

MD Environment

Maryland Department of the Environment

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Concern over water main breaks rises

By Barry O'Brien and Lyn Poorman

As residents in the Georgetown section of Washington, D.C. experienced over the holiday season, water main breaks can make for a wet mess. These breaks can result in the formation of sinkholes, can force street closures, and even destroy the structural integrity of buildings.

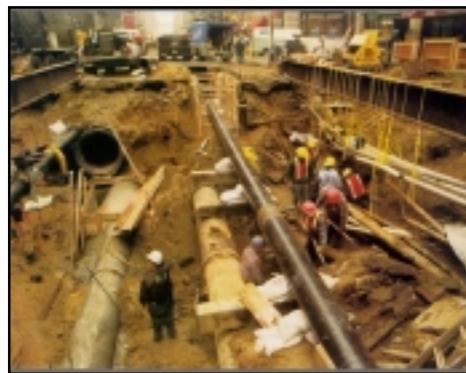
Water main breaks are evidence of a looming national problem. Much of the nation's water supply infrastructure is rapidly reaching the end of its lifespan. The underground pipes that deliver our drinking water vary in age, with the oldest pipes dating back to the late 1800s. Pipes installed before the 1960s were generally made of cast iron, and have a useful life expectancy of 75-120 years. The U.S. Environmental Protection Agency (EPA) and the American Water Works Association (AWWA) estimate that much of our nation's water system distribution piping will reach the end of its useful life over the next 20-30 years, with utilities facing significant investments for infrastructure replacement. The American Water Works Association estimated in a 2001 report that the costs of infrastructure repair and replacement will require additional spending of more than \$6 billion nationwide, or about \$550 to \$6,900 per household over the next 30 years. According to the 2001 EPA Drinking Water Needs Survey, within the next 20 years Maryland water distribution systems will need improvements costing almost \$1 billion. This cost is primarily for replacing or refurbishing old water transmission and distribution mains.



PHOTO COURTESY CITY OF BALTIMORE-DEPT. OF PUBLIC WORKS

In early November a 20-inch water main made of cast iron ruptured along St. Paul and Fayette Streets in Baltimore, spewing thousands of gallons of water that led to flooding of nearby office buildings. Above, crews begin repairs that are costly and led to street closures that can last for days. At right, is a major water main replacement that took place in a downtown section of New York City.

Water main breaks typically occur more frequently in the winter and spring, when temperatures are rapidly changing from warm to freezing and vice versa and the resulting ground movement causes breaks. Some utilities, however, noticed an increase in main breaks last summer, which may have been the result of dry soils or extreme heat causing ground movement.



Water losses from main breaks can range from 1,000 gallons to several million gallons, depending on the location and size of the service or main. Utilities typically learn about breaks when they notice water collecting on the street or ground, unusually high demands, or a water level drop in a storage tank. Leaking water mains can sometimes go undetected for long periods

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Resolve to create a healthier Earth

Why pick resolutions you can't keep? Here are a few from the Maryland Departments of Natural Resources and Environment that help the planet and people around you!

1. SAVE WATER: Fix drips and leaks, turn off the faucet when brushing your teeth and install water-conserving fixtures on your taps and shower.

2. PLANT A TREE: Trees supply the oxygen we need to breathe. They provide food and shelter for wildlife, such as birds, deer and squirrels. Trees also help absorb pollution and purify water. Tree roots help with the stabilization of soil and prevent erosion.

3. READ A BOOK: Try *The Founding Fish* by John McPhee. What connects the Civil War, George Washington and John Wilkes Booth? The American Shad! Pulitzer Prize winning journalist McPhee tracks down the natural history of the shad and traces the fish's place in American history and economics. DNR's Fisheries Service is restoring American shad to Maryland rivers through hatchery stocking. Shad populations in most tributaries have not recovered despite a 20-year fishing moratorium primarily due to a lack of adult spawners. By providing hatchery-produced adults, which were stocked in several Maryland rivers in 2002, naturally reproducing popu-

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MDEnvironment



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EPA report examines air toxins

By Bob Maddox

A recent U.S. Environmental Protection Agency (EPA) report analyzing data from 1996 suggests that Americans face a higher than acceptable risk for developing cancer and other health problems from breathing hazardous pollutants found in outdoor air. According to the report, known as the National-Scale Air Toxics Assessment (NATA), motor vehicles are significant contributors to national emissions of several hazardous air pollutants that pose an unacceptable cancer risk.

To reach these conclusions, the EPA estimated and measured (where data were available) the levels of and the amounts of emissions from sources of such compounds. The EPA also further estimated the degree to which humans were exposed to these compounds, and from these factors determined the amount of risk such exposure provided. Moreover, the report found that mobile sources such as automobiles, trucks, buses and non-road (construction and farm equipment) engines release, collectively, a significant amount of emissions of toxic air pollutants that include benzene and formaldehyde. The soot released from diesel engine exhaust is particularly harmful, as the fine particulates found in diesel exhaust can cause or exacerbate cardiovascular and respiratory conditions. In Maryland, trucks and buses account for approximately 35 percent of diesel emissions while construction equipment and non-road engines, such as those used in lawn mowers, boats and farm equipment, account for the remainder of diesel emissions.

Because the NATA report relies on 1996 data, it does not reflect air quality achievements of programs that Maryland has implemented since that time to reduce emissions from both diesel fuels and gasoline, said Marcia Ways, division chief in the Maryland Department of the Environment's Mobile Source Control Program. "For example, since 1995 the D.C. and Baltimore metropolitan areas of Maryland now use federal reformulated gasoline (RFG)," said Ways. "Reformulated gasoline burns cleaner, and in doing so, reduces emissions of toxic air pollutants."

"In addition, reformulated gasoline helps to reduce pollutants that cause ground-level ozone – a summertime air pollution problem in Maryland," explained Ways.

Phase II of the RFG program was implemented in the same Maryland areas in 2000. Phase II has led to further reductions of volatile organic



MDENVIRONMENT FILE PHOTO COURTESY U.S. DEPT. OF TRANSPORTATION

Vehicular traffic is a major source of air pollution. But the introduction of reformulated fuels, new fuel standards and inspection programs have help cut pollutant levels.

compounds, toxics and oxides of nitrogen (NOx).

Another Maryland program bringing about reductions in toxic air pollutants is one that addresses diesel emissions from heavy-duty diesel vehicles. In 1999, the Maryland legislature approved the Diesel Vehicle Smoke Inspection Program, which was implemented in July 2000. The program allows random emissions testing by the Maryland State Police on heavy-duty diesel vehicles weighing over 10,000 pounds, usually at weigh stations. The test is a smoke opacity test that measures the amount of particulate matter (soot) present in diesel exhaust. As of November 2002, 496 vehicles failed the diesel test. Vehicles that fail the test (exceed smoke opacity standards) are required to be repaired and retested.

"Trucks that fail the test usually need routine maintenance," said Tim Shepherd, a section head in the Mobile Source Control Program. "Relatively simple problems such as clogged fuel systems or dirty fuel and air filters can cause excessive smoke from the exhaust pipe."

On average, vehicles that failed and

passed a re-inspection, showed a 70 percent improvement in emissions reductions.

Future standards, when implemented, will reduce diesel emissions even further. Manufacturers of heavy-duty diesel vehicles will be required beginning in 2004 to produce engines that reduce NOx and hydrocarbon emissions. In 2007, fuel producers will be required to reduce 97 percent of the sulfur content in highway diesel fuel. Not only will the new sulfur standard reduce NOx and particulate matter emissions, the low-sulfur fuel will allow the use of more advanced emission control devices. The sulfur contained in fuel is a contaminant that damages control devices.

To learn more about what EPA is doing to control air pollution from vehicles and fuels, visit its Web site at www.epa.gov/oar and look at the transportation/fuels pages. To learn more about Maryland's mobile source related air quality programs, visit www.mde.state.md.us and view the Mobile Source Control pages. To report smoking vehicles on Maryland roads, call 1-866-677-2833.

MDEnvironment to change

The *MDEnvironment* will be taking on a new look and a new format in coming months. By June 2003, the newspaper will no longer be produced in this format or in hard copy, but will become a downloadable electronic publication.

This change will reduce production and dissemination costs and will enable the Maryland Department of the Environment to potentially expand content and readership, while continuing to provide this valuable information free to interested persons.

In the future, subscribers will be notified via email as each new edi-

tion is available on the Maryland Department of the Environment's website. Electronic subscription information will be available in the next edition and on MDE's website at: www.mde.state.md.us under "Publications."

Comments about the publication and its circulation changes may be sent to: Editor, *MDEnvironment*, Maryland Department of the Environment, 1800 Washington Blvd., 7th Floor, Suite 7132, Baltimore, MD 21230; or by calling (410) 537-3012 or (800) 633-6101, ext. 3012 toll free in Maryland.

Clean Air Partners issue awards

By Bob Maddox

In November Clean Air Partners held its annual meeting and 2002 Awards Ceremony at the University of Maryland Inn and Conference Center. Clean Air Partners, a non-profit organization, is the public education program for air quality in Northern Virginia, the District of Columbia, and central Maryland.

The annual meeting highlighted the past year's achievements including the development of an elementary school air quality curriculum "Air Smart," expanded public outreach on regional air quality issues, and the addition of more Ozone Action Days programs in the region. The 2003 work program includes an aggressive public education campaign with an equally aggressive outreach component. To support these activities, Clean Air Partners will attempt to attract more potential sponsors from a wider range of organizations.

The 2002 Awards Ceremony recog-

nized several organizations for their efforts to reduce the region's ozone pollution problem through voluntary actions – an Ozone Action Days program. Award winners were Middle River Aircraft Systems, the Virginia Department of Transportation, the Maryland Port Administration, Bob Ryan of NBC affiliate WRC TV-4 in Washington, D.C. and Lori Pinson, chief meteorologist at WBFF FOX 45 in Baltimore, for media support. Pinson gave the meeting's keynote address and showed a video compilation of news clips about the region's air quality. She has shown dedication in helping the public understand the importance of improving air quality.

Sharon Bulova, a member of the Fairfax County, Va. Board of Supervisors, was recognized for her work as the chairperson during 2002.

Montgomery Park Business Center, the new home of the Maryland Department



From left, Clean Air Partners awardee WBFF TV/Fox 45 Meteorologist Lori Pinson (center) is congratulated by Lisa Grant and Rick Sheckells of the Maryland Port Administration as well as Linda Stewart Byrd and Keith Bounds of the Maryland Department of Transportation.

of the Environment, received the Clean Air Trendsetter Award for the redevelopment of the long abandoned Montgomery Ward warehouse as a "green

building" in southwest Baltimore. The new location also helps to improve air quality by providing great access to public transit.

Program turns attention to mercury and pH loading in the Bay

By Jim George

The Chesapeake Bay Agreement has been called Maryland's environmental crown jewel. The primary focus of the Bay Agreement has been on the problems associated with excessive nutrients, which cause algal blooms, low dissolved oxygen, and shifts in the Bay's ecological community.

Simultaneously a major effort is underway to determine the maximum amount of nutrients that the Bay can assimilate, and still meet water quality standards. This undertaking is analogous to establishing a Total Maximum Daily Load (TMDL) for the Bay. TMDLs are water quality studies required by the federal Clean Water Act. TMDLs provide an estimate of the maximum amount of a pollutant that a body of water can assimilate without violating water quality standards. If the standards can be achieved by 2010, then it will not be necessary to submit a formal Bay TMDL to the Environmental Protection Agency (EPA).

