What things in the real world act as buffers for streams and rivers?

run-off can hurt a body of water by polluting it and can kill animals living in the water. Buffers can help by soaking up most of the water and can kind of stop run-off but not as well. Examples of buffers are: Trees, tall grass, mulch.

Name: Jada Sanders









## Digging up the Facts

Archaeologists dig up artifacts to piece the past together and learn about people who have lived before us.







Artifacts can either last forever or they **biodegrade** which means they dissolve over time in the ground.

Work with your group to come up with some examples of both types of artifacts.

### Lasting Artifacts

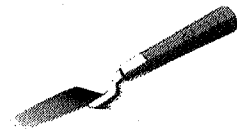
- trash can 
  - wire 
  - fork 
  - spoon 
  - paperclip 
- 

### Biodegradable Artifacts

- chalk 
- box 
- Rake 
- Stuffed Animals 
- paper 
- bottle 
- News paper



Name: Andrew Qian



## The Big Dig

We have talked about artifacts that are biodegradable and long lasting. Let's put it to the test. What will happen if bury some artifacts and water them everyday for 3 weeks? Make some predictions about what the artifacts will look like when we dig them back up.

### Predictions

3 Weeks Later

Item One crayon

I + will start to melt I also think the paper around it will disintegrate

The paper got ripped

Item Two plastic

The plastic won't dissolve but it might break

it stayed the same

Item Three yarn

The yarn might break into pieces but it won't dissolve

It got darker and longer

Item Four paper clip

I + might bend but won't dissolve

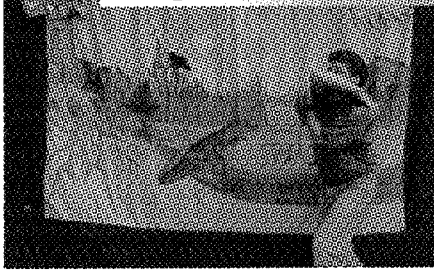
It got rusted

# "When Billy B. sings, children listen."

- Knoxville News-Sentinel -

Billy B. and his audience sing, dance and laugh their way to a better understanding of the subjects presented in these shows....

## Romp in the Swamp



Billy B. explains predator / prey relationships in wetlands. The food chain becomes easy to understand and just plain fun.

## Rhythm and Roots



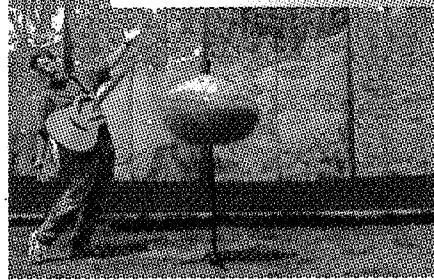
Billy B. brings to life such important topics as rain forest and ozone depletion, and the green house effect by parodying popular rock songs. **Middle schools only.**

## Singing Trees



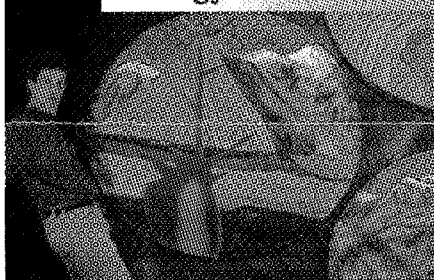
Billy B. explains the physiology of plants from flowers producing seeds to leaves producing food while photosynthesizing.

## Waltz of the World



Why do we have four seasons? What happens to the animals and plants when the seasons change? Billy B. provides the answers as migration, hibernation and adaptation is presented in dance.

## Geology Rocks



The formation, ingredients, rock types and ever-changing surface of our cooling planet are presented in rock rhythms and dance movements.

## Rock Knockin' Native Americans



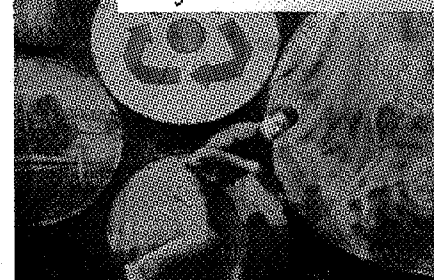
Billy B. demonstrates how pre-Columbus woodland Native Americans used their ingenuity to build wigwams, long houses, make tools, gather, grow and trap their food.

