

EXECUTIVE SUMMARY

This is the first annual enforcement and compliance report by the Maryland Department of the Environment (MDE). It covers those activities that took place in state Fiscal Year 1997 (July 1996-June 1997). It includes information on 26 of the Department's enforcement and compliance programs in the Air, Waste and Water Administrations, and the Environmental Crimes Units under the Attorney General.

Enforcement is one of MDE's core functions, and in FY 1997 a total of more than \$6.7 million was spent on salaries alone for 148 enforcement personnel. During the fiscal year the Department developed new policies on environmental audits and publicizing enforcement actions.

Departmental Enforcement Coordination

In the Fall of 1996, the Department created an enforcement and compliance workgroup to promote a consistent enforcement reporting policy across the Department's different programs. That effort led to the Measures of Success system, a series of measures intended to show how programs were performing in their enforcement roles. A number of observations gained from those measurements enabled the Department to more closely coordinate the activities of each administration, encouraged the creation of a compliance assistance definition (so that all programs had a tool to measure compliance assistance), and emphasized the need to develop training for enforcement personnel. The difficulties associated with generating the necessary data has led to a push for a more modern management information system to better coordinate and track enforcement actions.

The Enforcement and Compliance Process

Understanding MDE's air, water and waste enforcement and compliance processes can be difficult. Each of the programs were established separately, with the same terms being used in legislation to mean different things for different programs. Many programs also have federal rules and regulations that they must implement. Also, the same company or type of facility may fall under the jurisdiction of several different environmental enforcement programs at the federal, state or local level.

However, most enforcement programs do share things in common. Most programs have an inspection and evaluation component. If an inspection reveals a violation, many programs have a discretionary component that allows a company to fix a minor problem without the risk of a fine, civil or criminal action. If an inspection reveals a significant violation, or if a minor problem indicates a pattern of non-compliance, more serious action is warranted. This action may take the form of fines, shut-downs, and in some cases, criminal sanctions. The use of a particular penalty is intended to reflect the severity of a violation.

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Senate Bill 324

Senate Bill 324, which was enacted in the 1997 legislative session, requires MDE to report statistical data on 15 programs and amounts of dollars collected/deposited into certain funds as a results of enforcement actions. MDE supported this legislation and full disclosure of our enforcement activity. This is the first step in ensuring accountability to the legislature, our stakeholders and the public. However, the Senate Bill information does not tell the entire story of enforcement activity at MDE. In accordance with the law, MDE has provided additional information which attempts to give a more complete picture of enforcement at the Department.

For the programs required to report under Senate Bill 324, the statistics tell us that there are a total number of 35,526 permits and licenses issued by or filed with the Department at any time and still in effect through Fiscal Year 1997; 5,312 permits and licenses were issued during the year; a total of \$964,215 was collected as a result of enforcement actions; and a total of 15,464 compliance assistance acts were rendered during the Fiscal Year for all programs. (*Number of Compliance Assistance Rendered*, in MDE's Measures of Success chart, is used to meet the requirements of Senate Bill 324 paragraph D, II, 5.) Compliance assistance is defined in *Compliance Assistance*, page 113 of this report. The total number of inspections, audits, spot checks at permitted facilities totals 25,364; a total of 232 injunctions, show cause, remedial, corrective action orders were issued; and 17 criminal cases charged by the Environmental Crimes Unit of the Attorney General's Office.

Measures of Success

MDE recognized the need to provide full disclosure of enforcement and compliance statistics and move toward developing more meaningful performance measures. To that end, MDE initiated Measures of Success which extract common statistical data for all of MDE's enforcement programs and provides a more comprehensive picture of inspection, enforcement, and compliance assistance activity than is required to be reported by law.

The Measures of Success report still collects traditional data such as the number of sites inspected, the number of inspections performed, and the number of significant violations that were recorded. However, it also reports on compliance rates, ongoing cases, as well as quantifies the number of compliance assistance acts that were performed. Compliance assistance is a non-enforcement act that takes place when an inspector advises a company on how to deal with problems. Although different from the traditional enforcement role, it is important in helping companies stay in compliance with federal and state laws and regulations.

Air and Radiation Management Administration (ARMA)

The Air and Radiation Management Administration is responsible for overseeing permitted and unpermitted sources of air pollution throughout the State. The air program's 42 inspectors conducted a combined total of 8,116 inspections at large and small stationary sources, asbestos projects, and radiation sources, took a total of 35 enforcement actions, had 945 compliance assistance actions for these sources, and deposited \$228,604 into the Clean Air Fund. Approximately 3,755 of these inspections occurred at stationary sources of air pollution, ranging in size from small gasoline stations and dry-cleaning operations to cement manufacturing plants and steel mills.

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A major focus is given to the 626 stationary sources which had the highest emissions or posed a significant potential risk to public health or the environment. In addition to the inspections conducted at stationary sources, 538 inspections were performed at 317 sites that were primarily the subject of nuisance complaints regarding odors and dust. A total of 9 enforcement actions were taken against stationary sources and at sites generating a nuisance and 101 compliance assistance actions occurred.

In protecting the public from exposure to asbestos, a material for which there is no known safe exposure level, 1,084 inspections were conducted for asbestos removal and encapsulation projects. There were 12 enforcement actions were taken against contractors (including 1 revoked license) who failed to adhere to applicable safety procedures when removing or encapsulating asbestos and 17 compliance assistance actions occurred.

To prevent the public from receiving excessive exposure to radiation, 2,739 inspections were conducted at 5,080 facilities using dental and veterinary x-ray machines, mammography machines, x-ray machines at medical, industrial and academic facilities, or of radioactive material licensees. Violations noted as a result of these inspections were technical and preventive in nature but are considered significant due to radiation's potential to impose instantaneous harm. For these significant violations, immediate corrective actions are required by MDE and undertaken by the machine owner in virtually all cases because of the potential action that could affect their license or machine certification. Enforcement actions were taken at 14 facilities who refused or failed to correct deficiencies in a timely manner. The U.S. Food and Drug Administration is responsible for enforcement for the mammography program. There were no violations which resulted in environmental/health impact because there were no reported cases of over exposure. Compliance assistance actions for all machine categories was 827.

Waste Management Administration (WAS)

The Waste Management Administration deals with environmental restoration and redevelopment, oil control, lead poisoning, solid waste, scrap tires, sewage sludge and hazardous materials. A total of 44 inspectors are responsible for determining compliance within these various programs and they performed 25,574 inspections (10,492 were lead inspections performed by accredited private inspectors), had 11,663 compliance assistance actions for these sites, and took a total of 645 enforcement actions.

The environmental restoration and redevelopment program identifies sites that are actually or potentially contaminated by controlled hazardous substances and prioritizes activities on those sites to be protect public health and the environment. These sites are commonly referred to as state "superfund" sites. There were a total of 454 sites on the State Master List, 13 of which are on the Disposal Site Registry List and 3 intended preliminary assessments. This program collected \$110,665 from responsible parties as a result of cost recovery. The hazardous waste program controls the disposition of hazardous waste

from generation to ultimate disposal. The focus of the program is on those hazardous waste treatment, storage and disposal facilities which pose the greatest threat to public health and the environment. This

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program conducted 687 inspections, took 35 enforcement actions, collected \$33,827 as a result of enforcement actions, and rendered 14 compliance assistance actions.

The lead program has oversight of lead poisoning prevention activities to reduce the incidence of childhood lead poisoning. This includes accreditation and oversight of lead paint service contractors. Property registration is also required for certain rental properties and over 50,000 properties were registered with MDE at the close of FY 1997. Inspections of 10,492 affected properties were performed by accredited contractors resulting in 41 enforcement actions by MDE. Compliance assistance acts in this program do not meet MDE's definition of compliance assistance, therefore zero is reported for this program. However, assistance and guidance is given to property owners (rental and non-rental) to help them comply with environmental laws, secure accredited contractors, and eliminate or lower the risk of lead paint poisoning.

The oil program is responsible for overseeing oil operations for above ground storage tanks (which includes storage, delivery or transfer of petroleum products), oil contaminated soil operations, oil pollution remediation activities (gasoline stations with old tanks, old petroleum distributors, etc.), and activities associated with storage of regulated substance in underground tanks. A total of 12,158 inspections were conducted, 495 enforcement actions taken, \$101,666 administrative and civil penalties obtained, and their compliance assistance activities reached 11,665.

The solid waste program is responsible for oversight of natural wood waste recycling, refuse disposal systems (landfill, transfer stations, processing facilities and solid waste incinerators and also groundwater discharge permits for existing rubble landfills that do not have a liner or leachate collection), scrap tires, and sewage sludge utilization. The program performed a total of 2,061 inspections, took a total of 74 enforcement actions, and collected \$28,150 in penalties.

Water Management Administration

The Water Management Administration is responsible for the National Pollutant Discharge Elimination System (NPDES) program for surface water, and the State's discharge program for groundwater and pretreatment. The program also oversees public drinking water, mining, oil and gas exploration and production, tidal and non-tidal wetlands, floodplain, water appropriations, waterway and floodplain construction, sediment control, and stormwater management. The Water Management Administration's 62 inspectors conducted a total of 17,595 inspections, took 995 enforcement actions and rendered 2,835 compliance assistance actions.

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The discharge program consists of groundwater, surface water and pretreatment. Under the pretreatment program there are only 2 active permits and over 29 inspections were made with no enforcement actions necessary. The groundwater discharge program (for municipal and industrial) made 107 inspections and took 2 enforcement actions. The surface water discharge program (municipal and industrial) combines the requirements of the state discharge permit program and the National Pollutant Discharge Elimination System (NPDES) into one permit. A total of 2,682 inspections were made at these facilities, 57 enforcement actions taken, and compliance assistance reached 224. The NPDES and state discharge permit programs deposited a total of \$461,309 into the Clean Water Fund.

The erosion and sediment control program for construction activity covers any construction activity that disturbs 5,000 square feet or more of land or results in 100 cubic yards or more of earth movement. A total of 5,385 inspections were made for the activities, 24 enforcement actions were taken, and 1,764 compliance assistance actions rendered. Stormwater management reduces stream channel erosion, pollution, siltation, and local flooding caused by land use changes associated with urbanization. The compliance program made 1,270 inspections and took 2 enforcement actions.

Coal mining and noncoal mining programs oversee deep coal mining, prospecting, preparation plants, loading facilities, and refuse and land reclamation operations. The compliance program made 1,314 inspections, took 13 enforcement actions, and had a total of 27 compliance assistance actions. The compliance program also made 47 inspections for the oil and gas exploration and production program where no enforcement actions were necessary.

The public drinking water program ensures public drinking water systems provide adequate quality and quantity of water to their users. The compliance program made 541 inspections, took 840 enforcement actions and had 350 compliance assistance actions. Water and sewerage construction permits ensure infrastructure projects throughout the state are designed on sound engineering principles. This program made 520 inspections and no enforcement actions were necessary. Construction projects risk losing state, local or federal funds if design criteria are not met.

Tidal wetland licenses and permits are required to minimize impact to aquatic resources and wetlands from construction of bulkheads, dredging, filling and related activities. There were 1,189 inspections made at active projects, 7 enforcement actions taken and 40 compliance assistance actions. The nontidal wetlands, waterway, and floodplain permits program oversees the change in course, current or cross section of non-tidal streams or other bodies of water, including the 100-year floodplain. The compliance program made 4,430 inspections, took 51 enforcement actions and rendered 240 compliance assistance actions for the non-tidal wetlands and waterways program. No money was deposited into the Nontidal Wetland Compensation Fund. Also, the dam safety division issues waterway construction permits for new dams and ponds, permits for alterations to existing impoundment structures and ensures that dams are built and operated properly to protect public safety. The compliance program made 217 inspections

and took 1 enforcement action. No compliance assistance was rendered officially under the MDE

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definition of *compliance assistance*, however, guidance was provided to engineers, permittees, and contractors for dam safety issues.

Environmental Crimes

The Environmental Crimes Unit (ECU) is a criminal investigation and prosecution team which functions independently of the Maryland Department of the Environment (MDE) under the direction of the Criminal Investigations Division of the Attorney General's Office. The Unit combines the prosecutorial authority of the Attorney General's Office, with the investigative and law enforcement capabilities of the Maryland State Police, and the regulatory expertise of MDE. Typically, criminal actions are resorted to as a last recourse for the worst and most recalcitrant offenders. The Environmental Crimes Unit reported that it received a total of 76 criminal referrals from MDE, accounting for more than half of the requests for investigation. The Unit filed a total of 40 counts in 17 different cases, had 11 counts concluded in court, with \$16,000 in fines, restitution and cleanup costs imposed, 12 months of jail time imposed, and 100 hours of community service ordered. Criminal actions charged in one fiscal year may not reach ultimate disposition in court until a succeeding fiscal year.

Summary and Conclusion

Enforcement is a very important and necessary tool for bringing industry into compliance with environmental regulation, but enforcement actions are not goals. Our goal is to ensure improvements in environmental quality and to protect public health and the environment. Compliance assistance, in addition to enforcement, also helps us achieve these goals.

In FY 1997, MDE inspectors in the Air, Water and Waste Administrations conducted 51,285 inspections. MDE took 1,675 enforcement actions during the fiscal year, but also provided over 15,464 compliance assistance actions. Compliance assistance is very important tool for bringing industry into compliance with environmental laws and it was important that we measure this effort.