Because of the Bay focus, people who give any thought to TMDLs immediately think of nutrients. But there is more to the world of water quality management than the Chesapeake Bay and nutrients. For example, people in Western Maryland are acutely aware that the legacy of coal mining has left many cold water streams devoid of trout, and discolored by chemical reactions associated with acid mine drainage. Similarly, people who like to fish in Maryland's lakes have been informed that they should limit their consumption of fish due to trace amounts of mercury from atmospheric sources. The Maryland Department of Environment (MDE) has for the first time undertaken development of TMDLs to address low pH and mercury impairments.

"These are cutting edge analyses without established methods," said Dr. Richard Eskin, Deputy Director of MDE's Technical and Regulatory Services Administration. "We are performing the science and technology development at the same time we are developing the TMDLs."

Mercury in lakes

The federal Clean Water Act and Maryland regulations require the state to maintain water quality that supports fish and aquatic life, and fishing as a recreational activity. The U.S. Environmental Protection Agency interprets the "fishable" use under Section 101(a)

of the Clean Water Act to include, at a minimum, the protection of aquatic communities and human health related to the consumption of fish and shellfish. In other words, "fishable" means that not only can fish and shellfish survive in a waterbody, but when harvested, can also be safely eaten by humans.

Based on mercury data in fish tissue from a subset of lakes across the state, the Maryland Department of Environment announced a statewide fish consumption advisory for lakes. This advisory recommends that people limit their consumption to eight 8oz. meals per month to avoid increased risk of adverse health effects. This advisory has been established statewide as a precautionary measure because the primary source of mercury is understood to be atmospheric deposition, which is widely dispersed.

MDE is in the process of collecting more data from specific lakes to verify the presumed impairments, and to refine the fish consumption advisories where warranted. This effort is being conducted in coordination with Maryland DNR's fisheries program and Resource Assessment Service. Because mercury impairments constitute a human health concern, Maryland's policy for setting water quality management priorities has elevated these cases to a high priority category. Consequently, resources have been devoted in 2002 to developing TMDLs for nine water bodies that have sufficient data: Big Piney Reservoir, Deep Creek Lake, and Savage River Reservoir in Garrett County; Prettyboy Reservoir, Liberty Reservoir, and Loch Raven Reservoir in Baltimore County; Lake Lariat in Calvert County; St. Mary's Lake in St. Mary's County; and Tuckahoe Lake in Caroline County.

The methodology used to compute these mercury TMDLs consists of two broad steps. The first step is to determine a maximum Allowable Ambient Water Column Concentration of mercury in the water column that ensures the bioaccumulation of the total mercury by fish will remain below a maximum fish tissue concentration. The second step is to determine a maximum allowable load that is consistent with the maximum water column concentration. The resultant TMDL includes a Load Allocation, a margin of safety, and a Future Allocation. The TMDL methodology considers all sources, including direct atmospheric deposition to the surface of the lake, nonpoint source contributions from the watershed, and point source contributions where applicable. EPA considers coal-fired electric power

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News Briefs

Drought draws to a close

In light of recent rainfall and wintry conditions, Governor Parris N. Glendening lifted the drought emergency declaration for the Eastern Shore Dec. 18 and relaxed water use restrictions that have been in place in Central Maryland since April.

The central region of the state, which includes parts of Baltimore, Howard and Anne Arundel counties served by the City

of Baltimore's water system, will now move from Level Two to Level One water use restrictions. The drought emergency declaration and water use restrictions are being lifted for the eastern region of Maryland.

Abnormally cool temperatures and plenty of rain during September, October and November have brought relief from the drought conditions Maryland has been experiencing for most of the year.

Although the overall status for each region is "normal," some individual indicators remain outside the normal range, requiring some restrictions to remain in effect.

For more information about drought status and the Level One restrictions, visit the Maryland Department of the Environment website at: www.mde.state.md.us/ drought or call the toll free drought hotline

at 1-877-4-DROUGHT.

EPA accepts \$5.8 million to clean up Spectron site

More than 480 parties involved with hazardous substances at a Maryland superfund site have settled with the federal government for a total amount of \$5.8 million, Environmental Protection Agency

See BRIEFS, Page 6

Calvert school, MDE partner to recover mercury thermometers

By Herb Meade

Mercury is a persistent and toxic heavy metal that poses considerable threat to the environment and public health. Mercury discarded as trash can be a significant source of mercury releases into the environment.

To reduce the amount of mercury in homes and prevent it from entering the solid waste system, Calvert County and the Maryland Department of the Environment (MDE) recently partnered in a mercury thermometer exchange project. Prohibition of the sale or provision of mercury-containing fever thermometers unless by prescription became effective last October.

Calvert County worked with four local elementary schools to make the project a success. At the end of the 30-minute exchange session, held at the Dowell Elementary School located near Solomons, 35 mercury thermometers were counted in the collection box. Parents and grandparents of students lined up to turn in their old mercury thermometers and exchange them for a new environmentally safe digital unit. Many shared stories of broken thermometers and their attempts to cleanup the released mercury.

"I'm so glad to see the government take this positive action," said Jennifer Shymansky, a parent of one student, as she exchanged her old thermometer. "Thanks for coming to our school."

Calvert County Recycling Technician Shirley Steffey was ecstatic with the results at Dowell Elementary. It was Steffey who first thought of including the schools in

the collection project. "You can reach so many parents and grandparents through the local schools," she said. "The word spreads so quickly that the results are always encouraging. Our citizens are concerned about the environment and the health of their children. They want to do the right thing and always respond positively to our outreach efforts."

Although mercury is a naturally occurring element, more than two-thirds of the mercury in the atmosphere comes from human-made products.

Elemental mercury, chemical symbol Hg, is a shiny liquid, silver-white in color and is found in household items such as thermometers, thermostats, and irons and in commercial and industrial products in liquid or vapor form. Mercury vapor, a colorless, odorless gas, is found in fluorescent, high intensity discharge neon and some automotive headlamps. Elemental mercury when spilled (at room temperature) can break up into small droplets and evaporate to form mercury vapor. Improper disposal causes mercury to cycle and get into water and soil.

Humans are exposed to mercury through their diet (primarily through fish), and by absorption or through the inhalation of toxic elemental mercury fumes. Signs and symptoms of brief exposure may include coughing, shortness of breath, chest pain, nausea, vomiting, diarrhea, fever, and bronchitis. Long-term exposure can result in shakiness, tremors, loss of muscle control, memory loss, kidney disease, and loss of appetite and weight.



A Calvert County resident turns in an old mercury based medical thermometer for a new digital one during the recent exchange program. A new law banned the sale of mercury thermometers in the state last October.

The health effects of mercury exposure depend on several factors, including the amount consumed, absorbed, or inhaled and the length and frequency of exposures. Also a person's general health status, age, gender, family history, diet and lifestyle, and exposure to other chemicals may have an effect on whether the mercury causes an ill effect. During the early stages of development, children to age six and fetuses

are most sensitive to mercury poisoning where mercury exposure can adversely impact nervous system development.

Calvert County residents can arrange to exchange an old mercury thermometer by visiting the administrative offices of the Appeal Landfill or calling Shirley Steffey at (410) 326-0210. Others can learn more about recycling in your area by visiting MDE's website at: www.mde.state.md.us.

RESOLUTION Continued from Page 1

lations of shad will one day be restored to rivers that historically supported runs.

4. BUY A STAMP: Not just any stamp! Buy the Maryland Black Bear Conservation Stamp. This stamp generates funds that are used to compensate farmers who have reported damage to agricultural crops caused by black bears. Stamps may be purchased for a minimum contribution of \$5.00 and are available on the DNR website, or through any of the Department of Natural Resources' Service Centers located throughout Maryland, or by calling 1-800-873-3763. Buy two even! One for a gift and one for yourself.

5. BUY ANOTHER STAMP: The Mary-

land Migratory Bird Stamps cost just \$9. Proceeds from the stamps — required for Maryland migratory game bird hunters — fund waterfowl research and habitat enhancement on the state's public lands. Since its inception in 1974, over \$4 million in stamp revenue has been used to create and improve waterfowl migration and wintering habitats. You even enter a design for the 2003 "Duck Stamp Contest" by visiting the DNR website!

6. NEVER FEED WILDLIFE: Wildlife is meant to be just that — wild. When you feed wildlife they lose their fear of people, yet retain their wild instincts. Wildlife's natural instinct is to forage for food on their

own. Let nature take its course and keep your food for yourself.

7. INTRODUCE YOUTH TO FISH AND WILDLIFE: Take a youngster outdoors to appreciate our vast natural resources. Many outdoor activities on DNR's managed land and parks allow fishing, hunting, bike riding, bird watching, canoeing, camping, hiking, and much much more. There are also many programs available through the department such as Hooked on Fishing Not on Drugs, Maryland Envirothon, Outdoor Discovery Camp, and the Junior Ranger Program.

8. RECYCLE YOUR CHRISTMAS

TREE: Christmas trees are biodegradable — the trunk and branches can be used as mulch for gardens, parks or in animal stalls. The mulch provides a protective barrier for the roots of shrubs, trees and flowers while preventing weeds from growing. The mulch then decomposes, providing the nutrients plants need to thrive. Contact your local Department of Public Works or Recreation Council to see who recycles trees in your area.

9. GET INVOLVED: Join a local watershed organization, Tributary Team, or get your neighborhood involved in actions to protect your local streams and the Bay.

BREAKS Continued from Page 1

of time, or indefinitely. These water losses can be significant, especially when experiencing drought conditions like those over the last year. Large utilities maintain regular crews dedicated to repairing main breaks, usually with 24-hour response. Returning water service to their customers is a priority, especially when hospitals,

senior homes, or other vulnerable locations are affected.

MDE recommends that all water systems conduct frequent water audits. These audits, which account for all of the water uses in a system, will help to identify the amount of water that is lost through leaks and main breaks. Water

systems should also have a leak detection program in place. For additional information on water audits, visit MDE's website at www.mde.state.md.us.

When main breaks are frequent, the water system may need to plan for renovation or replacement of portions of its distribution sys-

tem. This can be a costly endeavor, however some of the costs may be eligible for low interest loan financing through MDE's drinking water state revolving loan fund. For more information on water improvement financing, call the Water Quality Financing Administration at (410)537-3119.

Icelandic USA shares its P2 strategies with others

By Laura Armstrong

Icelandic USA, known formerly as Coldwater Seafood Corporation, recently served as a host site for a pollution prevention training session for the Maryland Department of the Environment's (MDE) water compliance staff. Pollution prevention, or P2, measures aim to reduce or eliminate pollution at the source rather than through control or treatment technologies at the end of the process. The training session provided MDE staff a chance to learn how to identify P2 opportunities and encourage facilities they work with to take advantage of free, on-site, voluntary P2 assessments through the Maryland Technology Extension Service.

Located in Cambridge, Icelandic produces a variety of value-added seafood products such as beer-battered fillets and breaded fish sticks. Because much of the

equipment in the production area is on wheels, the facility is able to reconfigure each evening for the next day's products. This flexibility allows them to produce an astounding 327 different types of food products in relatively modest space.

IFPC, the parent company of Icelandic USA, has adopted environmental principles which reflect the considerations set forth in Agenda 21 of The Global Plan of Action for Sustainable Development adopted at the United Nations conference in Rio de Janeiro in 1992. These principles include responsible fishing and fish processing, and economical and appropriate use of packaging material. Icelandic employs a number of waste reduction and recycling measures at their facility to ensure full utilization of the catch. This has enabled them to decrease their product waste from 9 percent to 3.5 percent. Icelandic's waste re-

duction measures include:

- Where possible, fish pieces are reformed into new product. The remainder is sent to a rendering plant and mink farms.
- Bread crumbs and coatings are re-circulated within the process. Fryer crumbs are sent to a renderer.
- Frying oil is filtered every day to reduce waste oil.
- Automatic shut off devices have been placed on batter mixers to prevent overflow.
- Water flow is turned off at break times.
- Energy efficient freezers have replaced older equipment
- Preventive maintenance is performed on equipment.
- Icelandic's product line went through a package restructuring in 2001 to make products able to use the same size and type of packaging materials, therefore reducing



Jay Book, left, is Icelandic USA's Plant Manager while Roland Palmer is the firm's Human Resource Manager.

excess materials and waste. All labels are also printed in house as needed versus stocking preprinted labels, also reducing waste.