## Rain Forest Chorus



Discover the Brazil nut tree, agouti, and panther as the importance and uniqueness of the rain forest is celebrated.

## Recycle Mania



Billy sings and dances about nature's recycling activities. He then discusses natural resources, landfills and the basic reasons for, and the easy ways to get all people, recycling.

## Ways of the Bay



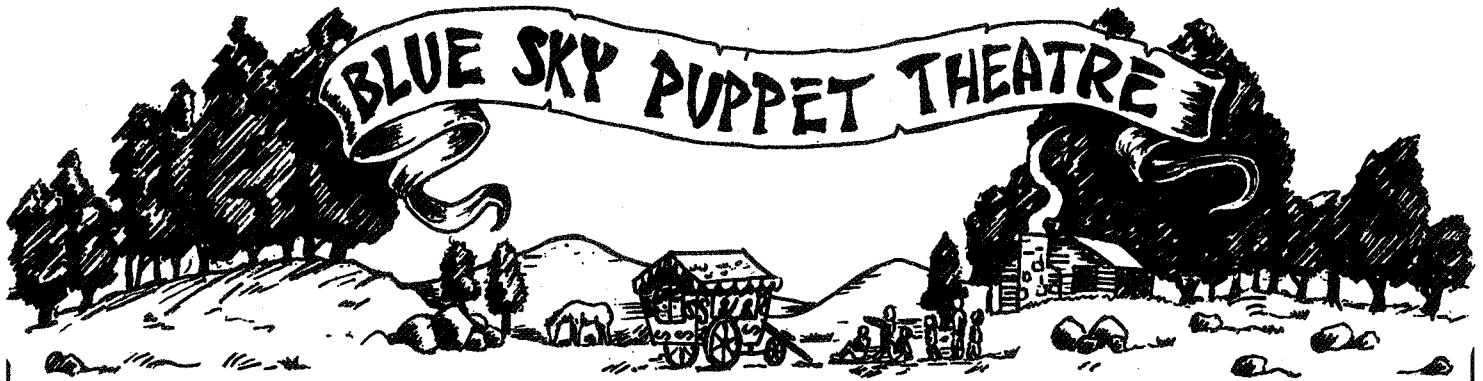
Watersheds, estuaries, erosion, nutrient loading and runoff are among the concepts that Billy B. presents as he reveals the ways of the bay.

## Biodiversity



Billy presents the beauty, abundance and complexity of the biodiversity all around us and in specific habitats worldwide ( coral reefs and old growth forests )

1-800-4BILLY B (424-5592) DC Area 301-588-7525  
for more information... [www.billybproductions.com](http://www.billybproductions.com)



## LIGHTS OUT ON THE BUNNY BROTHERS

- Objectives:**
- Children will conserve energy
  - Children will be able to name natural resources
  - Children will be able to define “conservation”
  - Children will be able to list ways of conserving electricity and water
  - Children will choose to conserve energy and natural resources as a result of experiencing a dramatic theatre presentation using puppets.

“**Lights Out on the Bunny Brothers**” features rod puppets, a costumed actor, and a 14 foot tall puppet representing Mother Nature. The main characters, Sunny, Funny, and Honey Bunny are studying about conservation in school. But Sunny and Funny don’t learn their lesson until Honey tricks them unto thinking they’ve wasted all the electricity and water in the world. The show ends with Sunny and Funny promising to do all they can to help save our electricity and water.