This is the first annual report of MDE's enforcement and compliance statistics. The report adds context to what can be a very confusing process. Many good lessons were learned from preparing this year's report. One lesson is that MDE needs to improve the overall departmental process in which our programs report statistical data internally and periodically throughout the year. This further emphasizes the need to develop more advanced technology and database systems to better manage our data.

Over the coming year, we will look at what the report tells us and whether improvement is needed in certain areas, such as: compliance assistance and its documentation for some programs; we may need to look at potential backlogs for unresolved cases; and evaluate where enforcement actions may be low, understand why that is, and make improvements if necessary. There are also several areas that we are aware of that need improvement such as administrative penalty actions in some programs.

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What we were aware of and what this the report confirms, is that there are not enough resources to cover every site, facility and license throughout the state. Therefore, MDE will continue to target its limited resources to those areas of pollution that are the largest threat to the environment and public health and to those sites, facilities and persons who are repeat offenders and egregious violators of Maryland's air, water and waste laws. We will also continue to focus our compliance assistance efforts toward those businesses and persons who need help understanding and complying with new state and federal laws and regulations, avoiding potential violations of the law, and assisting with best management practices to reduce or eliminate pollution in order to protect public health and the environment.

In future years, these data will allow for trend analysis. It will also serve as a valuable management tool, indicating where additional resources may be needed to protect human health and the environment. Over the next year, MDE will be evaluating this process and making improvements to it so that we can provide the best data and most meaningful measures and outcomes possible.

THE ENFORCEMENT AND COMPLIANCE WORKGROUP

DURING THE FALL of 1996, MDE created the Enforcement and Compliance Workgroup to bring the air, water, and waste programs together. The group was charged with evaluating enforcement and compliance performance, increasing communication between the Department and the public, and developing an enforcement philosophy that emphasized consistency across the Department. Recognizing the importance of this, Secretary Nishida appointed Deputy Secretary Arthur Ray to lead the effort. The workgroup enables MDE to better coordinate the enforcement and compliance activities and improve reporting to the public. Over the last year the workgroup has:

- Established new performance measures that each program will track and holds the Department accountable to the public;
- Defined the “enforcement process” that MDE uses in enforcement programs;
- Established a common departmental definition of compliance assistance and how it is measured; and
- Developed a policy that emphasizes keeping the public informed of significant enforcement activities taken by MDE.

The workgroup is focusing its efforts now to make these reforms successful. In the year ahead, MDE will integrate enforcement and compliance indicators into the proposed Performance Partnership Agreement (PPA) with the U. S. Environmental Protection Agency -- linking the appropriate enforcement and compliance benchmarks to our environmental and public health goals. The Enforcement and Compliance Workgroup is working with the MDE Information Technology Team to develop a common database that will link enforcement activities across administrations and will ultimately connect enforcement data with permitting information. In addition, the workgroup has been assessing the needs of the enforcement workforce. They developed and issued an inspector survey in July and are now using the results to target training needs. More on these initiatives are found in the *Future of Enforcement and Compliance* section of this report.

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The workgroup collectively compiled statistics and information for this annual report. Below is list of current workgroup members:

Arthur Ray, Office of the Secretary, Chair
Quentin Banks, Office of Communications
Tom Boone, Water Management Administration
Angelo Bianca, Air and Radiation Management Administration
Jack Bowen, Water Management Administration
Butch Dye, Waste Management Administration
Roland Fletcher, Air and Radiation Management Administration
Bernie Penner, Office of the Attorney General, Environmental Crimes Unit
Dave Pushkar, Water Management Administration
Marce Scarborough, Governor's Policy Fellow
Leslie Sipes, Environmental Permits Service Center
Denise Ferguson Southard, Office of the Attorney General
Tom Tapley, Technical and Regulatory Services Administration

Report Manager: Cathy Wagenfer, Office of the Secretary

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MDE'S ENFORCEMENT AND COMPLIANCE ROLE

MDE'S MISSION

MDE'S MISSION IS TO PROTECT and restore the quality of Maryland's air, land, and water resources, while fostering economic development, healthy and safe communities, and quality environmental education for the benefit of the environment, public health, and future generations. MDE's vision is to ensure a clean environment and excellent quality of life for all Marylanders.

ENFORCEMENT WORKFORCE

	FY 1997 Actual*	Number of FTE Positions**	Number of FTE Vacancies
Water Management Adm.	\$3,017,411	62	2
Waste Management Adm.	\$1,881,154	44	4
Air & Radiation Adm.	\$1,838,000	42	4
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	\$6,736,565	148	10

* Appropriation includes wages plus 28% fringe for permanent employees and 8% fringe for contractual employees. The numbers do not include any operating expenses such as vehicles, travel, gasoline, supplies, or other related employment expenses.

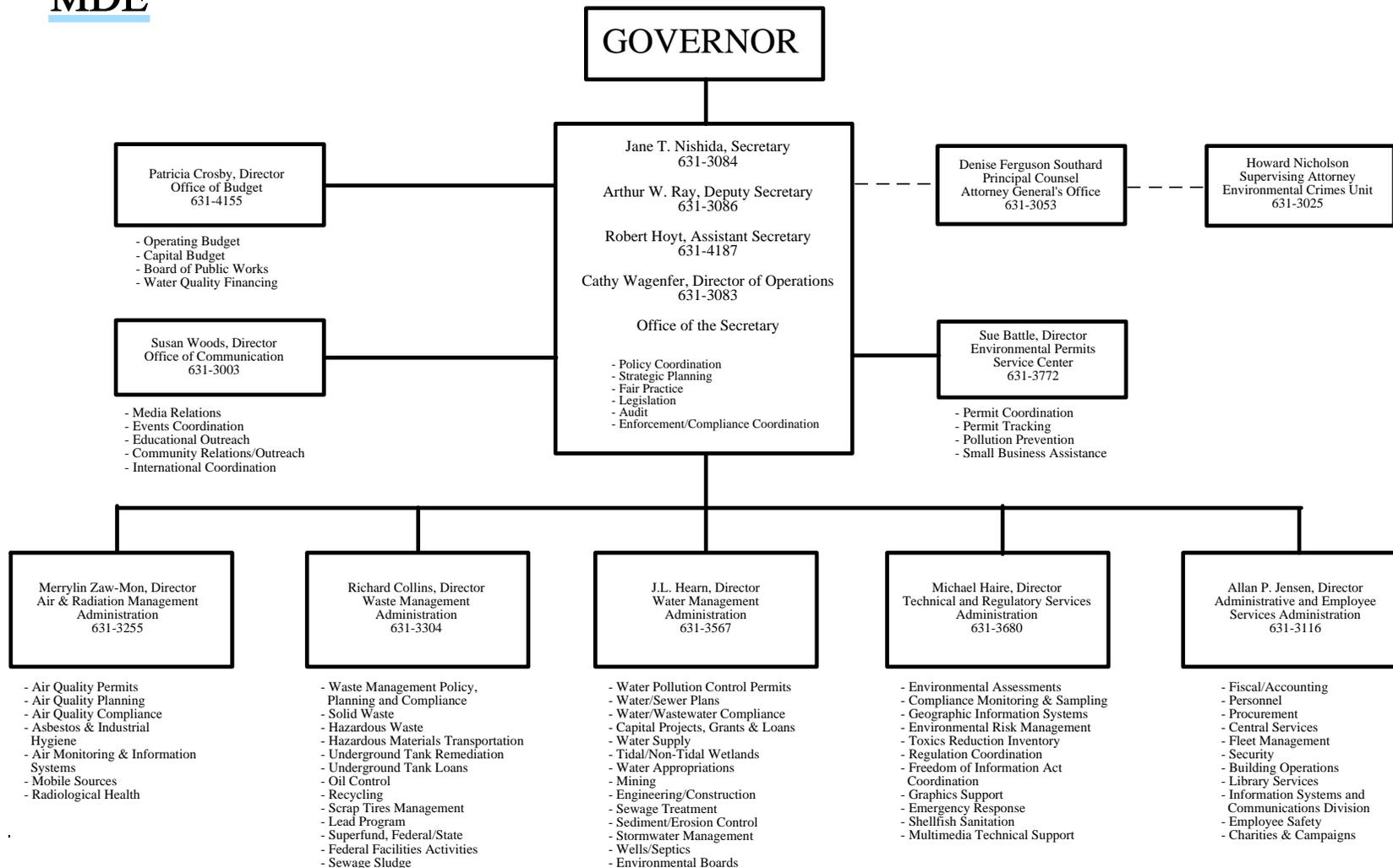
**Inspectors represents the number of enforcement field inspectors budgeted for the fiscal year. These numbers do not include any administrative, management, or clerical staff associated with enforcement and compliance programs.

FTE = Full Time Equivalent

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MDE'S ENFORCEMENT POLICIES

PENALTY POLICY

WHEN MDE ASSESSES penalties in administrative cases, it must consider certain factors specified by statute. Those factors are used to guide the Department's discretion in determining the appropriate amount of a penalty.

The Department will consider each of the specific factors on a case by case basis. While all factors set forth in the statute will be considered, it is not necessary for all of the factors to be applicable before a maximum penalty may be assessed. A single factor (i.e. harm to the environment, willfulness, etc.) may warrant the imposition of the maximum penalty. Furthermore, all factors, even if applicable in a given case, are not necessarily of equal weight in the Department's determination of a reasonable penalty.

Additionally, the Department's policy is not to reward, by assessing no penalty or a lesser penalty, those who can afford to remediate the harm they caused. Penalty credit is considered for voluntary actions that exceed the legal requirements and result in environmental benefit beyond that needed to remediate the environmental harm.

It is the Department's policy to assess fair and equitable penalties in keeping with the statute and commensurate with the nature of the violations.

COMMITMENT TO PUBLICIZING ENFORCEMENT ACTIONS

MARYLAND CITIZENS ENTRUST MDE with the responsibility of achieving compliance with the environmental laws of the State. With that in mind, the Department has an obligation to inform the public about the State's progress in achieving compliance with applicable federal and state requirements.

Commitment to Public Information

The Department will keep the public informed of activities that contribute to our mission of protecting the environment and public health. In addition to enforcement and compliance actions, the Department will publicize projects and actions that yield beneficial environmental results through cooperative partnerships and alliances with businesses, community groups, environmental groups, and others who support environmental protection.

Individual Enforcement and Compliance Actions

The Department has established a process for the review and dissemination to news media sources of significant enforcement and compliance actions. The following factors are considered:

- *Significant Threats to Public Health or Environment* -- An action taken by the Department in response to acute and/or chronic conditions which cause significant damage to the environment, or which pose significant risks to public health;
- *Significant Public Interest* -- An action taken by the Department which, for any number of reasons, creates a high level of public interest; and,
- *Significant Penalty Impacts* -- An action taken by the Department which has significant economic impacts related to fine amounts, corrective action expenditures or other costs related to the violation(s) and the resulting enforcement action.

The Department responds to requests for information on any specific case as outlined in the State Public Information Act consistent with protections that apply to ongoing enforcement actions and proprietary business information.

In addition to routine press releases (available on MDE's web site at www.mde.state.md.us), the Department incorporates into its monthly newspaper, the *MDEnvironment*, a listing of enforcement actions and fines assessed. This is an effective way to provide enforcement information to a wide audience in a timely manner.

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ENVIRONMENTAL AUDIT POLICY

THE MARYLAND DEPARTMENT OF THE ENVIRONMENT recognizes the benefit from companies that regularly evaluate their internal work processes for compliance with state environmental requirements. Equally as important as identifying violations is the reporting of such violations to MDE for proper and complete remediation and abatement. The Department encourages self-auditing as an effective environmental management technique. Companies that disclose environmental hazards to the Department, under specified requirements, may receive immunity from administrative penalties, pursuant to the Department's enforcement discretion.

This is not intended nor should it be interpreted to be a regulation as defined in Section 10-101, State Government Article. It sets forth criteria and guidelines to be used by the Department staff in settlement of enforcement cases, and does not confer any legal rights.

Statement of Guidance:

- A. The Department will not assess a civil penalty for violations of environmental requirements which are voluntarily disclosed following an environmental audit if:
 - 1. disclosure is made within 10 days after the information or knowledge concerning the violation is discovered;
 - 2. action is promptly initiated to correct or eliminate the violation and all public or environmental harm caused by violation. If the violation cannot be fully corrected within 60 days, a compliance plan must be submitted to the Department within 60 days for review. Compliance with the plan must be maintained as approved by the Department;
 - 3. the applicant agrees in writing to take steps to prevent recurrence of the violation; and
 - 4. the regulated entity fully cooperates with the Department regarding investigation of the disclosed condition.

- B. Disclosure is considered voluntary if it is not required to be made in accordance with an established environmental requirement.

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- C. The relief granted in Section A is not applicable if any of the following exist:
1. The disclosure was not voluntary as described in Section B;
 2. the violation was discovered by the Department or a third party prior to disclosure by the regulated entity to the Department or the disclosure was made after commencement of a federal, state or local agency inspection, investigation or request for information;
 3. the violation was committed wilfully, wantonly, intentionally, knowingly, or with gross negligence by the regulated entity making the disclosure;
 4. action is not promptly initiated and diligently pursued to correct or eliminate the violation;
 5. significant environmental harm or a significant public health effect was caused by the violation or is imminent due to the violation;
 6. the specific or a closely related violation has occurred within the past three years at the same facility or the violation is part of a pattern of recurrent violations. For purposes of this section, violation includes any violations of a federal, state or local environmental law identified in a judicial or administrative order, consent agreement or order, complaint, or notice of violation, conviction or plea agreement; or
 7. the disclosure is made for a fraudulent purpose.
- D. The relief provided under this guidance shall not be applicable when the Department receives formal notification from the delegating federal agency of that agency's intention to propose rescission of the Department's authority over the federal environmental program.