- Re-processable packaging material is given preference to the extent possible.

See ICELANDIC, Page 12

Public Information Notice

From the Water Quality Financing Administration of the Maryland Department of the Environment-Water Management Administration Drinking Water Revolving Loan Fund

The Department intends to amend its existing FY 2002/2003 Drinking Water State Revolving Loan Fund (DWSRF) Project Priority List (PPL) to include the following list of drinking water projects. The proposed projects may subsequently be amended into an existing DWSRF Intended Use Plan for financial assistance.

<u>Applicant</u>	<u>Project Title</u>	<u>Total Cost</u>	<u>DWSRF Loan Request</u>	<u>Rank/Points</u>
Town of Betterton	Main Street water line	32,928	32,928	23/25
City of Baltimore	Montebello Maintenance Shop	6,120,000	3,855,600	30/0
City of Baltimore	Montebello Filtration Plant Laboratory Facility	8,024,000	5,055,120	31/0
City of Baltimore	Valve and Fire Hydrant Replacement	1,000,000	1,000,000	27/10
City of Baltimore	Montebello Park Water Main Cleaning	714,000	714,000	22/25
City of Cumberland	Ridgedale Water Storage Tank Replacement	274,400	274,400	25/25
Town of Secretary	Water Tower Refurbishing	28,535	28,535	20/30
Town of Westernport	Horse Rock Waterline	111,500	TBD	17/40

Water Quality Revolving Loan Fund

The Department intends to amend its existing FY2001/2003 Water Quality Revolving Loan Fund (WQRLF) Project Priority List (PPL) to include the following list of clean water projects. The proposed projects may subsequently be amended into an existing WQRLF Intended Use Plan for financial assistance.

<u>Applicant</u>	<u>Project Title</u>	<u>Total Cost</u>	<u>WQRLF Loan Request</u>	<u>Rank/Points</u>
Allegany County	George's Creek/Bowling Green I/I	3,711,760	3,711,760	50/22
City of Rockville	Cabin John Stream Improvements/restoration	300,000	300,000	141/17
City of Baltimore	Patapsco Treatment Plant Lab	6,800,000	2,176,000	116/17
City of Rockville	Cabin John Sewer Upgrade	1,108,000	1,108,000	163/15
Town of Betterton	Main Street sewer line	151,809	125,000	112/18
Calvert County Board of Commissioners	Calvert County I/I	32,000	32,000	49/22
Town of North Beach	North Beach I/I	20,000	20,000	46/22
Town of Chesapeake Beach	Chesapeake Beach I/I	32,000	32,000	45/22
Washington County Sanitary	Sewer Bond Refunding	14,533,049	14,533,049	109/19
Town of Poolesville	Poolesville BNR Improvements	2,553,362	1,250,000	23/23
City of Rockville	Redgate Watershed Retrofit	315,000	157,500	107/19
Town of Westernport	Stoney Run Failing Septics	780,000	780,000	18/24
Town of Oakmont	Bioretention Facilities	19,160	19,160	16/25
Prince George's	Anacostia Trash Collector Phase II	385,000	TBD	105/19
Town of Woodsboro	Woodsboro WWTP	2,878,453	655,972	27/23
Calvert County	Wetland Restoration	59,446	14,861	61/21

Any questions or requests for additional information on the projects should be forwarded by January 31, 2003 to:

George Keller, Acting Program Administrator
Maryland Department of the Environment
Water Quality Infrastructure Program, Water Management Administration
1800 Washington Blvd.
Baltimore, MD 21230
Phone: (410) 537-3574
Fax: (410) 537-3445
E-Mail: gkeller@mde.state.md.us

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Region III announced Dec. 4. The proposed consent decree resolves the liability of the de minimis parties—companies, individuals, municipalities, and state and federal agencies, that allegedly contributed relatively small amounts of hazardous substances at the Spectron Inc. site in Elkton.

Under the terms of the proposed settlement, the de minimis parties are required to reimburse the United States approximately \$2.8 million for EPA's past and future expenses and reimburse the Spectron Site Group approximately \$3 million.

"In 1961, Galaxy Chemicals, Inc., began a

solvent recovery operation that treated wastes generated by the electronics, pharmaceutical, paint, and chemical process industries. The site had previously been a paper mill. Galaxy Chemicals went bankrupt in 1975, and the facility was re-opened as Solvent Distillers Inc., with primarily the same ownership. The company, which changed its name to Spectron Inc. in 1978, closed the facility in 1988 and went bankrupt. Over the years, several lagoons were used at the site to dump wastes," according to EPA.

The agency also said some of the sub-

stances in the soil and groundwater include methylene chloride, tetrachloroethane, trichloroethylene, benzene, toluene, and xylene.

Bald eagles making a comeback

Bird lovers were hard-pressed to find bald eagles in the Chesapeake Bay area in 1977, but since then the national symbol has staged a startling comeback, even nesting beside the Woodrow Wilson Memorial Bridge. An extraordinary sevenfold increase in eagles nationwide has led the U.S. Fish and Wildlife Service to consider removing the bird from

the list of "threatened" species protected by the Endangered Species Act. While local environmentalists are enthusiastic about the ninefold increase in eagles in the bay area, they worry that delisting could end the recovery. Without commenting specifically on the proposed regulations, they said they worry generally that delisting could sacrifice currently protected eagle habitats to developers.

—Compiled from media reports and other sources

TMDL Continued from Page 3

generating plants to be the largest anthropogenic source of mercury emissions in the nation. In Maryland, the major sources of mercury air emissions are: 43 percent attributed to power plants, 31 percent to municipal waste combustors, 19 percent to medical waste incinerators, 6 percent to Portland Cement plants, and 1 percent to other sources (e.g., landfills, oil-fired power plants, other industries).

Low pH TMDLs for acidic water

The water quality criterion used to indicate whether or not a waterbody is too acidic is pH. The objective of low pH TMDLs is to ensure that the pH levels support the designated use of the waterbody, accounting for natural conditions. The pH level is based on specific numeric criteria for waters set forth in the Code of Maryland Regulations. These regulations require that the pH values of state waters of all designated uses be maintained in a pH range of 6.5 to 8.5 at all times, unless the natural conditions of a stream segment are not consistent with the criteria established for the stream. In the case of streams with little or no buffering capacity, the TMDL

endpoint for pH will be the pH of the natural background water quality. These pH values can be as low as 3.5 in natural peat bogs habitats.

Although pH is a good indicator of environmental conditions needed to support aquatic life, it is not conducive to the statistics needed in the TMDL analysis. Therefore, rather than use pH directly, the method used by MDE utilizes acidity to conduct the TMDL analysis. A relationship between acidity and pH, developed using site-specific data, allows the results of the TMDL analysis to be translated into an endpoint for pH. This analysis has three elements.

First, a relationship between acidity and pH is established to translate the pH goal to an acidity goal that is used in the TMDL computations. Second, sets of "synthetic data" for each stream location with the same statistical properties as the observed data are generated to represent the current conditions from which reductions in acidity are needed to achieve the desired pH. Third, reductions in the acidity are simulated at each monitoring station to the outlet of the creek, accounting for upstream reductions and any sources of acidity that might lie

between each station. The sum of the reductions made at each step represents the total reduction needed to achieve the pH criterion throughout the system.

This approach was recently used to develop a TMDL for Cherry Creek, a tributary of the Youghiogheny River in Garrett County that flows into Deep Creek Lake. Although naturally acidic, Cherry Creek (named for its deep reddish color produced by peat bog tannins) became impaired due to acidic drainage from historic mining activities in the area. The targeted water quality goal for Cherry Creek is to achieve natural pH conditions; therefore, this water quality goal has been estimated from analysis using data from sample stations that are not affected by acid mine drainage. The Cherry Creek TMDL is expressed in terms of maximum allowable acid load to the stream, and the reduction information provides guidance for future implementation strategies.

Steps are being taken by MDE's Bureau of Mines to address the problem by installing lime dosing equipment. The abatement effort is already bearing positive results. "Prior to the installation of the Cherry Creek doser, our stream studies found only a few

fish near the mouth of the stream and all were lake dwelling species," said Ken Pavol, a fisheries biologist with the Maryland Department of Natural Resources (DNR). "After only a couple of months of doser operations, we found trout in Cherry Creek throughout the stream between the doser and Deep Creek Lake. It's evident that trout in Deep Creek Lake, attracted by the cool water and enhanced water quality, were quick to exploit the newly improved habitat."

MDE acknowledges that the TMDLs will not have an immediate effect on the loads, in part because some of the atmospheric sources lie outside of Maryland. Nevertheless, the public process associated with the developing these of TMDLs will greatly enhance the awareness of the general public to the fish consumption advisory. In addition, developing the TMDLs soon will highlight the need for upgrading controls on coal fired power plants, which is a topic of current national debate.

For further information regarding Maryland's TMDL Program, please contact Melissa Chatham at (410) 537-3937 or Elaine Dietz at (410) 537-3667.

Public hearings & meetings

Air & Radiation Management Administration

January 28—6:30 p.m.

Odenton Branch of the Anne Arundel County Library, 1270 Odenton Road, Odenton. Public hearing concerning an application for an air quality permit to construct submitted by Donaldson Funeral Home and Crematory to install one Power Pak Junior multiple chamber animal cremator rated at 75 pounds per hour. For more info contact Robert Maddox, (410) 537-3265. (In case of inclement weather, the hearing will be held on January 30, 6:00 p.m., Odenton Library.)

Waste Management Administration

January 8—7:30 pm

Patterson High School, 405 Kane Street, Baltimore. Public Meeting to discuss the proposed remedial action plan for Kane and Lombard Operable Unit 2 (proposed plan). For more info contact Dave Healy, (410) 537-3440.

January 9—9 a.m. to Noon

MDE, Potomac Conference Room, 1800 Washington Boulevard, Baltimore. Meeting of the Controlled Hazardous Substances Advisory Council. For more info contact Emmanuel Ofoche, (410) 537-4460.

Water Management Administration

January 13—10 a.m.

Anne Arundel County Library Meeting Room, 1410 West Street, Annapolis. Public Information Meeting on Tidal Wetlands Permit

Application Number 02-WL-1473-200263056. The Chesapeake Bay Foundation has applied to emplace thirty 20-foot diameter piles of recycled concrete oyster reef totaling 900 feet within a maximum of 300 feet chanelward of the mean high water line. The purposes of this project are shore erosion control and to create oyster reef habitat. The project is located in Whitehall Bay near Annapolis. For more info contact Robert Cuthbertson, (410) 537-3845.

***Persons needing special accommodation are encouraged to contact MDE's Fair Practices Offices at (410) 537-3964 five days prior to the event.*

Attend the High Tech P2 conference

The 2003 Mid-Atlantic Pollution Pre-

vention Conference will be held January 30-31 at Camden Yards in Baltimore, Maryland. The meeting will focus on providing the latest pollution prevention information and case studies focused on the electronics sector. The conference will explore how pollution prevention can be incorporated into all facets of the life cycle of electronics equipment including supply chain, manufacturing, and retail. Sessions will focus on a variety of areas including green procurement, energy efficiency programs, sustainability initiatives and "e-cycling" as they relate to the high technology sector. To register, go to www.p2.org/events/region3/2003P2/, or call the National Pollution Prevention Roundtable at 202-299-9701.