### Suggested Pre-Show Discussion Topics

1. What are “natural resources?” Name some. (water, trees, gas, etc.)
2. What are “energy sources?” Name some. (sun, water, wind, etc.)
3. Tell children about the water shortage which occurred many years ago. Ask them how the water might have been used up or wasted.
4. How can people save or “conserve” water?
5. Tell children about the gasoline shortage which occurred several years ago. Ask them how people might have used or wasted gasoline.
6. How can people conserve gasoline?
7. Remind children that occasionally there are electrical power failures during storms. Discuss what it is like to be without electricity.
8. What would our lives be like without energy or natural resources?
9. Summarize the importance of conservation at home and in school.
10. Discuss the nature of puppets. What kind have you seen? How is a puppet used?
11. Discuss the nature of theatre production. How is a puppet play different from a live play? How is it the same?
12. Discuss the basic elements of a story.

### Pre-Show Activities

1. Read a play or short story, having different students read each part aloud.
2. Read books about puppetry and puppet theatre.
3. Read books about conservation.

**Maryland Green School Workshop  
March 11, 2009 4:30pm – 6:30pm**

**Co-sponsored by the Howard County Conservancy and  
the Howard County Public School System**

**A G E N D A**

**Welcome**

Sheila Welton, Howard County Conservancy  
Karen Learmouth & Amy Reese, Howard County Public School System

**Speakers:**

**Allan Dyer, Howard County Board of Education**

Brief Update on green renovations taking place in the school system

**Robin Rosebrough, HC Bureau of Parks and Program Services &  
Application Reviewer for MAEOE**

Brief overview of MD Green School Application and main elements of the application

**Carolyn Cradler, Science Teacher, Glenelg Country School**

Highlights of Maryland Green School elements at Glenelg and application in a  
powerpoint format

**Working Session on MD Green School Application**

**MAEOE Application Coaches**

Natalie Brewer, Master Gardener  
Carol Brzezinski, GT Teacher, HCPSS  
Carolyn Cradler, Science Teacher, Glenelg  
Karen Learmouth, Science, HCPSS  
Sally Oswald, Teacher, HCPSS  
Amy Reese, Science, HCPSS  
Robin Rosebrough, HC Bureau of Parks  
Sheila Welton, Howard County Conservancy

*April 4th - Green Fest*



HOWARD COUNTY OFFICE OF ENVIRONMENTAL SUSTAINABILITY  
3430 Court House Drive ■ Ellicott City, Maryland 21043 ■ 410-313-2350

Joshua D. Feldmark, Director

[www.howardcountymd.gov](http://www.howardcountymd.gov)  
FAX 410-313-1655  
TDD 410-313-2323

March 20, 2009

Dear Assistant Principle:


As part of our annual GreenFest marketing, we contacted your school to see if you were interested in advertising this County-wide, free event. Enclosed are the posters your school requested for hanging on bulletin boards throughout the school.

GreenFest is taking place on April 4, 2009 from 10:00am – 4:00pm at Howard Community College Burrill Galleria. GreenFest brings together a mixture of environmentally-conscious businesses and organizations to introduce their services to the public and endorse their benefits to the environment.

Your school's involvement supporting the event will be valuable in the opportunities GreenFest provides for students. First, GreenFest houses a hands-on education and a great learning opportunity to give a greater understanding of current green technologies. This event will give students exposure to new technologies and fields that might interest them in future "green careers", while also giving them the chance to explore volunteer and intern opportunities with the variety of organizations and companies present. Additionally, while learning the importance and process of stewardship and concern toward the environment, students will also have the convenience of access to the Howard Community College campus, where they can consider the possibility of continuing their education after high school.

Thus, this event's powerful initiation in spreading environmental concern is worth advocating, and we would love to have your support! Please feel free to include GreenFest information in your announcements, newsletters, or distributions to students and parents. Please hang up the requested posters in visible public areas of the school or share with your environmental club.

Sincerely,

  
Lindsay A. Letterman  
Co-Chair GreenFest  
Office of Environmental Sustainability  
Howard County Government  
3430 Court House Drive  
Ellicott City, MD 21043  
410-313-4374

*Live animals  
children's  
activities*



More information at [www.hcgreenfest.org](http://www.hcgreenfest.org)