MDE'S ENFORCEMENT PROCESS AND DEFINITIONS

ENFORCEMENT AND COMPLIANCE PROCESS

DESCRIBING ENFORCEMENT AND COMPLIANCE activities can be difficult, and measuring those activities is a challenge. Over the last 25 years a number of separate environmental programs were developed, some under federal law and still others under state law. Each of these programs has its own terminology and rules governing the type of sanctions and when they can be used. Also, many programs have some overlap with other programs. In 1997 MDE had 26 distinct environmental enforcement programs.

It is easy to see how the development of common policies across programs can be difficult. The level of flexibility that a program has varies greatly and is usually written into federal or state law. What follows is a general explanation of how enforcement works at MDE and what is expected at each level. Keep in mind that some programs may vary from this model. A diagram of the enforcement process is included on page 19. It may be helpful to refer to the diagram when reading this document.

INSPECTIONS: The first step in determining a course of action is to conduct a site inspection. The purpose of an inspection is to determine whether a facility is in compliance with all applicable permits, regulations and statutes. During an inspection, an inspector may conduct a visual observation of a facility's operation, reviews records or take samples for analysis, or any combination thereof. The results of these activities constitutes the Department's findings. At the conclusion of an inspection, a written record of these findings is prepared, either at the time of the inspection or at a later date. A copy of the written record is either presented to the facility before the inspector leaves or is mailed.

POST-INSPECTION EVALUATION: At some point, either while the inspector is on the site or at a later date, a review of the Department's findings is conducted to determine whether the facility is in compliance with applicable requirements. The need to review findings also can arise through non-inspection activities, such as the periodic submittal of self-monitoring reports by permittees. If the review determines that the facility is in compliance, no further action is warranted. If the post-inspection review reveals that a violation of an applicable requirement has occurred, a determination is made as to the seriousness of the violation, for different courses of action are recommended for significant violations versus those that are determined to 'be not significant. In most situations where a violation has occurred, a report of the violation is served on the facility. This report can either be the written record of the inspection itself or a separate document.

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MINOR VIOLATIONS: Sometimes a violation is discovered that is technical* in nature and does not have the potential to affect human or environmental health. These may include:

- Minor excursions from prescribed numerical standards.
- Minor record keeping violations.
- First offenses that present no imminent harm or potential harm to public health or the environment.
- Minor violations that can be corrected immediately or in short order.

*Technical violations are not always minor. For example, technical violations involving radiation or asbestos are most often counted as “*significant*”. Also, repeated minor violations or recalcitrant behavior can be elevated to the significant violation status and appropriate enforcement actions are taken.

If a violation is minor and a facility is cooperative, the inspector can request that the facility correct the violation within a specified time frame. A follow-up inspection is then conducted or other measure taken until adequate assurance exists to verify that the correction has occurred. The inspector may request that a violation be corrected prior to the leaving the facility, in which case no follow-up is needed. For certain technical matters, MDE provides assistance to help facilities achieve compliance with federal and state laws. If the facility needs assistance to correct a minor violation, the inspector can either provide the assistance directly, or arrange to have assistance provided at a later date. (Minor violations, such as Report of Observations, some Site Complaints, etc. are not counted reported in the statistics in this report.)

Minor violations may become significant if they are a part of a reoccurring pattern. Such a violation could become serious if it remains uncorrected or is only partially corrected at the time of a follow-up inspection. Whether this occurs is left to the judgment of the inspector (and/or supervisor) considering factors such as: past compliance history, willfulness of the violation, the degree of harm or potential harm, the ability of the facility to make timely corrections and any other appropriate factor.

SIGNIFICANT VIOLATIONS: Certain violations uncovered during an inspection are considered significant on their face. Examples of significant violations are:

- Major excursions from prescribed standards
- Offenses that pose a direct threat to public health or the environment
- An offense that is part of a pattern of chronic, noncompliant behavior
- An offense that requires a significant amount of time or capital to correct
- A violation deemed significant under federal criteria

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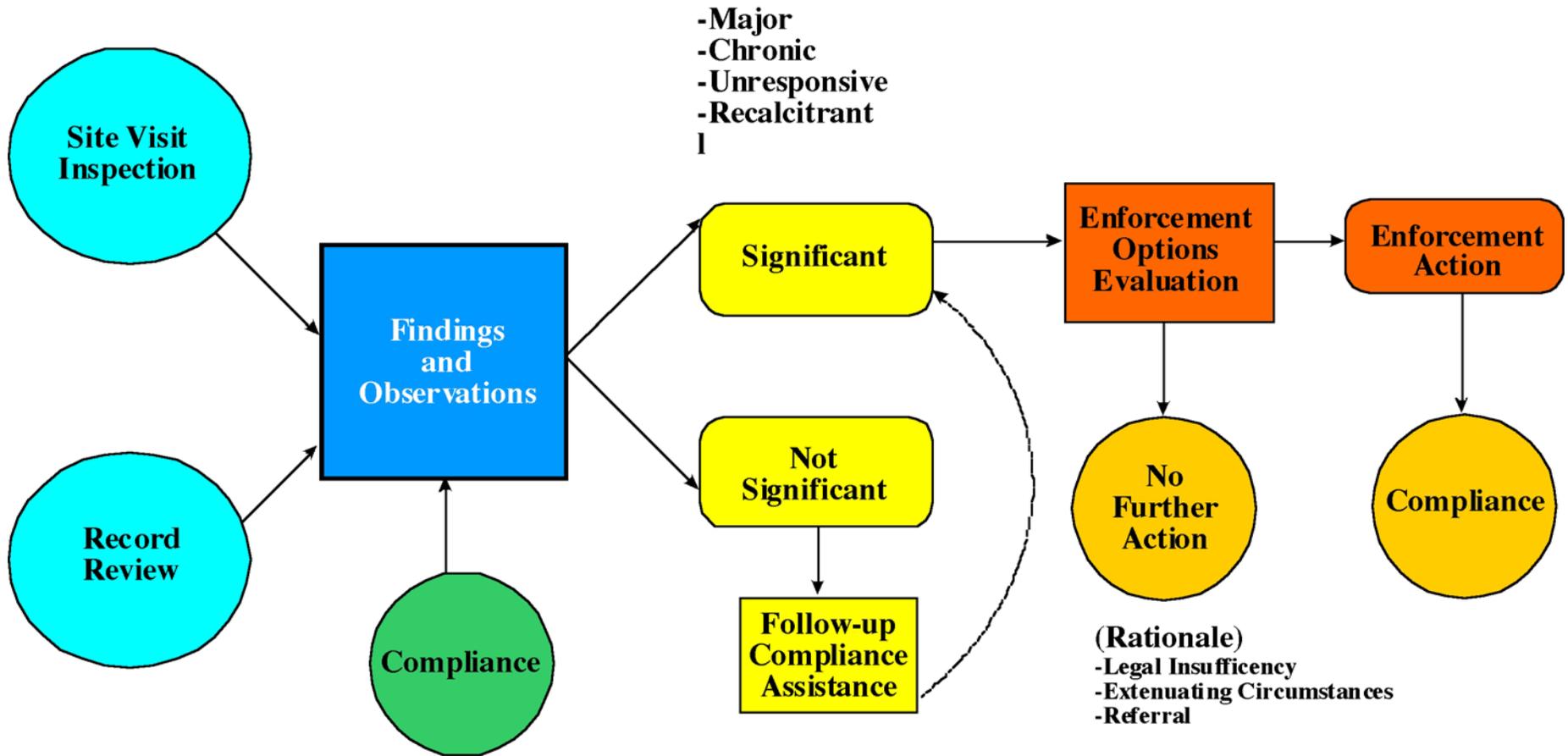
EVALUATION OF ENFORCEMENT OPTIONS: Once a violation has been deemed significant, it generally follows that enforcement action is warranted. At this point an evaluation of the enforcement options available is conducted to determine the most appropriate option given the particulars of the situation being evaluated. Generally the options available are:

- Issue a directive
- Issue a show-cause order
- Issue a corrective order
- Enter into a consent order
- Seek judicial relief
- Criminal referral
- Assess a penalty (can be done in conjunction with the options above)
- No action

Some programs have appropriate sanctions spelled out in law. Which of these options is pursued depends on a variety of factors and circumstances, including: whether certain actions are prescribed by state/federal delegation or enforcement agreements, the severity of the violation, the degree of harm or potential harm to public health or the environment, the willingness of the facility to correct the violation, the past compliance history of the facility and the willfulness of the act. If a penalty is thought to be warranted, there are factors, incorporated in statute, that must be considered as part of the decision making process.

There are occasions where certain circumstances cause the outcome of the enforcement option review to be that no further action by the Department is warranted. It may be that upon a more detailed review of the available evidence, the Department's case is found to be too weak or precluded from being moved forward by statute, which causes us to either no longer pursue the case or put the case on hold while further evidence is gathered. It is also possible that a case is better pursued by a federal oversight agency such as the EPA.

ENFORCEMENT PROCESS



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MEASURES OF SUCCESS OVERVIEW AND DEFINITIONS

THE TASK OF EVALUATING the performance of the enforcement and compliance programs is difficult but not impossible. Three of MDE's administrations handle the bulk of the enforcement actions taken by the Department. For that reason we have broken down our evaluation of MDE's programs by media:

Air: This includes programs that deal with air pollution and radiation.

Waste: This includes oil control, solid and hazardous waste as well as the sewage sludge, scrap tire, lead poisoning, natural wood waste and superfund remediation programs.

Water: This includes the drinking water, tidal and non-tidal wetlands, the NPDES program, coal and mineral mining, oil and gas exploration and production, water appropriation, waterway and floodplain construction, dam safety, stormwater management, sediment and erosion control programs.

The first step in assessing performance was the development of measures. This proved to be more difficult than anticipated because each program used different statistics to measure their performance. In an effort to gauge performance, and take a step forward to achieve consistency, the Department developed the Measures of Success program. It was important to develop the Measures of Success program for many reasons. First, Senate Bill 324 requests information about inspections for permitted facilities only. MDE performs more than 14,000 inspections at unpermitted facilities. This is important to note in reading the Senate Bill charts compared to MDE's Measures, as the number of inspections do not always equal each other. Second, the Measures of Success numbers attempt to separate and quantify violations by those that are technical and preventive, and those that have real exposure/impact or a substantial potential for exposure/impact to the environment or human health. Third, we are able to show the vast amount of significant violations that are resolved during the year because of compliance assistance efforts or because companies return to compliance due to the threat of enforcement action. We are also able to show the cases that are ongoing which sometimes means that enforcement actions are pending. Finally, MDE's Measures capture, for the first time, a quantification of "compliance assistance" which is documented by the inspector.

The Measures of Success Program includes any enforcement program where MDE is responsible for conducting the inspections and any subsequent enforcement action (except where noted). These programs are divided into two groups -- *Facilities with Permitted Discharges/Emissions* and *Site/Facility Maintenance Program*.

Facilities with Permitted Discharges/Emissions)

Facilities with Permitted Discharges/Emissions includes those programs that allow firms to release a certain level of discharge into the environment. Such facilities must have a license or permit from MDE. This chart reports on the total “number of significant violations,” because if a violation is considered significant in this category there was exposure/impact or a significant potential for impact (above the legal limits) to the public or environment.

Site/Facility Maintenance Program

The Site/Facility Maintenance Program includes facilities where the release of substances into the environment would be considered illegal. Not all facilities in these programs are required to obtain a permit or to register with MDE. This chart distinguishes between “Violations Which Result in Environmental/Health Impact” and “Violations Which Were Technical/Preventive in Nature.” Both Environmental/Health and Technical/Preventive violations are considered significant in these charts. Certainly harmful illegal releases into the environment are significant, but technical violations such as inaccurate records, poor facility maintenance, or failure to post notices are also significant.

MDE makes the distinction to help us compare our technical program performance measures with our environmental and public health indicators. This comparison will help us gauge which measures and indicators are most productive in achieving our overall environmental goals of clean air and clean water.

As MDE collects more data on the performance of each of the programs, the Department will be in a better position to adjust resources as different needs arise. These measures also will be integrated into the Performance Partnership Agreement (PPA) that MDE will sign with the EPA. Finally, these measures will give the public and elected officials greater insight into the performance of MDE, increasing accountability and reaffirming the level of trust.

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Definitions of Terms for Measures of Success Charts

Facilities with Permitted Discharges/Emissions

Number of Permitted Sites/Facilities -- This is the **total universe of facilities** that have a permit for a given program.

Number of Inspections -- This is the total number of inspections performed in each program. It can include repeat inspections and inspection of places that are operating illegally without a permit.

Number of Sites/Facilities Inspected -- This column yields the number of individual sites that were inspected. It does not include repeat inspections. **(This number is used to calculate compliance rates*)**

Significant Violation -- This term describes the exposure or substantial likelihood of exposure that results in harm to the environment or human health. It also describes actions that exceed specific limits, repeated violations, or the chronic failure to comply with environmental regulations.

Percent of Sites/Facilities in Significant Compliance -- This number represents the percent of inspected facilities that did not receive a significant violation. If a facility is found to have a significant violation, it is excluded from this category for the remainder of the period (either fiscal or calendar year) even if they correct their violation.

Percent of Sites/Facilities with Significant Violations -- This category represents the percent of facilities that have a significant violation when they are inspected. Facilities with a significant violation remain in this column for the entire period, even if they correct their violation.