Enforcement & Compliance Notes

--November 15 to December 15, 2002--

Air & Radiation Management Administration

Schlumberger Malco Plastics (Schlumberger) – Baltimore County-- On November 21st, MDE issued a Notice of Assessed Civil Penalty in the amount of \$10,000 to Schlumberger. Schlumberger operates a commercial credit card manufacturing facility. The company failed to maintain records of maintenance, operator training, fuel usages and VOC-containing materials as required in its Title V permit to operate. The violations have since been corrected. **Status:** Schlumberger has 30 days to request a hearing on the Assessed Penalty. (Reference #AQCP 02-05A)

Tilghman Oil Company – Wicomico County--On November 21st, MDE issued a Notice of Assessed Civil Penalty in the amount of \$2,500 to Tilghman Oil Company. Tilghman Oil, located in Salisbury, violated Maryland's Stage I Vapor Recovery requirements. An MDE inspector observed one of the Company's gasoline delivery trucks delivering gasoline without using a vapor balance line, violating Stage I requirements. The company has since modified the equipment on its trucks to prevent future violations. **Status:** Tilghman Oil has 30 days to request a hearing on the Assessed Penalty. (Reference #AQCP 02-34A)

Baltimore Marine Industries – Baltimore County--On November 22nd, MDE and Baltimore Marine signed a Consent Order to settle an enforcement action for air quality violations. Baltimore Marine operates a shipbuilding and repair facility at Sparrows Point. The company failed to perform monitoring and record keeping activities at its air emissions discharge stacks as required in its Title V permit to operate. In the Consent Order, Baltimore Marine agrees to pay a \$14,000 penalty and comply with air quality regulations. The violations have since been corrected. **Status:** Baltimore Marine has 30 days to pay the penalty. (Reference #AQCP 011-200200003)

Constellation Power – Baltimore City-- On December 4th, the Office of the Attorney General, at MDE's request, notified Constellation Power in writing of its intent to pursue civil action for violations of air quality requirements at its Gould Street generating station. The Gould Street station, located in Baltimore, has been cited by MDE inspectors on at least seven occasions for violations of visible emissions

requirements. This facility is a "major" source of air pollution as defined by the Clean Air Act. **Status:** Constellation Power has 10 days to respond to the letter. (Reference #AQCP 02-1204)

Phoenix Color Corporation - Washington County--On December 12th, MDE issued a Notice of Assessed Civil Penalty in the amount of \$35,000 to the Phoenix Color Corporation for violations of air quality regulations at its printing plant in Hagerstown. Phoenix failed to perform monitoring and record keeping activities required in its Title V Permit to Operate. The violations have since been corrected. **Status:** Phoenix has 30 days to request a hearing on the Assessed Penalty. (Reference #AQCP 02-03A)

Waste Management Administration

Johnnie and Nannie Couser - 4 properties - Baltimore City - Johnnie and Nannie Couser were issued a Complaint, Order and \$20,000 Civil Penalty on November 27 for violating Maryland's Lead Laws by failing to provide Tenants' Rights Notice and failing to obtain risk reduction certificate(s) of lead inspection compliance. **Status:** Johnnie and Nannie Couser have 10 days to request a hearing on the Complaint and Order and 30 days to request a hearing on the Penalty. (Reference # 02-30-5057)

Evelyn Holt - 1 property - Allegany County - Evelyn Holt was issued a Complaint, Order and \$5,000 Civil Penalty on November 27 for violating Maryland's Lead Laws by failing to register pre-1950 rental units and failing to obtain risk reduction certificate(s) of lead inspection compliance. **Status:** Evelyn Holt has 10 days to request a hearing on the Complaint and Order and 30 days to request a hearing on the Penalty. (Reference # 01-01-3995)

Water Management Administration

Oak Bluff Dairy Farm – Frederick County-- On December 11, 2002, MDE and Oak Bluff Dairy Farm finalized an administrative Settlement Agreement resolving violations of MDE's General Discharge Permit for Concentrated Animal Feeding Operations (CAFO) issued for the dairy farm located on Oak Hill Road in Woodsboro, Maryland. Under the terms of the Settlement Agreement, Oak Bluff Dairy Farm has

agreed to complete construction of a leachate management system within 60 days to address unauthorized discharges from the farm's silage storage area. In addition, the owner has agreed to submit within 30 days a corrective action plan to address compliance issues with the farm's nutrient management plan. The owner has also agreed to expend \$15,000 in the performance of supplemental environmental projects to benefit water quality within two years. A stipulated penalty of \$1,000 has been established in the event that Oak Bluff fails to comply with record keeping requirements of the General CAFO Permit and the nutrient management plan within six months. **Status:** Case closed. (Reference # CO-03-0155).

Hickory Hill Farm, Inc. – Baltimore County – On November 27, 2002, MDE and Hickory Hill Farm finalized an administrative Settlement Agreement resolving Administrative Complaint and Order #AO-02-0146 issued March 26, 2002 for water pollution and violations of State Discharge Permit #99-DP-3177 for the farm located on Pleasant Meadows Road in Upperco, Maryland. Under the terms of the Settlement Agreement, Hickory Hill Farm has agreed to pay \$3,000 to the Maryland Clean Water Fund and has also agreed to expend \$25,000 in supplemental environmental projects to benefit water quality within the next two years. **Status:** Case closed. (Reference #SA-03-0146).

Joseph Smith and Sons, Inc. – Prince George's County – On November 19, 2002, MDE and Joseph Smith and Sons, Inc. finalized an administrative Settlement Agreement to resolve Administrative Complaint, Order and Penalty #AO-02-0024 issued on August 10, 2001 for alleged violations of MDE's General Stormwater Permit for Discharges Associated with Industrial Activity (General Stormwater Permit) at the scrap metal and auto salvage facility located at 2001 Kenilworth Avenue in Beaver Heights, Maryland. Under the terms of the Settlement Agreement, Joseph Smith and Sons has agreed to implement its stormwater pollution plan and pay \$15,000 to the Maryland Clean Water Fund. **Status:** Case closed. (Reference #SA-03-0139).

Mangione Enterprises of Turf Valley – Howard County – On November 19, 2002, MDE and Mangione Enterprises finalized an administrative Settlement Agreement to resolve Administrative Complaint, Order

and Penalty #AO-01-0112 issued on November 30, 2000 for alleged sediment control, sediment pollution, water pollution and waterway construction violations at the Turf Valley Golf Course in Howard County. Under the terms of the Settlement Agreement, Mangione Enterprises has agreed to pay \$5,000 to the Maryland Sediment Fund within 30 days and to submit to MDE for review and approval within 65 days, a plan and schedule for implementation of a supplemental environmental project (SEP Plan) for the restoration, including habitat improvements and stabilization, of the north stream bank of the Little Patuxent River along the East Course of the Turf Valley Resort. Mangione Enterprises has agreed to expend a minimum of \$150,000 toward implementation of the approved SEP Plan or pay the lesser of the sum of \$45,000 or the unexpended value of the SEP Plan to the Sediment Fund. **Status:** Case closed. (Reference #SA-03-0161).

Nicholas B. Mangione – Baltimore County – On December 2, 2002, MDE and Nicholas B. Mangione finalized an administrative Settlement Agreement to resolve Administrative Complaint and Penalty #AP-03-0013 issued against Mr. Mangione on July 21, 2002 alleging violations of Maryland water pollution control laws at a construction site located on Hernwood Road in Baltimore County. Specifically, the Complaint alleged that Mr. Mangione failed to obtain coverage under MDE's General Stormwater Discharge Permit for Construction Activity for the WCBM radio tower construction site. Under the terms of the Settlement Agreement, Mr. Mangione has paid \$5,000 to the Maryland Sediment Fund. **Status:** Case closed. (Reference #SA-03-0148).

Kishor Kaswala – Charles County – On December 2, 2002, the Circuit Court of Charles County filed a Consent Order signed by Judge Steven G. Chappelle on November 24, 2002 between MDE and Kishor Kaswala to resolve civil Complaint #C-01-0408 filed by MDE on March 8, 2001 regarding water pollution violations at the Budget Motel wastewater treatment plant located at 9340 Crain Highway in Bel Alton, Maryland. Under the terms of the Consent Order, the owner, Mr. Kaswala, is required to continue to contract with a licensed sewage hauler to transport sewage from the Budget Motel wastewater treatment plant to a permitted wastewater treatment facil-

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For the Record

The following is a partial list by county of applications received by MDE and other permitting activity between November 16, 2002 and December 15, 2002. For more information on these permits, please contact MDE's Environmental Permit Service Center at (410) 537-3772.

Allegany

FRANK & ELEANOR HEAVNER, AL-10 - 18500 Rolling Hills Lane, Flintstone, MD 21530. Sewage sludge application on agricultural land

IA CONSTRUCTION CORP-ROCK CUT PLANT - Route 36, 3 Miles West, Cumberland, MD 21502. (TR7837) An air permit to construct for modification to asphalt plant to allow alternate fuel

JENKINS DEVELOPMENT CO - Lonaconing, MD (SM-87-411) Insignificant Modification to Permit

JOHN DUCKWORTH COAL COMPANY - FROSTBURG - Route 36, Franklin Siding, Gannon, MD 21562. (2003-001-00175) Air quality permit to operate

UNITED ENERGY COAL, INC. - Frostburg, MD (SM-84-368) Insignificant Modification to Permit

Anne Arundel

BAR HARBOR AUTO BODY - 8201 Ritchie Highway, Pasadena, MD 21122. (TR7842) Received an air permit to construct for one paint spray booth

BERT JABIN, OWNER, 705 Warren Drive, Annapolis, MD 21403. Voluntary Cleanup Program application seeking a No Further Requirements Determination as a responsible person for the 0.082-acre property located at 203 Eastern Avenue, Annapolis, MD 21403

CUNNINGHAM SAND & GRAVEL, INC. - Crofton, MD (78-sp-0087-F) Renewal for a surface mine permit is located on Route 3 S. on Capitol Raceway Road

NORTHROP GRUMMAN SYSTEMS CORP ES - 1212 Winterson Road, Linthicum, MD 21090. (TR7743) An air permit to construct for modification to dry processing/deposition in F module

NORTHROP GRUMMAN SYSTEMS CORP ES - 1212 Winterson Road, Linthicum, MD 21090. (TR7744) An air permit to construct for modification of wet processing in F Module

NORTHROP GRUMMAN SYSTEMS CORP. - 7323 Aviation Boulevard, Linthicum, MD 21090. (TR7741) An air permit to construct for one vapor degreaser

VALLEY PROTEINS - BALTIMORE DIVISION - 1515 Open Street, Baltimore, MD 21226. (2003-OPT-3526) Oil operations permit for above ground storage tank and transportation

VALVOLINE INSTANT OIL CHANGE - 5515 Ritchie Highway, Brooklyn Park, MD 21225.