Number of Significant Violations -- This column includes multiple violations at the same site/facility. For example, if a firm is found to have four significant violations at the same site the number four would be counted in the column.

Number of Inspected Sites/Facilities with Significant Violations -- This category represents the total number of facilities that were inspected that had a significant violation or multiple violations. For example, if a site/facility had six violations at the same site, the number one is counted in this column. **(This number is used to calculate compliance rates.*)**

Number of Significant Violations Resolved -- When a significant violation is resolved during the time period, it is counted in this column.

*** “Number of Inspected Sites/Facilities with Significant Violations” divided by the “Number of Sites/Facilities Inspected” equals “Percentage of Sites/Facilities with Significant Violations.”**

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Number of Significant Violations (On-Going) -- Significant violations that were not resolved during the time period should be counted in this column. An action should be considered unresolved if it is under review, under appeal or still being negotiated at the end of the fiscal year.

Number of Enforcement Actions Taken -- There are **three** types of actions that are considered enforcement actions. All of them are formal actions, written, and have the potential for penalty, injunctive relief or punishment. It is important to note that one incident may result in more than one enforcement action, especially if initial requests to correct a problem go unheeded.

- Written Notice of Violation (with or without a penalty action)
- Judicial or Admin. Orders/Penalty Actions/Cost Recovery
- Criminal Enforcement (counted when a charge is filed, with or without a penalty action)

Number of Compliance Assistance Rendered --An MDE employee renders an identifiable act of compliance assistance when he or she documents a specific past or current violation which the regulated entity corrects in the absence of a formal enforcement action. It also applies when an employee documents a specific action or actions which the regulated entity has the option of undertaking to prevent the likelihood of potential future violations, voluntarily in such manner and within such time period as deemed acceptable by MDE. In either of these cases, the MDE employee must document the manner in which the regulated entity voluntarily achieved compliance.

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Definitions of Terms for Measures of Success Charts

Site/Facility Maintenance Programs

Number of Sites/Facilities -- This is the number of individual sites that fall under a program. Facilities do not necessarily have to be permitted.

Number of Inspections -- This is the total number of inspections performed in each program. It can include repeat inspections and inspection of places that are operating illegally without a permit.

Number of Sites/Facilities Inspected -- This column yields the number of individual sites that were inspected. It does not include repeat inspections. **(This number is used to calculate compliance rates.)***

Percent of Inspected Sites/Facilities in Compliance -- This number represents the percent of facilities that did not receive a significant violation when they were inspected. If a facility is found to have a significant violation, it is excluded from in this category even if they correct their -violation.

Percent of Inspected Sites/Facilities with Significant Violations -- This category represents the percent of facilities that have a significant violation when they are inspected. Facilities with a significant violation remain in this column, even if they correct their violation.

Number of Inspected Sites/Facilities with Significant Violations -- This category represents the total number of sites/facilities that were inspected that had a significant violation or multiple violations. **(This number is used to calculate compliance rates.)***

Number of Significant Violations Noted Which Result in Environmental/Health Impact -- A violation of state or federal law that has a real impact on the environment and/or real impact on human health.

Number of Significant Violations Noted that are Technical/Preventive in Nature -- Significant acts which are technical or preventive in nature but have a potential risk of damage to the environment or potential risk to human health. Examples of technical/preventive violations include poor recordkeeping, failure to notify MDE of a project, not posting proper notices, etc.

Number of Significant Violations Resolved -- When a significant violation is resolved during the time period, it is counted in this column.

*** “Number of Inspected Sites/Facilities with Significant Violations” divided by the “Number of Sites/Facilities Inspected” equals “Percentage of Sites/Facilities with Significant Violations.”**

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Number of Significant Violations (On-Going) -- Significant violations that were not resolved during the time period should be counted in this column. An action should be considered unresolved if it is under review, under appeal or still being negotiated at the end of the fiscal year.

Number of Enforcement Actions Taken -- There are **three** types of actions that are considered enforcement actions. All of them are formal actions, written, and have the potential for penalty, injunctive relief or punishment. It is important to note that one incident may result in more than one enforcement action, especially if initial requests to correct a problem go unheeded.

- Written Notice of Violation (with or without a penalty action)
- Judicial or Admin. Orders/Penalty Actions/Cost Recovery
- Criminal Enforcement (counted when a charge is filed, with or without a penalty action)

Number of Compliance Assistance Rendered --An MDE employee renders an identifiable act of compliance assistance when he or she documents a specific past or current violation which the regulated entity corrects in the absence of a formal enforcement action. It also applies when an MDE employee documents a specific action or actions which the regulated entity has the option of undertaking to prevent the likelihood of potential future violations, voluntarily in such manner and within such time period as deemed acceptable by MDE. In either of these cases, the MDE employee must document the manner in which the regulated entity voluntarily achieved compliance.

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DEFINITIONS OF TERMS FOR SENATE BILL 324

Senate Bill 324, which was enacted in the 1997 legislative session, requires MDE to report statistical data on 13 programs. The purpose of this law was to provide certain enforcement data to the General Assembly and the public. The Senate bill is provided as reference on pages 28-32. MDE provides the following as a clarification to some of the information presented in the Senate Bill 324 charts.

Fiscal Year -- Period of July 1, 1996 through June 30, 1997.

Total Number of Permits/Licenses Issued at Any Given Time and in Effect at the Close of FY 1997 -- Includes the total number of permits/licenses that were in effect (active) as of the close of FY 1997. Does not include projects or authorizations that were completed and closed out during FY 1997 or prior. This number is not the total universe of sites and facilities because some sites and facilities may be unpermitted or registered, therefore, this number will not always equal the total number of sites and facilities in Measures of Success.

Permits/Licenses Issued in FY 1997 -- This may include permits for sites and facilities, renewals, as well as licenses and registrations to individuals, as provided under the appropriate Environment Article Title.

Inspections, Audits, Spot Checks at Permitted Facilities -- Includes inspections, et al, at **permitted** sites or facilities, and does not include inspections, et al, at **unpermitted or registered** sites or facilities.

Injunctions Obtained -- Includes total number of injunctions obtained under the appropriate Title and Subtitle for all sites or facilities (permitted, registered, licensed, and unpermitted).

Show Cause, Remedial and Corrective Action Orders Issued -- Includes total number of show cause, remedial and corrective action orders issued under the appropriate Title and Subtitle for all sites or facilities (permitted, registered, licensed, and unpermitted).

Stop Work Order -- Includes total number of stop work orders obtained under the appropriate Title and Subtitle for all sites or facilities (permitted, registered, licensed, unpermitted).

Administrative or Civil Penalties Obtained -- Includes total dollars obtained for enforcement actions under the appropriate Title and Subtitle for all sites or facilities (permitted, registered, licensed, and unpermitted).

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*Criminal Actions Charged -- Includes total number of criminal cases charged under the appropriate Title and Subtitle for all sites or facilities (permitted, registered, licensed, and unpermitted). A single criminal “case” against one defendant can be composed of multiple criminal “charges.” The numbers appearing in the SB 324 charts for MDE programs count “cases” involving one defendant or facility as one, while the statistics maintained by the Environmental Crimes Unit track the higher number of multiple “charges” against the single defendant.

*Convictions Obtained -- Includes total number of convictions obtained under the appropriate Title and Subtitle for all sites or facilities (permitted, registered, licensed, and unpermitted).

*Imprisonment Time Ordered -- Includes total amount of imprisonment time ordered under the appropriate Title and Subtitle for all sites or facilities (permitted, registered, licensed, and unpermitted).

*All Senate Bill 324 information is provided within the appropriate program, however, detailed criminal statistics are broken down into “counts” and “case disposition” in the Environmental Crimes Unit section of this report. Information in these two areas may be duplicative.

The Senate Bill requests information on the total amounts of money as a result of enforcement actions, as of the end of Fiscal Year 1997 and deposited into certain funds. This information is provided within the appropriate program, but is also summarized below for convenience.

DOLLARS OBTAINED AS A RESULT OF ENFORCEMENT ACTIONS	
Clean Air Fund	\$228,604
Clean Water Fund	\$489,309
Hazardous Substance Control Fund	\$ 33,827
Nontidal Wetland Compensation Fund	\$ 0
Oil Disaster Containment Clean Up and Contingency Fund	\$101,660
Recovered from Responsible Parties (under 7-221)	\$110,665
Sewage Sludge Utilization Fund	\$ 150
Total	\$964,215

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SENATE BILL 324

By: **Senators Frosh, Conway, Sfikas, Teitelbaum, Pinsky, Dyson, Hollinger, Collins, and Van Hollen**

An ACT concerning

Department of the Environment - Annual Enforcement Reports

FOR the purpose of requiring the Secretary of the Environment to submit to the Legislative Policy Committee a certain report on certain enforcement activities by a certain date each year; specifying the requirements for the report; requiring the Department to make the report available to the public as of a certain date each year; and generally relating to the annual reporting of enforcement activities by the Department of the Environment.

BY repealing and reenacting, with amendments,
Article - Environment
Section 1-301
Annotated Code of Maryland
(1996 Replacement Volume and 1996 Supplement)

SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF MARYLAND, That the Laws of Maryland read as follows:

Article - Environment

1-301.

(a) The Secretary shall carry out and enforce the provisions of this article and the rules and regulations adopted under this article.

(b) The Secretary may delegate duties, powers, and functions as provided in this article to a health officer for a county or to another county official authorized to administer and enforce environmental laws.

(c) In those counties where a county official other than the health officer is authorized to administer and enforce State environmental laws under this section, the county shall establish minimum qualifications for that county official that include standards of education and experience related to environmental issues.

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(D) (1) (I) On or before October 1 of each year, the Secretary, in consultation with the Attorney General, shall submit to the Legislative Policy Committee, in accordance with § 2-1312 of the State Government Article, a report on enforcement activities conducted by the department during the previous fiscal year.

(II) The report shall:

1. Include the information required under this subsection and any additional information concerning environmental enforcement that the Secretary decides to provide:

2. Be available to the public as soon as it is forwarded to the Legislative Policy Committee:

3. Include information on the total number of permits, and licenses issued by or filed with the department at any time and still in effect as of the last date of the fiscal year immediately preceding the date on which the report is filed; and

4. Include information concerning specific enforcement actions taken with respect to the permits, and licenses during the immediately preceding fiscal year.

(III) The information required in the report under paragraph (3) of this subsection shall be organized according to each program specified.

(2) The report shall state the total amount of money as a result of enforcement actions, as the end of the immediately preceding fiscal year:

(I) Deposited in the Maryland Clean Air Fund;

(II) Deposited in the Maryland Oil Disaster Containment, Clean-up and Contingency Fund;

(III) Deposited in the Nontidal Wetland Compensation Fund;

(IV) Deposited in the Maryland Hazardous Substance Control fund;

(V) Recovered by the Department from responsible parties in accordance with § 7-221 of this article;

(VI) Deposited in the Sewage Sludge Utilization Fund; and

(VII) Deposited in the Maryland Clean Water Fund.

(3) (I) The report shall include the information specified in subparagraphs (II), (III),

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(IV), and (V) of this paragraph for each of the following programs in the Department:

1. Ambient Air Quality Control under title 2, subtitle 4 of this article;
2. Oil Pollution under title 4, subtitle 4 of this article;
3. Nontidal Wetlands under title 5, subtitle 9 of this article.
4. Asbestos under title 6, subtitle 4 of this article;
5. Lead paint under title 6, subtitle 8 of this article;
6. Controlled hazardous substances under title 7, subtitle 2 of this article;
7. Water supply, sewerage systems, and refuse disposal systems under title 9, subtitle 2 of this article;
8. Water discharges under title 9, subtitle 3 of this article;
9. Drinking water under title 9, subtitle 4 of this article; and
10. Wetlands under title 16, or subtitle 2 of this article.

(II) For each of the programs set forth in subparagraph (I) of this paragraph, the department shall provide the total number of amount of:

1. Final permits, or licenses issued to a person or facility, as appropriate, and not surrendered, suspended, or revoked;
2. Inspections, audits, or spot checks performed at facilities permitted;
3. Injunctions obtained;
4. Show cause, remedial, and corrective action orders issued;
5. Stop work orders;
6. Administrative or civil penalties obtained;
7. Criminal actions charged, convictions obtained, imprisonment time ordered, and criminal fines received; and
8. Any other actions taken by the department to enforce the requirements of the applicable environmental program, including:

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A. Notices of the removal or encapsulation of asbestos under section 6-414.1 of this article; and

B. Actions enforcing user charges against industrial users under § 9-341 of this article.

(III) In addition to the information required in subparagraph (II) of this paragraph, for the lead paint program under title 6, subtitle 8 of this article, the report shall include the total number or amount of:

1. Affected properties registered; and
2. Inspectors or other persons accredited by the department, for whom accreditation has not been surrendered, suspended, or revoked.

(IV) In addition to the information required in subparagraph (ii) of this paragraph, for the controlled hazardous substances program under title 7, subtitle 2 of this article, the report shall include the following lists, updated to reflect the most recent information available for the immediately preceding fiscal year:

1. Possible controlled hazardous substance sites compiled in accordance with § 7-223(a) of this article;
2. Proposed sites listed in accordance with § 7-223© of this article at which the Department intends to conduct preliminary site assessments; and
3. Hazardous waste sites in the Disposal Site Registry compiled in accordance with § 7-223(f) of this article.