(2003-OPT-14982) Oil operations permit for above ground storage tank and transportation

VALVOLINE INSTANT OIL CHANGE-ANNAPOLIS - 1922 West Street, Annapolis, MD 21401. (2003-OPT-14983) Oil operations permit for above ground storage tank and transportation

VALVOLINE INSTANT OIL CHANGE-GLEN BURNIE - 7391 Baltimore Annapolis Boulevard, Glen Burnie, MD 21060. (2003-OPT-14984) Oil operations permit for above ground storage tank and transportation

YACHT ENTERPRISES LIMITED PARTNERSHIP, 705 Warren Drive, Annapolis, MD 21403. Voluntary Cleanup Program application seeking a No Further Requirements Determination as a responsible person for the 0.245-acre Yacht Enterprises Limited Partnership property located at 201 Eastern Avenue and 712, 714 Second Street, Annapolis, MD 21403

Baltimore City

B & B FUEL OIL CO. - 1361 W. North Avenue, Baltimore, MD 21217. (2003-OPV-2147) Oil operations permit for transportation

BALTIMORE CITY DEPARTMENT OF RECREATION & PARKS - 2600 Madison Avenue, Baltimore, MD 21217. (02-1207) Sewerage permit to replace wastewater treatment facilities at the Fort Smallwood Park

FORT AVENUE PROPERTIES LLC, 1040 Hull Street, Suite 200, Baltimore, MD 21230. Voluntary Cleanup Program application seeking a No Further Requirements Determination as an inculpable person for the 1.60-acre property located at 925 Fort Avenue (Ludlow and Key Highway), Baltimore, MD 21230

GEO SPECIALTY CHEMICALS - 1920 Benhill Avenue, Baltimore, MD 21226. (TR7752) An air permit to construct for one scrubber

GRACE DAVISON - 5500 Chemical Road, Baltimore, MD 21226. (TR7751) An air permit to construct for modification calciner w/replacement of 12 burners

JEFFY LUBE INTERNATIONAL-STORE #180 - 2311 Orleans Street, Baltimore, MD 21224. (2003-OPT-6191) Oil operations permit for above ground storage tank and transportation

JEFFY LUBE INTERNATIONAL-STORE #275 - 2900 Mathews Street, Baltimore, MD 21218. (2003-OPT-6192) Oil operations permit for above ground storage tank and transportation

MOODY & SONS FUEL OIL CO., INC. - 2800 E. Eager Street, Baltimore, MD 21205. (2003-OPV-2530) Oil operations permit for transportation

MOTIVA ENTERPRISES LLC - 3445 Fairfield Avenue, Baltimore, MD 21226. (TR7838) An air permit to construct for one 6,000-gallon fixed roof storage tank

MOTIVA ENTERPRISES LLC - 3445 Fairfield Avenue, Baltimore, MD 21226. (TR7849) An air permit to construct for one 2.1 million gallon storage tank

SBER HARBOR POINT LLC, 1040 Hull Street, Suite 200, Baltimore, MD 21230. Voluntary Cleanup Program application seeking a No Further Requirements Determination as an inculpable person for the 6.0-acre Harbor Point (Areas 2 and 3) property located at 1400, 1401, 1410, 1412, 1431 Block Street; 900, 902 S. Caroline Street; 1401 Philpot Street; 1423 Dock Street, Baltimore, MD 21231

THE PQ CORPORATION - 1301 East Fort Avenue, Baltimore, MD 21230. (2003-OPT-2595) Oil operations permit for above ground storage tank and transportation

Baltimore County

BABIKOW GREENHOUSE - 7838 Babikow Road, Baltimore, MD 21237. (2003-OPT-6262) Oil operations permit for above ground storage tank and transportation

MCCORMICK & COMPANY, INC. - GILROY ROAD - 10901 Gilroy Road, Hunt Valley, MD 21031. (2003-005-01602) Air quality permit to operate

SHIRE US MANUFACTURING, INC. - 11200 Gundry Lane, Owings Mills, MD 21117. (TR7850) An air permit to construct for one coating system

SIGNODE EASTERN OPERATIONS - 4505 North Point Boulevard, Baltimore, MD 21219. (TR7736) An air permit to construct for modification to metal coil coating line

VALVOLINE INSTANT OIL CHANGE-COCKEYSVILLE - 10807 York Road, Cockeysville, MD 21030. (2003-OPT-15009) Oil operations permit for above ground storage tank and transportation

Caroline

DAVID RICE, CR-75 - 9555 Fisher Road, Denton, MD 21629. Sewage sludge application on agricultural land

GLENN BLOUGH, CR-76 - 9620 New Bridge Road, Denton, MD 21629. Sewage sludge application on agricultural land

HOBBS ROAD RUBBLE LANDFILL - 26375 Hobbs Road, Denton, MD 21629. (02-DP-2787) Solid waste groundwater discharge permit for rubble landfill

MIKE DAVIDSON SAND & GRAVEL, LLC - 15890 Oakland Road, Henderson, MD 21640-1315. (TR7841) An air permit to construct for one sand dryer

MILDRED KIBLER, CR-73 - 27514 Whitesburg Road, Greensboro, MD 21639. Sewage sludge application on agricultural land

WALTER G. KERSLAKE JR., CR-111 - 23414 Thawley Road, Denton, MD 21629. Sewage sludge application on agricultural land

Carroll

CATOCTIN MOUNTAIN GROWERS - 8051 Sixes Bridge Road, Detour, MD 21757. (2003-OPT-6207) Oil operations permit for above

ground storage tank and transportation

COLONIAL PIPELINE COMPANY - WOODBINE - 929 Hoods Mill Road, Woodbine, MD 21797. (2003-ODS-3068) Surface water discharge for oil terminal

ROLL-OFF EXPRESS, INC. - 2900 Dede Road, Finksburg, MD 21048. (2002-WPF-0159) Solid waste processing facility and transfer station

Cecil

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS - Cecil County Court House - Room 308, 129 East Main Street, Elkton, MD 21921. (02-1205) Sewerage permit to construct gravity sewers and force mains along Maudin Avenue and MD Route 7

HARBISON-WALKER REFRACTORIES - NORTHEAST - Red Toad Road, Drawer A, North East, MD 21901. (2003-OPT-3239) Oil operations permit for above ground storage tank and transportation

WEST NOTTINGHAM ACADEMY WWTP - 1079 Firetower Road, Colora, MD 21917. (03DP2359) Groundwater municipal discharge permit

Charles

BARDON, INC. - Greenbelt, MD (00-SP-0560-1) Modification and Transfer application for a surface mine

BARDON, INC. - Greenbelt, MD (97-SP-0524-1) Modification and Transfer application for a surface mine located Maryland Route 6, east approximately 900 feet east of Dubois.

CHARLES COUNTY GOVERNMENT - P. O. Box 2150, La Plata, MD 20646. (02-1198) Sewerage permit to upgrade the biological nitrogen removal process at the Mattawoman Wastewater Treatment Plant

NAVAL SURFACE WARFARE CENTER / INDIAN HEAD DIVISION - 101 Strauss Avenue - Building D-327, Indian Head, MD 20640. (02-1201) Sewerage permit to upgrade Brine treatment system at the Naval Surface Warfare Center

Frederick

EASTALCO ALUMINUM COMPANY - 5601 Manor Woods Road, Frederick, MD 21703. (TR7734) An air permit to construct for one spent anode bath cleaning system

FORT DETRICK - AREA A - E. Of Beasley Dr, N. Of Davis Road, Frederick, MD 21701. (2003-OPT-3190) Oil operations permit for above ground storage tank and transportation

FOUNTAINDALE WWTP - Beechtree Drive, Middletown, MD 21769. (03DP0668) Surface municipal discharge permit

FREDERICK COUNTY DIVISION OF UTILITIES AND SOLID WASTE MANAGEMENT - 118 N. Market Street, Frederick, MD 21701. (02-1203) Sewerage permit to construct the Royal

Continued on next page

For the Record

Oaks Wastewater Pumping Station at Old New Market Road and Wainscot Drive, New Market

LEWISTOWN SCHOOL WWTP - 11119 Hessong Bridge Road, Lewistown, MD 21788. (03DP0730) Surface municipal discharge permit

MYERSVILLE WWTP - Milt Summers Road, Myersville, MD 21773. (03DP0124) Surface municipal discharge permit

Garrett

GARRETT COUNTY SANITARY COMMISSION - 14689 Garrett Highway, Oakland, MD 21150. (02-1179) Water permit to construct Deer Park water system at the end of Decost Road, south of Deer Park

JEREMY JASON PRESTON - Lonaconing, MD (03-SP-0606) Permit to surface mine located on from I-68 take Finzel Exit south 4.5 miles on Frostburg Road

RIGIDPLY RAFTERS INC. - 1283 Joni Miller Road, Oakland, MD 21550. (2003-OPT-6294) Oil operations permit for above ground storage tank and transportation

SWALLOW FALLS STATE PARK WWTP - Swallow Falls Road, Oakland, MD 21550. (03DP1209) Surface municipal discharge permit

VINDEX ENERGY CORPORATION - Kitzmiller, MD (SM-02-443) Insignificant Modification to Permit

Harford

JOSEPH HOOPES FARM, HF-27 - 2431 Conowingo Road, Bel Air, MD 21015. Sewage sludge application on agricultural land

MOUNTAIN CHRISTIAN CHURCH - 1824 Mountain Road, Joppa, MD 21085. (02-1199) Sewerage permit to construct septic pretreatment system at the Mountain Christian Church at Mountain Road and Jerusalem Road

REDLAND GENSTAR DBA LAFARGE - 810 Pulaski Highway, Joppa, MD 21085. (TR7851) An air permit to construct for one portable crusher

Howard

AUTO BODY IMAGES - 8844A Washington Boulevard, Jessup, MD 20794. (TR7843) An air permit to construct for two paint spraybooths

AUTUMN RIVER CORPORATION - 4100 College Avenue, Ellicott City, MD 21043. (02-1206) Sewerage permit to construct a wastewater pumping station and a force main along College Avenue, Ellicott City

HOMELAND SENIOR LIVING COMMUNITY - Marriottsville & Frederick Roads, Ellicott City, MD 21043. (03DP3435) Groundwater municipal discharge permit

ROUSE COLUMBIA CONTRIBUTION, LLC, 10275 Little Patuxent Parkway, Columbia, MD 21044. Voluntary Cleanup Program application seeking a No Further Requirements Determination as a responsible person for the 6.0-acre Oakland Mills Village Center property located at 5865 Robert Oliver Place, Columbia, MD 21045

ROUSE COLUMBIA CONTRIBUTION, LLC, 10275 Little Patuxent Parkway, Columbia, MD

21044. Voluntary Cleanup Program application seeking a No Further Requirements Determination as a responsible person for the 7.3-acre Wilde Lake Village Center property located at 10451 and 10471 Twin Rivers Road, Columbia, MD 21045

SPRINT ELKRIDGE SWITCH - 6050 Race Road, Elkridge, MD 21075. (2003-OPT-15019) Oil operations permit for above ground storage tank and transportation

Kent

DAVID A. BRAMBLE, INC. - 12217 Galena Road, Massey, MD 21650. (TR7840) An air permit to construct for one Astec asphalt shingle recycle system

Montgomery

ACCUBID EXCAVATION, INC. - 11300 River Road, Potomac, MD 20854. (TR7740) An air permit to construct for one portable crushing plant

EUROPROS COLLISION CENTER, INC. - 949-951 North Frederick Avenue, Gaithersburg, MD 20879. (TR7735) An air permit to construct for one paint spraybooth

MEDIMMUNE, INC. - One Medimmune Way, Gaithersburg, MD 20878. (TR7746) An air permit to construct for one boiler > 10 MMBtu

Prince George's

AGGREGATE INDUSTRIES-BLADENSBURG - 2800 52nd Avenue, Bladensburg, MD 20710. (TR7855) An air permit to construct for one 400-tph pug mill

BARDON, INC. - Greenbelt, MD (98-SP-0532-1) Transfer application for a surface mine located Route 373 west to Gardner Road

PEPCO-OAK GROVE SUBSTATION 122 - 3132 Brown Station Road, Upper Marlboro, MD 20772. (2003-OPT-6219) Oil operations permit for above ground storage tank and transportation

RUBBLE BEE RECYCLING & DEMOLITION - 8500 Westphalia Road, Unit B, Upper Marlboro, MD 20774. (TR7749) An air permit to construct for one temporary crushing plant

Queen Anne's

DAVID A. BRAMBLE - WYE MILLS - 451 Starr Grange Hall Road, Wye Mills, MD 21679. (2003-OPT-3116) Oil operations permit for above ground storage tank and transportation

DAVID A. BRAMBLE, INC. - 451 Grange Hall Road, Wye Mills, MD 21679. (TR7839) An air permit to construct for one baghouse

TOWN OF CENTREVILLE - 101 Lawyer's Row, Centreville, MD 21617. (02-1202) Sewerage permit to upgrade the Centreville Wastewater Treatment Plant

WILLIAM EDWARD LEAGER - Price Station, MD (03-SP-0607) New application for a surface mine located east of Route 301 south side of 405 in Price

St. Mary's

RONALD E. BUCKER - Mechanicsville, MD (94-SP-0462-B) Modification application for a surface mine located 1/2 mile west of MD Route 236

Talbot

BARKER'S LANDING PIT - 7140 Barker's Landing Road, Easton, MD 21601. Sewage sludge application on agricultural land

DAVID A. BRAMBLE INC. - EASTON - 881 Port Street, Easton, MD 21601. (2003-OPT-2183) Oil operations permit for above ground storage tank and transportation

GANNON FAMILY LIMITED PARTNERSHIP, TA-51 - Corner of Black Dog Alley & Route 328, Easton, MD 21601. Sewage sludge application on agricultural land

GORDON BEHRENS, TA-4 - 30522 Skipton Cordova Road, Cordova, MD 21625. Sewage sludge application on agricultural land

Washington

BROADFORDING BIBLE CHURCH WWTP - 13523 Broadfording Road, Hagerstown, MD 21740. Sewage sludge transportation permit

ENGINEERED POLYMER SOLUTIONS, INC. - 16414 Industrial Lane, Williamsport, MD 21795. (TR7739) An air permit to construct for one condenser

MARYLAND CORRECTIONAL INSTITUTION - 18601 Roxbury Road, Hagerstown, MD 21740. Sewage sludge transportation permit

TOP FLIGHT AIRPARK, INC. - 18450 Showalter Road #100, Hagerstown, MD 21742. (2003-OPT-4518) Oil operations permit for above ground storage tank and transportation

Worcester

DAVID REAVES, INC. - 12023 Saturn Lane, Bishopville, MD 21813. (2002-NWW-0036) Natural Woodwaste Permit

FROSTROM & SONS, INC. - 1727 Market Street, Pocomoke City, MD 21851. (03DP2481) Groundwater industrial discharge permit

Out Of State

BAGWELL OIL COMPANY, INC. - 33 Market Street, Onancock, VA 23417. (2003-OPV-2151) Oil operations permit for transportation

CROSSETT INC. - 201 S. Carver Street, Warren, PA 16365. (2003-OPV-2258) Oil operations permit for transportation

FANNON PETROLEUM SERVICE, INC. - 1300 Block Of Duke Street, Alexandria, VA 22314. (2003-OPV-2321) Oil operations permit for transportation

PENN-MAR OIL CO., INC. - 406 Grant Street, Chambersburg, PA 17201. (2003-OPV-2578) Oil operations permit for transportation

ISSUANCES

Allegany

FROSTBURG STATE UNIVERSITY - 101 Braddock Road, Frostburg, MD 21532. (001-5-0171 & 0172) Air general permit to construct for two boilers < 10 MMBtu

MARYLAND STATE HIGHWAY ADMINISTRATION - 1221 Braddock Road, West, LaVale, MD 21504. (001-9-0117) Air general permit to construct for one 10,000 gallon gasoline underground storage tank

RAWLINGS WWTP - Conda Way Extended, Rawlings, MD 21557. (94DP0739) Surface municipal discharge permit

UNITED ENERGY COAL, INC. - Frostburg, MD (SM-84-368) Insignificant Modification to Permit

Anne Arundel

AMOCO SERVICE STATION #1057 - 1156 Route 3, North, Gambrills, MD. (003-9-0777) Air general permit to construct for one soil remediation system

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS - 2662 Riva Road, Annapolis, MD 21401. (02-25-1064) Sewerage permit to upgrade clarifiers at the Cox Creek Wastewater Reclamation Facility

CROWNSVILLE HOSPITAL CENTER - 1520 Crownsville Road, Crownsville, MD 21032. (2003-OPT-3097) Oil operations permit for above ground storage tank and transportation

D & M WHOLESALE - 8027 Fort Smallwood Road, Curtis Bay, MD 21226. (003-6-1003-N) Air permit to construct for one paint spraybooth

EXXON-ARUNDEL MILLS - 7671 Arundel Mills Boulevard, Hanover, MD 21076. (003-9-0776) Air general permit to construct for two 15,000 gallon underground storage tanks

GEORGE P. KALAS FUNERAL HOME, P.A. - 2973 Solomons Island Road, Edgewater, MD 21037. (003-1-0059 N) Air permit to construct for one crematory

MARYLAND STATE HIGHWAY ADMINISTRATION - 910 Stewart Avenue, Glen Burnie, MD 21061. (003-9-0745) Air general permit to construct for one 10,000 gallon gasoline underground storage tank

Baltimore City

AMOCO STATION (FORMER) - 2901 North Avenue, West, Baltimore, MD. (510-9-0970) Air general permit to construct for one soil remediation system

BALTIMORE CITY DEPARTMENT OF PUBLIC WORKS - Abel Wolman Municipal Building, 200 N. Holliday Street, Baltimore, MD 21202. (02-25-1180) Sewerage permit to improve low-level sewer facilities at the Patapsco Wastewater Treatment Plant

BEST CHOICE CLEANERS - 3401 Belair Road,

Continued on next page

For the Record

Baltimore, MD 21213. (510-6-2618) Air general permit to construct for one dry cleaning machine

BFI WASTE SERVICES, LLC - DICKMAN STREET - 260 West Dickman Street, Baltimore, MD 21230. (2003-OPT-6260) Oil operations permit for above ground storage tank and transportation

D & G BRICE CONTRACTORS, INC. - 2901 Waterview Avenue, Baltimore, MD 21230. (2003-OPT-4313) Oil operations permit for above ground storage tank and transportation

DANIEL G. SCHUSTER, L.L.C. - 3625 E. Monument Street, Baltimore, MD 21205. (510-6-2617 N) Air permit to construct for one portable ready mixed concrete plant

GRACE DAVISON - 5500 Chemical Road, Baltimore, MD 21226. (510-7-1095 M) Air permit to construct for one baghouse

GRACE DAVISON - 5500 Chemical Road, Baltimore, MD 21226. (510-7-1095 M) Air permit to construct for modification to silica gel operations

GREENSPRING CLEANERS - 1040 West 41st Street, Baltimore, MD 21211. (510-6-2614) Air general permit to construct for one dry cleaning machine

MAYOR AND COUNCIL OF BALTIMORE - 9th floor, Wolman Municipal Office Building, Lexington Street and Holliday Street, Baltimore, MD 21202. (02-22-1138) Sewerage permit to rehabilitate the Eastern Avenue Wastewater Pumping Station and force main

PETERBILT OF CENTRAL MARYLAND, LLC - 5100 Holabird Avenue, Baltimore, MD 21224. (510-6-2616 N) Air permit to construct for one paint spray booth

RHODIA, INC. - 3440 Fairfield Road, Baltimore, MD 21226. (510-7-1634 M) Air permit to construct for modification to monomers process line

ST SERVICES - 1800 Frankfurst Avenue, Baltimore MD 21226. (510-6-2619 N) Air permit to construct for loading operation

SURF'S-UP BODY SHOP - 5020 Wabash Avenue, Baltimore, MD 21215. (510-6-2613 N) Air permit to construct for one paint spray booth

UNITED STATES GYPSUM COMPANY - 5500 Quarantine Road, Baltimore, MD 21226. (24-6-0879 M) Air permit to construct for two clay feed systems and two baghouses

VERIZON - YORK ROAD CO (GLC 26064) - 5711 York Road, Baltimore, MD 21212. (510-9-0974 N) Air permit to construct for one emergency generator

W.R. GRACE-CONN. - 5500 Chemical Road, Baltimore, MD 21226. (510-7-1077 M) Air permit to construct for two semi-bulk packers

WARTHEN FUEL CO., INC. - 4012 Benson Avenue, Arbutus, MD 21227. (2003-OPT-2740) Oil operations permit for above ground storage tank and transportation

Baltimore County

BALTIMORE YACHT CLUB - 800 Baltimore Yacht Club Road, Baltimore, MD 21221. (005-

9-1177) Air general permit to construct for three 10,000-gallon underground gasoline storage tanks

BETHLEHEM STEEL CORPORATION - 5111 North Point Boulevard, Sparrows Point, MD 21219. (005-6-2722 N) Air permit to construct for one wastewater treatment plant

DELTA LUBE, INC. - 510 Main Street, Reisterstown, MD 21136. (2003-OPT-6193) Oil operations permit for above ground storage tank and transportation

E.C.C.A. CALCIUM PRODUCTS, INC. - Rosewell, MD (97-SP-0511) Renewal for a surface mine permit located on I-83 to Padonia Road

E.C.C.A. CALCIUM PRODUCTS, INC. - 10000 Beaver Dam Road, Cockeysville, MD 21030. (005-02322) Air quality permit to operate

FRAMES TO FLAMES - 11437 Pulaski Highway, Baltimore, MD 21162. (005-6-2721-N) Air permit to construct for one paint spray booth

GOUCHER COLLEGE - 1021 Dulaney Valley Road, Towson, MD 21204. (005-5-2581) Air general permit to construct for one boiler < 10 MMBtu

GRAY & SON, INC. - 2401 Stringtown Road, Butler, MD 21023. (2003-OPT-4180) Oil operations permit for above ground storage tank and transportation

HEIDTMAN STEEL PRODUCTS, INC. - 2121 Grays Road, Baltimore, MD 21222. (005-5-1730 thru 1733) Air general permit to construct for four boilers < 10 MMBtu

HOME FUEL - 2513 Ruth Avenue, Baltimore, MD 21085. (2003-OPV-2405) Oil operations permit for transportation

LIBERTY OIL COMPANY, INC. - 1401 E. Homberg Avenue, Essex, MD 21221. (2003-OPT-2461) Oil operations permit for above ground storage tank and transportation

MARYLAND STATE HIGHWAY ADMINISTRATION - 2323 Joppa Road, West, Brooklandville, MD 21022. (005-9-0380) Air general permit to construct for two 10,000 gallon gasoline underground storage tanks

ROYAL FARMS STORE - 3505 Washington Boulevard, Baltimore, MD 21227. (005-9-1176) Air general permit to construct for one 20,000 & one 10,000 gallon gasoline underground storage tanks

SCHMIDT BAKING CO. FULLERTON PLANT - 7801 Fitch Lane, Baltimore, MD 21236. (05-8-0163 M) Air permit to construct for one catalytic oxidizer

UNIVERSITY OF MARYLAND-BALTIMORE - 1000 Hilltop Circle, Baltimore, MD 21250. (005-5-1711 & 5-1712 N) Air permit to construct for two boilers >10 MMBtu

VIRGINIA MATERIALS, INC. - 1001 Carroll Island Road, Baltimore, MD 21220. (005-6-2703 N) Air permit to construct for one coal crusher, dryer & screen

Calvert

HUNTINGTOWN HIGH SCHOOL - 4000 Block Solomons Island Road, Huntingtown, MD

20639. (02DP3411) Groundwater municipal discharge permit

Carroll

MASON DIXON BUILDERS, INC. - 7428 Gaither Road, Sykesville, MD 21784. (02-13-1170) Water permit to construct a water pumping station at the site of Rowe Road near Springdale Avenue, New Windsor

MILLER ASPHALT - WESTMINSTER - 390 Vision Way, Westminster, MD 21158. (013-00046) Air quality permit to operate

MILLER ASPHALT PRODUCTS, INC. - 2803 Dede Road, Finksburg, MD 21048. (013-00102) Air quality permit to operate