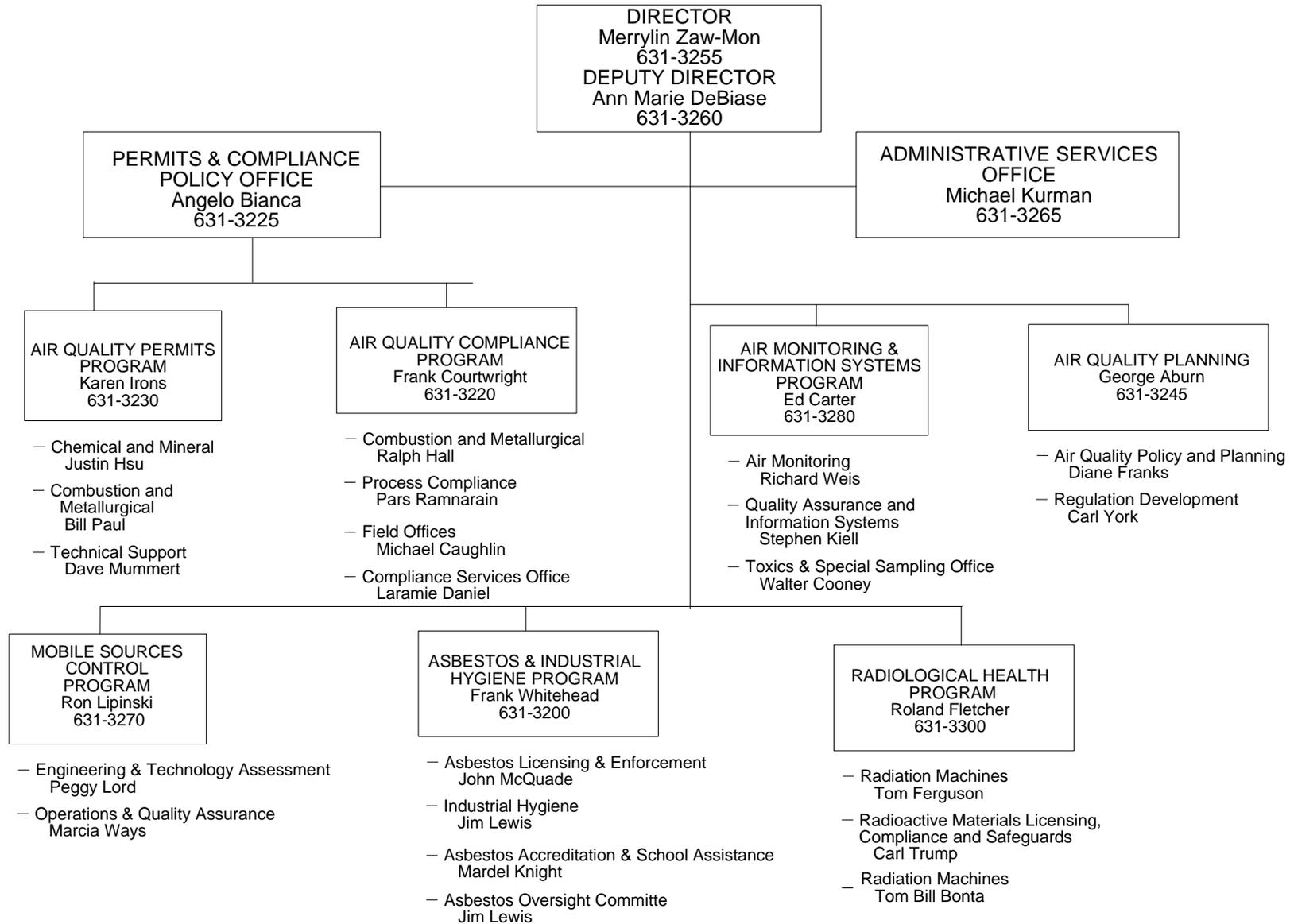
(V) In addition to the information required in subparagraph (II) of this paragraph, for the Drinking Water Program, the report shall include the total number of:

1. Actions to prevent public water system contamination or to respond to a Safe Drinking Water Act Emergency under §§ 9-405 and 9-406 of this article; and
2. Notices given to the public by public water systems under § 9-410 of this article.

Section 2. And be it further enacted, that this act shall take effect July 1, 1997.

**THE AIR AND RADIATION
MANAGEMENT
ADMINISTRATION**

AIR & RADIATION MANAGEMENT ADMINISTRATION



AMBIENT AIR QUALITY CONTROL

PURPOSE

There are approximately 10,000 stationary sources of air emissions registered in Maryland. The Air Quality Compliance Program is responsible for ensuring that these sources comply with applicable air pollution control requirements. Approximately 200 sources emit more than 95% of all the pollutants emitted from stationary sources. These sources and an additional 400 are the focus of this program due to concerns regarding potential emissions, toxic air pollutant emissions, or impact on the general welfare and are considered to have the potential for significant risk to public health or the environment. The more than 600 sources include facilities such as large industrial operations, paper mills, asphalt plants and incinerators. The remaining sources are generally smaller in terms of their emissions or their impacts and are considered to be of potential low risk to public health or the environment. Examples of these smaller sources include dry cleaning operations, charbroilers, small boilers, paint spray booths, and degreasing machines. For this reason, Measures of Success information is presented in two categories, *High Impact Air Emission Facilities* and *Low Impact Air Emission Facilities*.

AUTHORITY

FEDERAL: Clean Air Act, Title 1, Section 110

STATE: Environment Article, Title 2; COMAR 26.11

INSPECTION PROCESS

In inspecting facilities, a major focus is given to those 600+ sources described above that are considered a potential significant risk to public health or the environment. Often, multiple inspections are performed at these sources over the course of a year. Inspections are both announced and unannounced, depending on the nature and purpose of the inspection. Attention is given to smaller, lower risk sources through special initiatives that focus on inspecting all sources within a particular source category, spot-checks of a percentage of sources in a category where the category contains a large number of small sources, and the education of trade groups and equipment operators and owners.

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SB 324 -- Ambient Air Quality Control Title 2, Subtitle 4	
Permits/Licenses in Effect at close of FY 1997	16,181*
Permits/Licenses Issued in FY 1997	883**
Inspections, Audits, Spot Checks at Permitted Facilities	2,869***
Injunctions Obtained	0
Show Cause, Remedial, Corrective Action Orders Issued	10****
Stop Work Orders	0
Administrative or Civil Penalties Obtained	\$218,750*****
Criminal Actions Charged	1
Convictions Obtained	0
Imprisonment Time Ordered	0
Criminal Fines Received	0
Other Enforcement	3*****

* 16,181 equals Permits to Construct (15,723) and Permits to Operate (458). There are 10,137 permitted sites/facilities throughout the state, many of which have multiple permits. Please note that there are over 22,000 pieces of equipment registered and permitted in the State.

** Includes 813 Permits to Construct and 70 Permits to Operate.

*** Does not include inspections, audits or spot checks at registered or unpermitted facilities, only permitted facilities. Includes 2,055 Inspections, 760 Spot Checks, and 54 Observations/Stack tests. Please note that a total of 4,293 inspections, audits or spot checks occurred at all registered, permitted and unpermitted sources of air pollution.

**** 4 orders were issued to facilities that did not meet EPA's definition of a significant violator, and therefore are not counted in the Measures of Success Chart.

***** MDE obtained penalties from 9 facilities.

***** MDE entered into 1 administrative consent order, 1 administrative consent agreement, and 1 civil consent decree.

Please note, a total of \$228,604 was collected in FY 1997 as a result of enforcement actions for the Clean Air Fund. (\$218,750 was collected under Ambient Air Quality Program, and \$9,854 from the Asbestos program.)

Maryland Department of the Environment

Measures of Success -- Facilities with Permitted Discharges/Emissions High Impact Air Emission Facilities	
Number of Permitted Facilities	626
Number of Inspections	1,320
Number of Sites/Facilities Inspected	541
Percent of Sites/Facilities in Significant Compliance	99%
Percent of Sites/Facilities with Significant Violations	1%
Number of Significant Violations	9
Number of Inspected Sites/Facilities with Significant Violations	4
Number of Significant Violations Resolved	2
Number of Significant Violations On-Going	7
Number of Enforcement Actions Taken	4*
Number of Compliance Assistance Rendered	56

* 4 additional enforcement actions were taken in this category for facilities that did not meet EPA's definition of significant, however, violations were repetitive in nature and action was warranted.

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Measures of Success -- Facilities with Permitted Discharges/Emissions Low Impact Air Emission Facilities	
Number of Permitted Facilities	9,511*
Number of Inspections	2,435
Number of Sites/Facilities Inspected	1,632**
Percent of Sites/Facilities in Significant Compliance	99%
Percent of Sites/Facilities with Significant Violations	1%
Number of Significant Violations	44***
Number of Inspected Sites/Facilities with Significant Violations	9
Number of Significant Violations Resolved	7
Number of Significant Violations On-Going	37****
Number of Enforcement Actions Taken	4
Number of Compliance Assistance Rendered	14

* Facilities in this program operate equipment generally having small amounts of air emissions, such as dry-cleaning machines, charbroilers, small boilers, paint spray booths, and degreasing machines. All equipment at facilities in this category are required to be permitted or registered.

** Inspections are targeted toward those facilities that are the subject of complaints, are newly regulated or are of particular special interest from an air quality perspective. Special interest categories includes sector facility targeting (dry cleaners, auto body shops, etc.), and facilities that are subject to new air standards or federal regulations.

*** The majority of these violations related to a failure to take reasonable precautions to prevent particulate matter from going off-site, exceedences of Maryland's visible emissions standard, and odors. All facilities in this program are required to be permitted or registered. The term "significant" violation for this category of facilities is broader and more stringent than the term used by EPA.

**** These 37 violations are being resolved through the 4 enforcement actions noted in this table.

AIR QUALITY COMPLAINTS

PURPOSE

In addition to the approximately 10,000 registered or permitted sources of air emissions in Maryland, there are numerous sources of air pollution that are not required to be registered or permitted by the Department. Examples include some composting operations, construction sites, open burning activities, hot-tar roofing operations, material storage piles, welding and burning activities and certain portable operations of short duration. These sites or activities can create odors and can generate fugitive dust emissions to the point of causing a nuisance to neighboring persons or communities. The Air Pollution Complaints Program responds to complaints regarding nuisance odors and dust from both permitted and non-permitted operations. An average of 1,200 complaints are received each year. After investigation, some complaints reveal no basis for potential harm to environment or public health.

AUTHORITY

STATE: Environment Article, Title 2; COMAR 26.11

INSPECTION PROCESS

Complaints are addressed in a number of ways. A complaint situation may be of sufficient severity to warrant an immediate site visit. Complaints arising from severe nuisance situations generally result in the Department receiving multiple and separate complaints for a single situation. A complaint situation can also be a sporadic occurrence, which leads to increased surveillance of the site in an attempt to verify the existence of a problem, which could then generate a need to conduct a formal inspection. Some complaints, particularly where only an explanation of what is allowed is needed, can be resolved through phone contact or letters.

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Measures of Success -- Site/Facility Maintenance Program Air Quality Complaints	
Number of Sites/Facilities	317
Number of Inspections	538
Number of Sites/Facilities Inspected	317
Percent of Sites/Facilities in Significant Compliance	92%
Percent of Sites/Facilities with Significant Violations	8%
Number of Violations Which Resulted in Environmental/Health Impact	0
Number of Violations Which Were Technical/Preventive in Nature	33
Number of Inspected Sites/Facilities with Significant Violations	26
Number of Significant Violations Resolved	32
Number of Significant Violations On-Going	1
Number of Enforcement Actions Taken	1*
Number of Compliance Assistance Rendered	31

* Most violations related to open burning activities or the creation of off-site nuisances caused by odors or dust from sites **not required to be permitted or registered**. Violations such as these rarely result in actual harm, but have the potential to cause harm to the environment or public health, and on this basis are included in this report. Nearly all violations in this program were resolved without the need to take enforcement action, as they generally related to short-lived activities, were quickly corrected (often at the time of inspection), did not reoccur, and resulted in no actual harm to public health or the environment.

ASBESTOS

PURPOSE

The Asbestos and Industrial Hygiene Program manages the licensing of asbestos removal contractors and to oversees their efforts when removing or encapsulating asbestos to assure that it is removed in a manner that is protective of human health. Any project that involves demolition or the removal of more than 240 linear feet or more than 160 square feet of asbestos-containing material is subject to federal safety standards under EPA's National Emission Standards for Hazardous Air Pollutants (NESHAP), program and all projects are subject to requirements under state laws and regulations. Projects can range from something as small as a single pipe wrapping to a major removal project at a power plant or similarly large facility.

AUTHORITY

FEDERAL: Clean Air Act, Title 1, Section 112

STATE: Environment Article, Title 6, Subtitle 4; COMAR 26.11.21

INSPECTION PROCESS

Removing or encapsulating asbestos is required to be done by a contractor licensed by MDE for such purposes, and the contractor is required to notify the Department of the location of the activity and the approximate amount of asbestos-containing material to be removed or encapsulated prior to undertaking such work.. From the information contained in the notification, the Department will determine whether the project is required to meet federal safety standards. Approximately 25% to 30% of all asbestos projects undertaken are subject to federal program requirements. Projects subject to such requirements are considered a priority and an inspection will generally take place. Priority is also given to inspecting contractors with poor performance records, projects in close proximity to other priority projects (for inspection efficiency) and projects for which complaints have been lodged. The focus of an inspection is on determining whether a contractor is adhering to strict safety standards designed to protect workers and the public from exposure to asbestos. Because there is no safe level of exposure to asbestos, almost any violation is considered significant.