SPRINGFIELD HOSPITAL CENTER - M & S - 1 Fourth Street, West, Sykesville, MD 21784. (013-5-0056) Air general permit to construct for one boiler < 10 MMBTU

SPRINGFIELD HOSPITAL CENTER- 10 Springfield Avenue, Sykesville, MD 21784. (013-5-0059) Air general permit to construct for one A.O. Smith LB-1000 boiler < 10 MMBTU

SPRINGFIELD HOSPITAL CENTER- 11 Springfield Avenue, Sykesville, MD 21784. (013-5-0058) Air general permit to construct for boiler < 10 MMBTU

SPRINGFIELD HOSPITAL CENTER-CARPENTRY - 26A Springfield Avenue, Sykesville, MD 21784. (013-5-0061) Air general permit to construct for one Fulton ICS-50 boiler < 10 MMBTU

SPRINGFIELD HOSPITAL CENTER-GERIATRIC - 4 Fourth Street, East, Sykesville, MD 21784. (013-5-0054 & 0055) Air general permit to construct for two boilers < 10 MMBTU

SPRINGFIELD HOSPITAL CENTER-HITCHMAN - 2 Fourth Street, East, Sykesville, MD 21784. (013-5-0053) Air general permit to construct for one boiler <10 MMBTU

SPRINGFIELD HOSPITAL CENTER-MAINTENANCE - 9 Fourth Street, West, Sykesville, MD 21784. (013-5-0057) Air general permit to construct for one Burnham V906A boiler <10 MMBTU

SPRINGFIELD HOSPITAL CENTER-MCKELDON - 4 Third Street, Sykesville, MD 21784. (13-5-0050 & 0051) Air general permit to construct for two boilers < 10 MMBTU

SPRINGFIELD HOSPITAL CENTER-POWER HOUSE - 25 Springfield Avenue, Sykesville, MD 21784. (013-5-0060) Air general permit to construct for one Fulton ICS—30 boiler < 10 MMBTU

SPRINGFIELD HOSPITAL CENTER-VOC-REHAB - 5 Third Street, Sykesville, MD 21784. (013-5-0052) Air general permit to construct for one boiler < 10 MMBTU

THE BEES DISTRIBUTING COMPANY, INC. - 2920 Dede Road, Finksburg, MD 21048. (02DP2477) Groundwater industrial discharge permit

WESTMINSTER LAWN SERVICE, INC. - 113 John Street, Westminster, MD 21157. (02DP3204) Groundwater discharge permit with storm water authorization

Cecil

D. M. STOLTZFUS & SONS - ELK MILLS QUARRY - 896 Elk Mills Road, Elk Mills, MD 21920. (015-00003) Air quality permit to operate

IKEA PROPERTIES, INC. - 496 West Germantown Pike, Plymouth MTG, PA 19462. (02-22:23-1204) Sewerage permit to construct a wastewater pumping station and a force main along MD Route 327, south of MD Route 7

MORNING CHEER - 60 East Sandy Cove Road, North East, MD 21901. (99DP1108) Surface municipal discharge permit

R.T. FOARD FUNERAL HOME, P.A. - 111 South Queen Street, Rising Sun, MD 21911. (015-1-0020 N) Air permit to construct for one crematory

ROCK SPRINGS GENERATION FACILITY - 1423 Rock Springs Road, Rising Sun, MD 21911. (2003-OPT-11150) Oil operations permit for above ground storage tank and transportation

ROCK SPRINGS GENERATION FACILITY - 1423 Rock Springs Road, Rising Sun, MD 21911. (24-015-00202) Air quality permit to operate

Charles

AGGREGATE INDUSTRIES - BILLINGSLEY ROAD - 12205 Billingsley Road, Waldorf, MD 20602. (017-00150) Air quality permit to operate

AGGREGATE INDUSTRIES - LA PLATA SAND & GRAVEL & CONCRETE PLANT - 9622 Rosewick Road, 1668 Washington Avenue, La Plata, MD 20646. (00MM9758) General permit registration for discharge from concrete plant

BARDON, INC. - COLDSRING SAND & GRAVEL - 8835 Gunston Road, Welcome, MD 20693. (00MM9763) General permit registration for discharge from surface mine

BARDON, INC. - QUEEN SAND AND GRAVEL - 16440 Gardner Road, Waldorf, MD 20601. (00MM9762) General permit registration for discharge from surface mine

MARYLAND ROCK INDUSTRIES - GOOSE BAY PLANT - 7210 Riverside Road, Indian Head, MD 20640. (2003-OPT-4176) Oil operations permit for above ground storage tank and transportation

WILLETT PIT II - MOORE PROPERTY - 10300 Block Of Billingsley Road, White Plains, MD 20695. (00MM9760) General permit registration for discharge from surface mine

Dorchester

BILL PAT FARMS, LLC., DR-59 - 4710 Ravenwood Road, Vienna, MD 21869. (S-99-09-4553-A3) Sewage sludge application on agricultural land

FEDEX FREIGHT EAST, INC. FEDERALSBURG CC - 4810 Williamsburg Road - Unit 8, Hurlock, MD 21643. (97SW1685) General permit registration for stormwater associated with industrial activity

Continued on next page

For the Record

PERDUE FARMS, INC. - HURLOCK - 37 Delaware Avenue, Hurlock, MD 21643. (2003-OPT-6144) Oil operations permit for above ground storage tank and transportation

Frederick

DAN'S AUTO BODY SHOP - 5909 Enterprise Court, Frederick, MD 21703. (02DP2708) Groundwater industrial discharge permit

FREDERICK ASPHALT CO., LLC - 4120 Buckeystown Pike, Frederick, MD 21701. (021-6-0357 M) Air permit to construct for one baghouse, one cyclone

HAILEY DEVELOPMENT, L. C. - 3905 National Drive - Suite 105, Burtonsville, MD 20866. (02-23-1068) Sewerage permit to construct a wastewater pumping station at Galyn Manor, Point of Rocks Road, northeast of Souder Road

LAFARGE NORTH AMERICA-FREDERICK QUARRY - South Street Extension, Frederick, MD 21701. (021-9-0028 M) Air permit to construct for modification to crusher plant

LEHIGH CEMENT COMPANY - 10642 Woodsboro Road, Woodsboro, MD 21798. (021-6-0494 M) Air permit to construct for one 200-ton shipping silo

MOUNT ST. MARY'S COLLEGE - 16300 Old Emmitsburg Road, Emmitsburg, MD 21727. (99DP0690) Surface municipal discharge permit

TOWN OF MIDDLETOWN - 31 West Main Street, Middletown, MD 21769. (02-16-1162) Water permit to construct water treatment facility at the Well House #15.

Garrett

ANKER WV MINING CO, INC. - Steyer, MD (DM-90-109) Insignificant Modification to Permit

SWALLOW FALLS STATE PARK WWTP - Swallow Falls Road, Oakland, MD 21550. (S-02-11-4938-T) Sewage sludge transportation permit

VINDEX ENERGY CORPORATION - Kitzmiller, MD (SM-02-443) Insignificant Modification to Permit

Harford

BELAIR TOWN CENTER CLEANERS - 550 Baltimore National Pike, Belair, MD 21014. (025-6-0384) Air general permit to construct for one dry cleaning machine

ISGOOD LLC. - 2700 Philadelphia Road, Edgewood, MD 21040. (02-25-1104) Sewerage permit to construct septic pretreatment system at the Arena Club, in the vicinity of Churchville Road and Shuck's Road

MARYLAND STATE HIGHWAY ADMINISTRATION - 3050 Churchville Road, Churchville, MD 21028. (025-9-106) Air general permit to construct for one 10,000 gallon gasoline underground storage tank

REDLAND GENSTAR DBA LAFARGE - 810 Pulaski Highway, Joppa, MD 21085. (025-6-0387 N) Air permit to construct for one portable crusher

THOMPSON MOTOR GROUP - 1107 Business Center Way, Edgewood, MD 21040. (025-6-0385-N and 025-6-0386-N) Air permit to construct for two paint spraybooths

WORLDCOM - 2606 Carsins Run Road, Unit A, Aberdeen, MD 21001. (025-9-0333N & -0334N) Air permit to construct for two emergency generators

Howard

EXXON MOBIL SERVICE STATION, 2-0311 - 7311 Washington Boulevard, Elkridge, MD 21075. (2003-OGR-4969) General permit for treated groundwater from oil contaminated sources

MARYLAND STATE HIGHWAY ADMINISTRATION - 4401 Route 32, Dayton, MD 21036. (027-9-0248) Air general permit to construct for one 10,000 gallon gasoline underground storage tank

NESCHEN CORPORATION - 7091 Troy Hill Drive, Elkridge, MD 21075. (027-6-0361 N) Air permit to construct for one coater

TRANSCONTINENTAL GAS PIPE LINE CORP - 11910 Carroll Mill Road - Station 190, Ellicott City, MD 21043. (027-9-0224 M) Air permit to construct for two internal combustion engines

Montgomery

ACCUBID EXCAVATION, INC. - 11300 River Road, Potomac, MD 20854. (031-6-0697 N) Air permit to construct for one portable crushing plant

CLARKSBURG TOWN CENTER - 1 Piedmont Road, Clarksburg, MD 20871. (02-12-1014) Water permit to lay water mains along Clarksburg Road and Frederick Road

DIAMOND ELEMENTARY SCHOOL - 4 Marquis Drive, Gaithersburg, MD 20878. (031-5-1288 & 1289) Air general permit to construct for two boilers < 10 MMBtu

FAIRLAND MAINTENANCE FACILITY-MDSH - 12020 Plum Orchard Drive, Silver Spring, MD 20904. (031-9-0648) Air general permit to construct for one 10,000 gallon gasoline underground storage tank

FAIRWAYS CONDOMINIUM - 3734 Bel Pre Road, Silver Spring, MD 20906. (031-5-1286 & 1287) Air general permit to construct for two boilers < 10 MMBtu

LAFARGE - SOUTHLAWN BLACKTOP PLANT - 14811 Southlawn Lane, Rockville, MD 20850. (031-01385) Air quality permit to operate

MARYLAND STATE HIGHWAY ADMINISTRATION - 502 Quince Orchard Road, Gaithersburg, MD 20878. (031-9-0667) Air general permit to construct for one 6,000 gallon gasoline underground storage tank

NATIONAL INSTITUTES OF HEALTH - 9000 Rockville Pike, Bethesda, MD 20892. (031-9-0968 N) Air permit to construct for two emergency generators

NAVAL SURFACE WARFARE CENTER - CARDEROCK - 9500 Macarthur Boulevard, West Bethesda, MD 20817. (2003-OPT-4070) Oil operations permit for above ground storage tank

and transportation

PINEY BRANCH SERVICE CENTER - 8875 Piney Branch Road, Silver Spring, MD 20901. (031-9-0690) Air general permit to construct for three 10,000 gallon gasoline underground storage tanks

QIAGEN SCIENCES, INC. - 19300 Germantown Road, Germantown, MD 20874. (031-9-0691, -0692 & 031-9-0693) Air permit to construct for two 2,500 gallon, one 8,000 gallon above ground storage tanks

SHADY GROVE ADVENTIST HOSPITAL - 14900 Broschart Road, Rockville MD 20850. (031-5-972 and 973 M) Air permit to construct for two boilers >10 MMBtu

SILVER SPRING METRO CENTER PHASE V - 1215 East West Highway, Silver Spring, MD 20910. (2003-OGR-4970) General permit for treated groundwater from oil contaminated sources

UNIVERSITY OF MD BIOTECHNOLOGY INS - 9600 Gudelsky Drive, Rockville, MD 20805. (031-5-1283 & 5-1284 N) Air permit to construct for two boilers >10 MMBtu

VERIZON GERMANTOWN CO (GLC 07225) - 19420 Walter Johnson Drive, Germantown, MD 20874. (031-9-0699 N) Air permit to construct for one emergency generator

WHEATON CHEVRON - 2204 University Boulevard, Wheaton, MD 20902. (031-9-0701) Air general permit to construct for two 12,000 and one 4,500 gallon gasoline underground storage tanks

Prince George's

ADELPHI LABORATORY CENTER - 2800 Powder Mill Road, Adelphi, MD 20783. (033-5-1042 & 1043) Air general permit to construct for two boilers < 10 MMBtu

BELTSVILLE SHELL - 10920 Baltimore Avenue, Beltsville, MD 20705. (033-9-1131) Air general permit to construct for one soil vapor extraction

CHOP IT - 7419 Baltimore Avenue, College Park, MD 20740. (033-8-0243) Air general permit to construct for one charbroiler

DANIEL G. SCHUSTER, L.L.C. - 5610 Tilden Road, Bladensburg, MD 20710. (033-6-1155) Air permit to construct for one portable concrete batch plant

FORT WASHINGTON MARINA - 13600 King Charles Terrace, Fort Washington, MD 20744. (02MA9119) General permit registration for discharge from marinas

HAVERFORD AT CHARWOOD, LLC, 6525 Belcrest Road, Suite 205, Hyattsville, MD 20782. No Further Requirements Determination issued by the Voluntary Cleanup Program for limited residential use of the 11.3-acre Northhampton, City of Largo property located at the intersection of Harry Truman Drive and Mount Lubentia Road, Largo, MD 20774

MARYLAND STATE HIGHWAY ADMINISTRATION - 400 Second Street, Laurel, MD 20707. (033-9-1111) Air general permit to construct for one 10,000 gallon gasoline underground storage tank

STRITTMATTER LAND, LLC - 6400 Van

Dusen Road, Laurel, MD 20707. (033-02364) Air quality permit to operate

UNIVERSITY OF MD-COOP. EXTENSION - 6200 Sheridan Street, Riverdale, MD 20737. (033-6-1156) Air general permit to construct for one printing press

VERIZON MARYLAND, INC. - LAUREL CO - 309 Carroll Avenue, Laurel, MD 20707. (033-9-1130 N) Air permit to construct for one emergency generator

VERIZON MD, INC.- BERWYN CO - 6315 Greenbelt Road, College Park, MD 20740. (033-9-1128 N) Air permit to construct for one emergency generator

Queen Anne's

ACME SUPER SAVER - 107 South Commerce Street, Centreville, MD 21617. (035-9-0040) Air general permit to construct for one 10,000 and one 15,000-gallon underground storage tank

MARYLAND STATE HIGHWAY ADMINISTRATION - 111 Safety Drive, Centreville, MD 21617. (035-9-0025) Air general permit to construct for one 10,000 gallon gasoline underground storage tank

RALPH WHALEY STANT FARM - 200 Stant Farm Lane, Price, MD 21656. (S-02-17-4881-A) Sewage sludge application on agricultural land

Somerset

MARYLAND STATE HIGHWAY ADMINISTRATION - 10980 Market Lane, Princess Anne, MD 21853. (039-9-0027) Air general permit to construct for one 6,000 gallon gasoline underground storage tank

St. Mary's

BARDON, INC. - YODER SAND AND GRAVEL - 27429 Thompson's Corner Road, Mechanicsville, MD 20659. (00MM9761) General permit registration for discharge from surface mine

MARYLAND ROCK INDUSTRIES, INC. - Leonardtown, MD (83-SP-0147) Renewal of a surface mine permit located east of Breton Beach Road, west of Route 244

NAVAL AIR STATION - 22445 Peary Road, Building 504, Patuxent River, MD 20670. (037-4-0148) Air general permit to construct for one boiler < 10 MMBtu

Talbot

MARYLAND STATE HIGHWAY ADMINISTRATION - 8265 Ocean Gateway, Easton, MD 21601. (041-9-0042) Air general permit to construct for one 10,000 gallon gasoline underground storage tank

Washington

ENGINEERED POLYMER SOLUTIONS, INC. - 16414 Industrial Lane, Section B, Williamsport, MD 21795. (043-00305) Air quality permit to operate

F.A.A. REMOTE TRANSMITTER SITE -

Continued on next page

Satellites offer new information on aerosols and climate

(NAPSI)-Thanks to an eye in the sky, there may soon be a clearer picture of weather on Earth.

Driven by precise new satellite measurements and sophisticated computer models, a team of NASA researchers is now routinely producing the first global maps of fine aerosols that distinguish plumes of human-produced particulate pollution from natural aerosols.

The researchers are working to measure more precisely the role human aerosol pollution plays in Earth's weather and climate systems.

Aerosols are tiny solid or liquid particles suspended in the atmosphere. "These particles are important because, depending upon the type of particles produced, human pollution can either have a warming or cooling influence on climate, and they can

either increase or decrease regional rainfall," said Yoram Kaufman, atmospheric scientist at NASA's Goddard Space Flight Center in Greenbelt.

For the first time ever, scientists are using the Moderate Resolution Imaging Spectroradiometer (MODIS) instrument which is located aboard NASA's Terra and Aqua satellites. The MODIS is used to measure the sunlight reflected by aerosols back to space every day over almost the entire planet at wavelengths spanning across the solar spectrum.

Aerosols produced by humans are the result of urban pollution, industrial combustion, or burning vegetation. These plumes of human-generated pollutants appear in bursts of thick and concentrated plumes comprised of small particles. Or, they are concentrated downwind of regions

obviously altered by human activities, such as deforested regions.

Combining global satellite images with global-scale models and globally distributed ground-based measurements gives scientists the best tools they have ever had to estimate the effects of aerosols on climate and weather patterns around the world.

NASA plans to further expand global aerosol research with the launch of satel-

lite-based light imaging radars (lidars) that send bursts of light to Earth and, like a radar signal, provide a measure of the altitude and vertical structure of aerosol plumes and clouds.

The Terra and Aqua satellites are part of NASA's Earth Science Enterprise, a long-term research effort to understand our home planet.

To learn more, visit the website at: earthobservatory.nasa.gov.

ICELANDIC

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- Plastic, cardboard and paper packaging are recycled.

- New employees are provided with training and are paired with veteran employees.

- Icelandic's Cambridge location was chosen for its close proximity to a port to save on transportation costs.

Knowledge of raw material costs, energy and water usage, waste steam volumes, and treatment and disposal costs is a critical starting point for weighing pollution prevention opportunities. During the training session, Plant Manager Jay Book demonstrated knowledge of these issues by providing trainees information on the plant's water use, wastewater volume, energy use, and landfill and office paper tonnage. Icelandic has also dedicated one individual to tracking yield rates for their facility and for each of their products. This information is

then communicated to employees.

Icelandic USA is to be commended for their commitment to responsible environmental management.

All Maryland businesses are eligible for free, confidential, non-regulatory pollution prevention opportunity assessments through an agreement with the Maryland Technology Extension Service. These are not compliance checks, but rather evaluations of waste reduction, cost saving opportunities at a facility. Call MDE Pollution Prevention Coordinator Laura Armstrong at 800-633-6101, ext. 4119 for further information on this valuable service or go to www.mde.state.md.us and use search words "Pollution Prevention Technical Assistance."

NOTES

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ity for disposal in order to prevent unlawful discharges of sewage from the facility to waters of the state. Within 60 days, Mr. Kaswala is required to submit to MDE for review and approval a Repair Plan prepared by a licensed professional engineer for repair of the motel's wastewater treatment plant. The Consent Order requires that the owner submit a construction permit and plan for installing a new wastewater treatment plant within one year in the event MDE does not approve the Repair Plan. The Consent Order requires the owner to cease operations of the Budget Motel in the event he does not submit a plan for a new treatment plant or fails to implement the Repair Plan. Mr. Kaswala has also agreed to pay a civil penalty of \$15,000 to the Maryland Clean Water Fund. **Status:** Case closed. (Reference #CD-03-0154).

JCR Enterprises, Inc. – Dorchester County – On October 31, 2002, MDE and JCR Enterprises, Inc. finalized an administrative Consent Agreement regarding improvements to the former Darling International, Inc. poultry rendering operation wastewater treatment plant located at 5420

Linkwood Road in Linkwood, Maryland. Under the terms of the Consent Agreement, JCR Enterprises has agreed to complete plant upgrades by September 30, 2003 designed to ensure compliance with nitrogen and phosphorus effluent limitations established in State Discharge Permit 99-DP-0024. The Consent Agreement establishes interim performance standards for nitrogen and phosphorus until plant upgrades have been completed and also establishes stipulated penalties for violations of the interim standards and the corrective action plan implementation schedule. **Status:** Case closed. (Reference #CO-03-0131).

Water and Sediment Pollution Penalties – Statewide

During the period November 15, 2002 to December 15, 2002, MDE collected an additional \$9,600 to the Clean Water Fund in settlement of alleged water pollution violations from eight establishments. MDE also collected an additional \$12,090 in administrative penalties to the Sediment Fund in settlement of alleged sediment and erosion control violations from four facilities.

For the Record

Park Hall Road, Boonsboro, MD 21713. (02DP3209) Groundwater municipal discharge permit

FEDEX FREIGHT EAST, INC. HAGERSTOWN CC - 14527 Industry Drive, Hagerstown, MD 21741. (97SW1686) General permit registration for stormwater associated with industrial activity

H.B. MELLOTT ESTATE, INC. - 10101 Mapleville Road, Hagerstown, MD 21750. (043-6-0402 M) Air permit to construct for one replacement crusher

ST. LAWRENCE CEMENT COMPANY - 1260 Security Road, Hagerstown, MD 21742. (21-7-0109M) Air permit to construct for modification to cement kiln

Wicomico

ALTERNATE LEARNING CENTER - 1130 Jersey Road, Salisbury, MD 21802. (045-4-0212) Air general permit to construct for one boiler < 10 MMBtu

BFI WASTE SYSTEMS OF NORTH AMERICA - DELMAR - 9140 Ocean Highway, Delmar, MD 21875. (2003-OPT-6183) Oil operations permit for above ground storage tank and transportation

BRADFORD ENTERPRISES, INC - Route 50, Ocean Gateway, Parsonsburg, MD 21849. (045-00191) Air quality permit to operate

CRYSTAL CLEANERS - 2420 North Salisbury Boulevard, Unit 2, Salisbury, MD 21801. (045-6-0164) Air general permit to construct for one dry cleaning machine

DISNEY SAND & GRAVEL, LLC - Salisbury, MD (77-SP-0113-A) Modification for a surface mine permit located on Rewastico Road

FRUITLAND WWTP - 200 Shady Lane, Fruitland, MD 21826. (S-02-22-4945-T) Sewage sludge transportation permit

SAM'S CLUB - 2704 North Salisbury Road, Salisbury, MD 21801. (045-9-0126) Air general permit to construct for three 20,000-gallon underground storage tanks

SILVERTON MARINE CORPORATION - 2015 Industrial Parkway, Salisbury, MD 21801. (045-6-0162 N) Air permit to construct for one fiberglass boat parts manufacturing plant

Worcester

UMES - COASTAL ECOLOGY & RESEARCH LABORATORY - 7500 block of Stephen Decatur Highway, Berlin, MD 21811. (03DP3422) Surface industrial discharge permit

WORCESTER COUNTY CAREER & TECH CENTER - 6268 Worcester Highway, Newark, MD 21841. (047-4-0120 & 0121) Air general permit to construct for two boilers < 10 MMBtu

Note: This list does not include approximately 14 registrations issued to operators of public swimming pools and spas under the department's new general discharge permit.

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