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SB 324 -- Asbestos Title 6, Subtitle 4	
Permits/Licenses in Effect at close of FY 1997	182*
Permits/Licenses Issued in FY 1997	158**
Inspections, Audits, Spot Checks at Permitted Facilities	1,084
Injunctions Obtained	1
Show Cause, Remedial and Corrective Action Orders Issued	2
Stop Work Orders	1
Administrative or Civil Penalties Obtained	\$9,854
Criminal Actions Charged	0
Convictions Obtained	0
Imprisonment Time Ordered	0
Criminal Fines Received	0
Other Enforcement	8***
Notices to MDE of removal or encapsulation of asbestos	3,372

* 182 active licenses. Sites/Facilities are not permitted, licenses are issued to contractors to remove asbestos, however, inspections are conducted for the project at a site/facility.

** Includes renewal licenses.

*** 7 penalty actions and 1 revoked license.

Maryland Department of the Environment

Measures of Success -- Site/Facility Maintenance Program Asbestos	
Number of Sites/Facilities	3,422*
Number of Inspections	1,084
Number of Sites/Facilities Inspected	820
Percent of Sites/Facilities in Significant Compliance	94%
Percent of Sites/Facilities with Significant Violations	6%
Number of Violations Which Resulted in Environmental/Health Impact	73**
Number of Violations Which were Technical/Preventive in Nature	32***
Number of Inspected Sites/Facilities with Significant Violations	49
Number of Significant Violations Resolved	85
Number of Significant Violations On-Going	20
Number of Enforcement Actions Taken	12****
Number of Compliance Assistance Rendered	17

* Total number of active projects (some are still active under previous fiscal year). Projects can range from small pipe wrappings to large removal actions.

** There is no known safe level of exposure for asbestos. Accordingly, any violation that causes asbestos fibers to become airborne is considered to have a health impact. Violations in this category include those projects that are “open” renovations with insufficient protective cover and general population or worker safety was a factor.

*** Certain violations, such as failure to properly tag bags containing asbestos and failure to totally remove all asbestos containing material, can be and often are corrected immediately upon being noted by an inspector, and do not result in any actual harm to public health. These violations are still considered significant and are treated as such, but are categorized as technical/preventive.

**** Enforcement actions are targeted against repeat or blatant offenders and those projects where population is affected.

RADIATION

PURPOSE

The Radiological Health Program's charge is to minimize the public's exposure to radiation emitted from non-naturally occurring sources such as dental and veterinary x-ray machines, mammography machines, x-ray machines used in medical settings to diagnose or treat illnesses and radiation emitting devices used in industrial applications. The Radiological Health Program conducts inspections of mammography, dental and veterinary facilities to evaluate the accuracy of the machines and to assess the adequacy of operator credentials, operating procedures and the film development process. This ensures minimum exposure and high quality imaging. The Program issues licenses to private inspectors to inspect radiation emitting machines at hospitals, private medical facilities and academic institutions and reviews the reports submitted by the licensed inspectors. Also, the Program issues licenses to persons who receive, transfer, store and use radioactive materials and evaluates these licensees to verify proper use of the radioactive isotope covered by the license and to determine whether there is adherence to radiation safety.

Minimization is important since excessive radiation exposure can cause health impacts which can occur as a result of receiving numerous small exposures over time as well as receiving a single large exposure. Documented health impacts are rare. The medical benefits of radiation diagnostic, therapy and treatment procedures far outweigh the low potential risk of harm.

AUTHORITY

FEDERAL: Radiation Control for Health and Safety Act; Mammography Quality Standards Act; Atomic Energy Act

STATE: Environment Article, Title 8, Subtitle 1; COMAR 26.12

INSPECTION PROCESS

Dental and veterinarian machines are inspected by MDE on a 3-year cycle. Under a contractual arrangement with the U.S. Food and Drug Administration, mammography machines are inspected annually by MDE. Inspections of radiation-emitting machines in hospitals, private medical facilities and academic institutions are performed by inspectors licensed by MDE. Inspection priorities for these machines are based on the type of the machine, with inspection intervals ranging from 1 to 4 years. Following MDE's review and approval of an inspection report from a licensed inspector, the inspected machine is issued a certification by MDE. An inspection in any of the program categories above involves verification of the accuracy and intensity of the radiation beam, verifying the accuracy of the dosage timer and checking the use of proper film development procedures. A review of operator credentials and adherence to safety procedures may also be included as part of an inspection. Under the radioactive materials licensing program, inspections are made on a quarterly through a 5-year cycle. An inspection in this area focuses on a review of the conditions of the issued license and of the licensee's adherence to radiation safety procedures and practices.

Measures of Success--Site/Facility Maintenance Program

Maryland Department of the Environment

Radiation	
Number of Sites/Facilities	5,080*
Number of Inspections	2,739**
Number of Sites Inspected	2,240
Percent of Sites/Facilities in Significant Compliance	37.5%
Percent of Sites/Facilities with Significant Violations	62.5%***
Number of Violations Which Resulted in Environmental/Health Impact	0****
Number of Violations Which were Technical/Preventive in Nature	3,492*****
Number of Inspected Sites/Facilities with Significant Violations	1,400
Number of Significant Violations Resolved	3,030
Number of Significant Violations On-Going	462
Number of Enforcement Actions Taken	14*****
Number of Compliance Assistance Rendered	827

- * A site/facility may have multiple radiation machines. Includes 4,490 sites with radiation machines for dental and veterinary x-ray machines, mammography machines, and x-ray machines used in medical settings, and 590 radioactive material user licenses.
- ** Does not include the 1,455 inspections performed by licensed inspectors for machines emitting radiation. At the close of FY 1997 there were 69 licensed private inspectors.
- *** Most violations in the Radiation Programs are considered significant due to radiation's potential to impose instantaneous harm and because radiation overexposure can occur through a cumulative path. There are numerous items in which a facility must demonstrate compliance with radiation laws. A deficiency in any single item, even if corrected immediately, will result in a facility being in non-compliance. Most machine owners and radiation licensees correct deficiencies immediately if possible, or within 30 days of an inspection, to avoid any possible action that could affect their license or machine certification.
- **** No cases of reported overexposure.
- ***** At the majority of facilities, all radiation machine patient safety (exposure-related) parameters are satisfactory, but deficiencies exist in non-exposure related aspects of the operation, such as failure to post notices, not using fresh film development solution, operators not using their dosimetry badges and not properly documenting corrective actions.
- ***** Enforcement actions generally are taken against egregious violators, such as owners or licensees who refuse or fail to correct deficiencies in a timely manner. Also, note that the FDA is responsible for taking enforcement actions for violations in the mammography program, and any such actions taken by that agency are not included in this report.

**WASTE MANAGEMENT
ADMINISTRATION**

WASTE MANAGEMENT ADMINISTRATION

DIRECTOR
Rick Collins
631-3305
ACTING DEPUTY
DIRECTOR
Regina Rochez
631-3304

OFFICE OF PLANNING & OUTREACH SERVICES
Regina Rochez
631-3304

- County Solid Waste Plan Review
- Regional Offices
- Legislation
- Outreach
- Training
- Freedom of Information Act (FOIA) Requests
- State Clearinghouse Review

OFFICE OF ADMINISTRATIVE SERVICES
Jim McClafferty
631-3535

- Budget
- Audit Review
- Underground Storage Tank (UST) Loan Collection
- Fair Practice
- Personnel
- Grants
- Fleet Management
- Data/Information Systems Management
- Accounts Receivable
- Procurement

REGULATORY & TECHNICAL ASSISTANCE PROGRAM
Alvin Bowles
631-3441

- Regulatory Dev. & Review Div.
- Environmental Lead Div.
- Lead Admin. Services Sect.
- Lead Compliance Sect.
- LEAD COORDINATION DIV.
- Lead Rental Registry Sect.
- Lead Poisoning Prevent. Sect.

SOLID WASTE PROGRAM
Barry Schmidt
631-3318

- DESIGN & CERTIFICATION DIV.
Solid Waste Facilities Sect.
Sewage Sludge Utiliz. Sect.
- FIELD OPER. & COMPLIANCE DIV.
Investigat. & Remediat. Sect.
Compliance Inspections Sect.
- RECYCLING SERVICES DIV.
State & County Programs Sect.
Recycling Systems Sect.

HAZARDOUS WASTE PROGRAM
Harold Dye, Jr.
631-3343

- REGULATIONS/PERMITTING DIV.
Permitting Sect.
- TRACKING/HAZ. MAT. TRANSP. DIV.
Tracking Sect.
Haz. Mat. Transport. Sect.
- HAZARDOUS WASTE ENFORCEMENT DIV.

ENVIRONMENTAL RESTORATION & REDEVELOPMENT PROGRAM
Shari Wilson
631-3437

- SITE ASSESSMENT/STATE SUPER. DIV.
Site Assess/State Superfund Sect.
Site Assessment Team
State Superfund Team
- FEDERAL/NPL SUPREFUND DIV.
Federal Sect.
NPL Superfund Sect.
- VOLUNTARY CLEANUP DIV.

OIL CONTROL PROGRAM
Horacio Tablada
631-3386

- OFFICE OF RESOURCE MGMT.
Fees Sect.
Data Management Sect.
- PERMITS & SUPPORT DIV.
- COMPLIANCE & REMED. DIV.
Region I
Region II
Region III
Region IV
Special Oper. Sect.

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ENVIRONMENTAL RESTORATION AND REDEVELOPMENT PROGRAM

PURPOSE

The purpose of this program is to identify sites that are actually or potentially contaminated by controlled hazardous substances and to prioritize activities on those sites to best protect public health and the environment. These activities involve maintaining the State Master List, the Disposal Site Registry and conducting or requiring the environmental assessment of sites contaminated with hazardous waste.

AUTHORITY

FEDERAL: Comprehensive Environmental Response, Compensation and Liability Act of 1980

STATE: Environment Article, Title 7, Subtitle 2; COMAR 26.14

PROCESS

The Department maintains two lists that identify sites that are actually or potentially contaminated by controlled hazardous substances. The State Master List is a list of all sites reported to be potentially contaminated. The Department conducts environmental assessments through research, characterization and testing of sites to identify those sites that warrant listing on the State Master List or, in some cases, removal from the State Master List because no risk is posed. The site assessment staff review these sites as resources are available to determine the priority of the site. The Disposal Site Registry ranks sites in priority for remedial action. This list currently ranks those sites determined to pose the greatest threat to human health and the environment in accordance with the federal hazard ranking system score.

Controlled Hazardous Substances Program	Number of sites
State Master List (7-223(a))	454
Disposal Site Registry (7-223(f))	13
Intended number of preliminary assessments of State Master List sites	3

The total amount of money collected during FY 97 from responsible parties as a result of cost recovery under 7-221 is \$110,665.

This information was required by SB 324. Please note that the enforcement for the sites under this program would come under the RCRA Hazardous Waste Program. For an actual listing of sites on both the State Master list and the Disposal Site Registry, please see Appendix A.

HAZARDOUS WASTE

PURPOSE

The Federal Resource Conservation and Recovery Act (RCRA) of 1976, established a system for controlling the disposition of hazardous waste from generation until its ultimate disposal. The Hazardous Waste Program regulates the management of hazardous wastes through the review and issuance of hazardous waste treatment, storage or disposal facility permits. The Program assists the U.S. Environmental Protection Agency in monitoring Corrective Action Permits (closure permits). It enforces all permits and regulated activities at hazardous waste generators, transporters and facilities through inspections, monitoring and initiation of compliance actions including issuance of site complaints and development of formal legal actions.

AUTHORITY

FEDERAL: Resource Conservation and Recovery Act (RCRA) - Subtitle C

STATE: Environment Article, Title 7, Subtitle 2; COMAR 26.13

INSPECTION PROCESS

The Hazardous Waste Program's Enforcement Division is responsible for RCRA violation discovery and compliance activities. The focus of the enforcement program is on those hazardous waste treatment, storage and disposal facilities which pose the greatest threat to public health and the environment or which have been previously cited for violations and have not responded or continue to be out of compliance. Hazardous waste management is accomplished by unannounced inspections of permitted facilities, generators and transporters as well as investigations of complaints.

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SB 324 -- Controlled Hazardous Substances Title 7, Subtitle 2	
Permits/Licenses in Effect at the Close of FY 1997	31
Permits/Licenses Issued in FY 1997	4*
Inspections, Audits, Spot Checks at Permitted Facilities	105
Injunctions Obtained	1
Show Cause, Remedial, Corrective Action Orders Issued	4
Stop Work Orders	0
Administrative or Civil Penalties Obtained	\$25,067
Criminal Actions Charged	3
Convictions Obtained	1
Imprisonment Time Ordered	24 months probation
Criminal Fines Received	\$8,760
Other Enforcement	31

* 3 of the 4 permits issued in FY 1997 were emergency permits.

As a result of enforcement activities, a total of \$33,827 was deposited into the Hazardous Substance Control Fund, of which \$10,000 was from permitted facilities.

Maryland Department of the Environment

Measures of Success--Site/Facility Maintenance Program Hazardous Waste	
Number of Sites/Facilities	8,321*
Number of Inspections	687
Number of Sites/Facilities Inspected	325
Percent of Sites/Facilities in Significant Compliance	88%
Percent of Sites/Facilities with Significant Violations	12%
Number of Violations Which Resulted in Environmental/Health Impact	26
Number of Violations Which were Technical/Preventive in Nature	38
Number of Inspected Sites/Facilities with Significant Violations	39
Number of Significant Violations Resolved	23
Number of Significant Violations On-Going	41
Number of Enforcement Actions Taken	36
Number of Compliance Assistance Rendered	14

* This includes both permitted and unpermitted facilities, 31 of which have permits for treatment, storage and/or disposal of hazardous waste. The remainder of the sites inspected were generators and haulers of hazardous waste. Of these, approximately 600 are considered large quantity generators (more than 2,200 lbs/month), 4,00 are medium quantity generators (220 lbs-2,200 lbs/month) and the remainder are small (less than 220 lbs/month). These businesses produce hazardous waste as part of their operations and package that waste, manifest it, and ship it off site via a certified hauler for ultimate disposal.

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LEAD POISONING PREVENTION

PURPOSE

The Lead Poisoning Prevention Division, includes oversight of lead poisoning prevention activities to reduce the incidence of childhood lead poisoning. These activities involve: enforcement; maintaining a registry of rental properties; maintaining a registry of lead poisoned children; and accreditation and oversight of lead abatement services contractors.

AUTHORITY

FEDERAL: Toxic Substance Control Act

STATE: Environment Article, Title 6, Subtitle 8; COMAR 26.16 and Environment Article, Title 7, Subtitle 2; COMAR 26.02

PROCESS

Accreditation and oversight of lead paint service contractors is a 4 step process. Attendance at multiple day training sessions, which includes acceptable work practices, health effects and applicable State and Federal statutory requirements must occur. Contractors must show evidence of fulfilling an experience requirement and submit a protocol to MDE for the work they are being accredited to perform. Receipt a formal letter of accreditation from MDE is obtained upon completion of this work. Review training courses are required every two years.

Property registration is also required to reduce the incidence of childhood lead poisoning while maintaining the stock of available rental housing. Owners of affected property must report to MDE on required forms annually. An annual per unit fee is paid into the Lead Poisoning Prevention for the establishment of a Community Outreach and Education program and for administration of the program. Affected properties (rental dwelling properties) must be inspected at turnover by accredited personnel.

SB 324 Material Required of the Lead Paint Program		
<i>Lead Paint</i>	<i>Property Registration</i>	<i>Accreditation</i>
<i>Total Number</i>	50,159	1,590
<i>Inspections</i>	10,492	n/a
<i>Spot Checks</i>	149	n/a
<i>Audits</i>	n/a	27

Maryland Department of the Environment

SB 324 -- Lead Poisoning Prevention Program Title 6, Subtitle 8	
Permits/Licenses in Effect at the Close of FY 1997	N/A*
Permits/Licenses Issued in FY 1997	N/A*
Inspections, Audits, Spot Checks at Permitted Facilities	10,668**
Injunctions Obtained	0
Show Cause, Remedial, Corrective Action Orders Issued	32
Stop Work Orders	0
Administrative or Civil Penalties Obtained	0
Criminal Actions Charged	0
Convictions Obtained	0
Imprisonment Time Ordered	0
Criminal Fines Received	0
Other Enforcement	9***

* The Lead Program does not issue permits or licenses, it consists of: a property registration program for affected properties; an accreditation program for training providers, inspectors, and supervisors; and the childhood registry for tracking blood lead reports. Final rulemaking provisions became effective 2/24/96, and the number of actions reflect activity from 2/24/96 through 6/30/97.

** 10,668 includes 10,492 inspections, 27 audits, and 149 spot checks. These include inspections performed by accredited private inspectors. Inspections of "affected properties" (rental dwelling units) are performed by accredited inspectors, not MDE personnel. They are triggered by a change of occupancy or owner receiving a notice of defect from a tenant. Spot checks and audits are performed by MDE.

*** 9 Failed to Register.

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Measures of Success--Site/Facility Maintenance Program Lead Poisoning Prevention	
Number of Sites/Facilities	50,159
Number of Inspections	10,668
Number of Sites/Facilities Inspected	10,492
Percent of Sites/Facilities in Significant Compliance	99%
Percent of Sites/Facilities with Significant Violations	1%
Number of Violations Which Resulted in Environmental/Health Impact	26
Number of Violations Which were Technical/Preventive in Nature	15
Number of Inspected Sites/Facilities with Significant Violations	41
Number of Significant Violations Resolved	8
Number of Significant Violations On-Going	33
Number of Enforcement Actions Taken	41
Number of Compliance Assistance Rendered	0*

* While the Lead Program has assisted property owners, tenants and contractors in complying with the regulations through seminars or one time visits to sites to explain the requirements, these services do not meet the *compliance assistance* definition in this report.

OIL -- ABOVE-GROUND STORAGE TANKS (AST)

PURPOSE

The oil operations permit for Above-ground Storage Tanks (AST permit) is issued to facilities within the state which store, deliver or transfer petroleum products. The issuance of these permits are to ensure that petroleum products are handled in a way that protects public health, safety and the environment.

AUTHORITY

STATE: Environment Article, Title 4, Subtitle 4; COMAR 26.10

INSPECTION PROCESS

The regional environmental inspector schedules routine inspections of the facility. The inspection frequency can be adjusted as facility conditions warrant. During the inspection the facility conditions are documented and the permittee is advised of the status of compliance. If corrective action is warranted the facility will be directed in accordance with Departmental guidelines and procedures.

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Information presented in the Senate Bill chart below is for Oil Above-Ground Tanks, Oil (Contaminated Soil) Operations, Oil Pollution Remediation Activities, and Oil Underground Storage Tanks.

SB 324 -- Oil Pollution Control Activities Title 4, Subtitle 4	
Permits/Licenses in Effect at the Close of FY 1997	1,045*
Permits/Licenses Issued in FY 1997	207
Inspections, Audits, Spot Checks at Permitted Facilities	231
Injunctions Obtained	0
Show Cause, Remedial, Corrective Action Orders Issued	61
Stop Work Orders	0
Administrative or Civil Penalties Obtained	\$101,660
Criminal Actions Charged	1
Convictions Obtained	1
Imprisonment Time Ordered	0
Criminal Fines Received	\$12,500
Other Enforcement	434**

* Includes oil storage facilities, oil transfer facilities, above-ground storage tanks, oil contaminated soil facilities, and interstate trucks that carry petroleum product.

** Total of enforcement actions taken in all four oil programs sited above.

A total of \$101,660 was deposited into the Oil Disaster Containment, Clean-up and Contingency Fund in FY 1997 as a result of actions within the Oil Program.

Maryland Department of the Environment

Measures of Success--Site/Facility Maintenance Program Above-Ground Storage Tanks	
Number of Sites/Facilities	871*
Number of Inspections	1,812
Number of Sites/Facilities Inspected	865
Percent of Sites/Facilities in Significant Compliance	82%
Percent of Sites/Facilities with Significant Violations	18%
Number of Violations Which Resulted in Environmental/Health Impact	33
Number of Violations Which were Technical/Preventive in Nature	122
Number of Inspected Sites/Facilities with Significant Violations	155
Number of Significant Violations Resolved	148
Number of Significant Violations On-Going	7
Number of Enforcement Actions Taken	155**
Number of Compliance Assistance Rendered	1,657

* 535 of these facilities are permitted bulk oil storage terminals with tanks over 10,000 gallons, typically these may be large end users of product (utilities or steel mills) with above ground storage capacity. The remaining 336 sites are facilities with tanks less than 10,000 gallons storage capacity permitted under a general permit, such as apartment buildings, fire stations, and small transportation companies.

OIL (CONTAMINATED SOIL) OPERATIONS

PURPOSE

The Oil (Contaminated Soil) Operations Permit is issued to facilities within the state which store and/or treat soil contaminated with petroleum from tank leaks or highway accidents. Permits are issued to ensure that the treatment and the soil handling processes are performed in a manner which protects public health, safety and the environment.

AUTHORITY

STATE: Environment Article, Title 4, Subtitle 4; COMAR 26.10

INSPECTION PROCESS

The regional environmental inspector schedules routine inspections of the facility. The inspection frequency can be adjusted as facility conditions warrant. During the inspection the facility conditions are documented and the permittee is advised of the status of compliance. If corrective action is warranted the facility will be directed in accordance with Departmental guidelines and procedures.

Maryland Department of the Environment

MEASURES OF SUCCESS--FACILITIES WITH PERMITTED DISCHARGES/EMISSIONS Oil (Contaminated Soil) Operations	
Number of Permitted Facilities	10*
Number of Inspections	14
Number of Sites/Facilities Inspected	8
Percent of Sites/Facilities in Significant Compliance	37%
Percent of Sites/Facilities in with Significant Violations	63%
Number of Significant Violations	5
Number of Inspected Sites/Facilities with Significant Violations	5
Number of Significant Violations Resolved	4
Number of Significant Violations On-Going	1
Number of Enforcement Actions Taken	5
Number of Compliance Assistance Rendered	9

*One of these facilities is inactive.

OIL POLLUTION REMEDIATION ACTIVITIES

PURPOSE

The Oil Control Program oversees the remediation activities at sites where petroleum products have been discharged. Typically these cases are referred to as “leaking underground storage tanks” (LUST) sites. These sites include gasoline service stations with old tanks, businesses that have large truck fleets and their own petroleum distribution centers or old closed out service stations from years ago. The Programs oversight is to ensure that responsible parties remediate in a manner which is protective of public health, safety, the environment and that the natural resources of the State are returned to conditions which exist before the degradation occurred..

AUTHORITY

FEDERAL: Solid Waste Disposal Act of 1970, as amended by the Resource Conservation and Recovery Act of 1976.

STATE: Environment Article, Title 4, Subtitle 4; and Title 7, Subtitle 2; COMAR 26.10

INSPECTION PROCESS

When a release of petroleum product is reported to the Department, the investigation is assigned to a regional inspector. The inspector will prioritize the effort of response to the release based on product type, amount released and potential impacts from the release. The regional environmental inspector may draw on support from other personnel within the Program, or Department to assist in the response as conditions warrant. The inspection frequency also is determined per site as conditions warrant. During the inspection of remedial sites conditions are documented and the responsible party is given direction and advised of the status of compliance. If enforcement action is warranted the action will be performed in accordance with Departmental guidelines and procedures.

Maryland Department of the Environment

Measures of Success--Site/Facility Maintenance Program Oil Pollution Remediation Activities	
Number of Sites/Facilities	1,550*
Number of Inspections	7,048
Number of Sites/Facilities Inspected	1,550
Percent of Sites/Facilities in Significant Compliance	94%
Percent of Sites/Facilities with Significant Violations	6%
Number of Violations Which Resulted in Environmental/Health Impact	96**
Number of Violations Which were Technical/Preventive in Nature	0
Number of Inspected Sites/Facilities with Significant Violations	96
Number of Significant Violations Resolved	79
Number of Significant Violations On-Going	17
Number of Enforcement Actions Taken	98
Number of Compliance Assistance Rendered	6,952

* These sites are typically older service stations where underground tanks have leaked, hospitals, churches and hotels with on site underground tank fuel oil storage.

** These are leaking underground storage tanks that have actually impacted the environment or citizens are on filtration systems. Note 98 enforcement actions were taken to put these sites or facilities under remedial compliance plans.

OIL -- UNDERGROUND STORAGE TANKS (UST)

PURPOSE

The Oil Control Program regulates activities associated with the storage of regulated substance in underground storage tanks throughout Maryland. The program assists industry in the prevention of the release of regulated substance by ensuring compliance with release detection, corrosion and overfill prevention, insurance requirements and the installation of vapor recovery systems.

AUTHORITY

FEDERAL: Solid Waste Disposal Act of 1970, as amended by the Resource Conservation and Recovery Act of 1976.

STATE: Environment Article, Title 4, Subtitle 4; COMAR 26.10

INSPECTION PROCESS

Each regional inspector is supplied with a list of registered underground storage tanks within their region. The regional environmental inspector schedules routine inspections of the facility. The inspection frequency can be adjusted as facility conditions warrant. During the inspection the facility conditions are documented and the tank owner is advised of the status of compliance. If corrective action is warranted the facility will be directed in accordance with Administration guidelines and procedures.

Maryland Department of the Environment

Measures of Success--Site/Facility Maintenance Program Underground Storage Tanks	
Number of Sites/Facilities	11,505*
Number of Inspections	3,284
Number of Sites/Facilities Inspected	662
Percent of Sites/Facilities in Significant Compliance	64%
Percent of Sites/Facilities with Significant Violations	36%
Number of Violations Which Resulted in Environmental/Health Impact	0**
Number of Violations Which were Technical/Preventive in Nature	237
Number of Inspected Sites/Facilities with Significant Violations	237
Number of Significant Violations Resolved	230
Number of Significant Violations On-Going	7
Number of Enforcement Actions Taken	237
Number of Compliance Assistance Rendered	3,047

* The majority of these sites are service stations in Maryland, but would also include hospitals, bus companies, cab companies, and hotels with underground oil storage tanks.

** Activities with this program are technical in nature, such as inventory recordkeeping, facility housekeeping maintenance and insurance records.

REFUSE DISPOSAL

PURPOSE

These permits are required for the construction and operation of solid waste acceptance facilities (landfills, transfer stations, processing facilities, and solid waste incinerators). The purpose of the permits is to ensure that systems of solid waste disposal are managed in a manner that does not endanger public health or the environment. Also, groundwater discharge permits are issued to any existing rubble landfill that does not have a liner or leachate collection.

AUTHORITY

FEDERAL: Federal Resource Conservation and Recovery Act, Subtitle D.

STATE: Environment Article, Title 9, Subtitle 3; COMAR 26.08.

INSPECTION PROCESS

Routine inspections are performed monthly, although the frequency of inspection will vary depending upon the presence of problems at the facility, inspector workload, and other factors. If a significant violation is found, the inspector may issue a site complaint. Uncorrected violations, or a significant violation having the potential for environmental impact, may result in issuance of an administrative penalty and/or corrective order. Injunctive relief may be sought for serious problems which have a high potential to endanger public health or the environment. A significant percentage of the inspector's time within this program area may be spent in investigating citizen complaints regarding illegal waste disposal activities.

Maryland Department of the Environment

SB 324 -- Refuse Disposal/Groundwater Discharge Title 9, Subtitle 2 and Subtitle 3	
Permits/Licenses in Effect at the Close of FY 1997	77
Permits/Licenses Issued in FY 1997	20*
Inspections, Audits, Spot Checks at Permitted Facilities	578
Injunctions Obtained	1
Show Cause, Remedial, Corrective Action Orders Issued	3
Stop Work Orders	0
Administrative or Civil Penalties Obtained	\$17,000
Criminal Actions Charged	5**
Convictions Obtained	3***
Imprisonment Time Ordered	1****
Criminal Fines Received	\$11,000*****
Other Enforcement	31

* 18 refuse disposal permits; 2 groundwater permits.

** Prosecuted under Art 27, Sec. 468 (Litter Control Law)

*** Solid waste cases under the Litter Control Law.

**** Sentence imposed but suspended pending probation.

***** \$11,000 in criminal fines imposed; all but \$1,600 suspended pending probation.

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Measures of Success--Site/Facility Maintenance Program Refuse Disposal	
Number of Sites/Facilities	249*
Number of Inspections	777
Number of Sites/Facilities Inspected	245
Percent of Sites/Facilities in Significant Compliance	88%
Percent of Sites/Facilities with Significant Violations	12%
Number of Violations Which Resulted in Environmental/Health Impact	2
Number of Violations Which were Technical/Preventive in Nature	34
Number of Inspected Sites/Facilities with Significant Violations	29
Number of Significant Violations Resolved	28
Number of Significant Violations On-Going	8
Number of Enforcement Actions Taken	36
Number of Compliance Assistance Rendered	3

* Includes 77 permitted (active) facilities as well as closed landfills, unpermitted facilities that were inspected as a result of compliance investigations, and open dumping activities.

SCRAP TIRES

PURPOSE

These licenses are required for the hauling, collection, storage, processing, recycling, and burning of scrap tires in the State. The purpose of the licenses is to ensure that scrap tires are managed in a manner that does not endanger public health and the environment. More specifically, the purpose is to prevent dumping of scrap tires.

AUTHORITY

STATE: Environment Article, Title 9, Subtitle 2; COMAR 26.04

INSPECTION PROCESS

Collection facilities are categorized by size into secondary, primary, and general collection facilities. The larger facilities are inspected more frequently than the smaller ones. If a violation is significant, the inspector may issue a site complaint, with the concurrence of a supervisor. Orders and/or penalties may be issued to compel the cleanup of scrap tire dumping sites. A State fund is available for removal of scrap tires from dump sites if the owner fails to remove them. If the fund is used for this purpose, cost recovery is required. Inspectors also investigate citizen complaints alleging illegal dumping or mismanagement of scrap tires.

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SB 324 -- Scrap Tires Title 9, Subtitle 2	
Permits/Licenses in Effect at the Close of FY 1997	3379
Permits/Licenses Issued in FY 1997	223
Inspections, Audits, Spot Checks at Permitted Facilities	113
Injunctions Obtained	0
Show Cause, Remedial, Corrective Action Orders Issued	0
Stop Work Orders	0
Administrative or Civil Penalties Obtained	0
Criminal Actions Charged	4*
Convictions Obtained	0
Imprisonment Time Ordered	0
Criminal Fines Received	0
Other Enforcement	21**

* Prosecuted under Article 27, Section 468 (Litter Control Law)

** Includes 9 notices to property owners to gain access to assume clean up (not included in Measures of Success).

Maryland Department of the Environment

Measures of Success--Site/Facility Maintenance Program Scrap Tires	
Number of Sites/Facilities	3,379*
Number of Inspections	571
Number of Sites/Facilities Inspected	88
Percent of Sites/Facilities in Significant Compliance	86%
Percent of Sites/Facilities with Significant Violations	14%
Number of Violations Which Resulted in Environmental/Health Impact	1
Number of Violations Which were Technical/Preventive in Nature	11
Number of Inspected Sites/Facilities with Significant Violations	12
Number of Significant Violations Resolved	11
Number of Significant Violations On-Going	1
Number of Enforcement Actions Taken	12
Number of Compliance Assistance Rendered	1

* Sites and facilities include approximately 1,860 general collection sites, 660 secondary collection sites, and 9 major scrap tire collectors and recyclers, and approximately 850 haulers.

SEWAGE SLUDGE UTILIZATION

PURPOSE:

These permits are required for the transportation, collection, handling, storage, treatment, land application, or disposal of sewage sludge in the State. The purpose of the permits is to ensure that sewage sludge is managed in a manner that does not endanger public health or the environment. Sewage sludge utilized in Maryland is: applied on farm land or abandoned mines, composted, land filled, or incinerated. Permits include applicable nutrient management plans and other necessary documents.

AUTHORITY:

STATE: Environment Article, Title 9, Subtitle 2; COMAR 26.04

INSPECTION PROCESS:

Composting facilities and pelletizers are inspected monthly; storage facilities are inspected monthly when in use; landfill disposal operations are inspected during the course of routine landfill inspections; and land application sites are inspected when the workload allows. The inspector may recommend corrective actions to take, if any are required. If a significant violation is found, the inspector may issue a site complaint. Inspectors also investigate citizen's complaints at sewage sludge utilization sites regarding odors and concerns about the potential for water pollution or disease transmission.

Maryland Department of the Environment

SB 324 -- Sewage Sludge Utilization Title 9, Subtitle 2	
Permits/Licenses in Effect at the Close of FY 1997	936
Permits/Licenses Issued in FY 1997	288
Inspections, Audits, Spot Checks at Permitted Facilities	595
Injunctions Obtained	0
Show Cause, Remedial, Corrective Action Orders Issued	0
Stop Work Orders	0
Administrative or Civil Penalties Obtained	\$150
Criminal Actions Charged	0
Convictions Obtained	0
Imprisonment Time Ordered	0
Criminal Fines Received	0
Other Enforcement	21

As a result of enforcement activities, \$150 was deposited into the Sewage Sludge Utilization Fund.

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Measures of Success--Site/Facility Maintenance Program Sewage Sludge Utilization	
Number of Sites/Facilities	936
Number of Inspections	618
Number of Sites/Facilities Inspected	180
Percent of Sites/Facilities in Significant Compliance	90%
Percent of Sites/Facilities with Significant Violations	10%
Number of Violations which Resulted in Environmental/Health Impact	0
Number of Violations Which were Technical/Preventive in Nature	19
Number of Inspected Sites/Facilities with Significant Violations	18
Number of Significant Violations Resolved	17
Number of Significant Violations On-Going	2
Number of Enforcement Actions Taken	21
Number of Compliance Assistance Rendered	0

WOOD WASTE (NATURAL) RECYCLING

PURPOSE

These permits are required for operation of facilities that recycle natural wood waste (stumps, root mat, branches, logs, and brush) by chipping the wastes and converting them into mulch. The purpose of the permits is to ensure that natural wood wastes are managed in a manner that does not endanger public health or the environment. The permit requirements are designed primarily to prevent the occurrence of fires from these operations.

AUTHORITY

STATE: Environment Article, Title 9, Subtitle 17; COMAR 26.04

INSPECTION PROCESS

Routine inspections are performed at permitted facilities, usually about once per month, although the inspection frequency may vary depending upon assigned complaint workload, presence of problems at a particular facility, and other factors. If a significant violation is found, the inspector may issue a site complaint. Uncorrected violations, or a significant violation having the potential for environmental impact, may result in issuance of an administrative penalty and/or corrective order. Injunctive relief may be sought for serious problems which have a high potential to endanger public health or the environment. Inspectors also investigate citizen complaints.

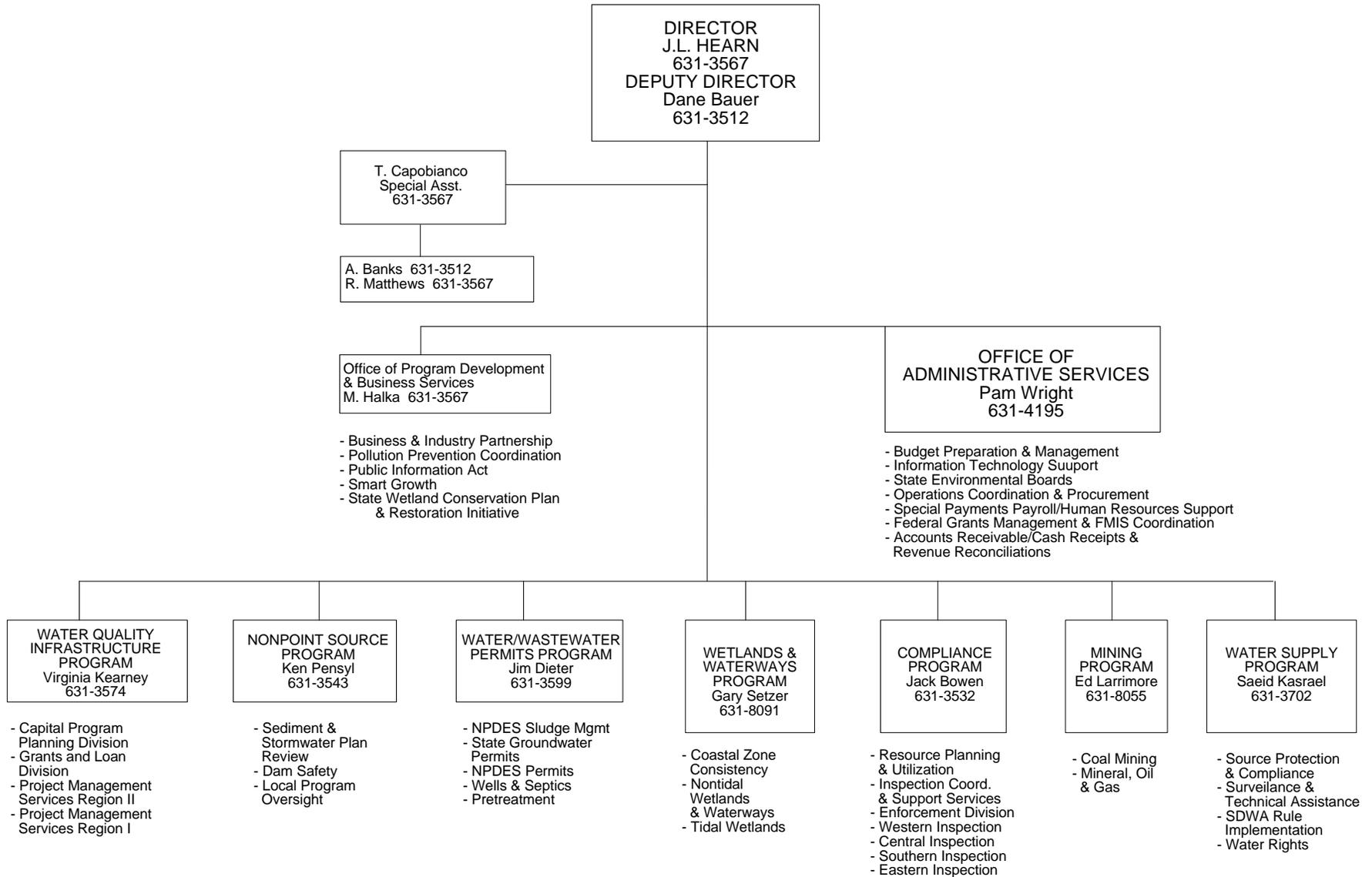
1997 Annual Enforcement Report

Measures of Success--Site/Facility Maintenance Program Natural Wood Waste Recycling	
Number of Sites/Facilities	26*
Number of Inspections	95
Number of Sites/Facilities Inspected	26
Percent of Sites/Facilities in Compliance	88%
Percent of Sites/Facilities with Significant Violations	12%
Number of Violations Which Resulted in Environmental/Health Impact	2
Number of Violations Which were Technical/Preventive in Nature	1
Number of Inspected Sites/Facilities with Significant Violations	3
Number of Significant Violations Resolved	2
Number of Significant Violations On-Going	1
Number of Enforcement Actions Taken	5
Number of Compliance Assistance Rendered	1

* These are facilities that receive wood waste materials (stumps, tree limbs, etc.) for the purposes of processing and recycling into usable products such as mulch.

**WATER MANAGEMENT
ADMINISTRATION**

WATER MANAGEMENT ADMINISTRATION



DISCHARGES- GROUNDWATER (MUNICIPAL AND INDUSTRIAL)

PURPOSE

Groundwater Discharge Permits control the disposal of treated municipal or industrial wastewater into the State's groundwater via spray irrigation or other land-treatment applications. A groundwater discharge permit will contain the limitations and requirements deemed necessary to protect public health and minimize groundwater pollution.

AUTHORITY

STATE: Environment Article, Title 9, Subtitle 3; COMAR 26.08

INSPECTION PROCESS

Upon issuance of a permit the file is transferred to the Compliance Program where an inspection priority, such as; quarterly, annually, etc, is assigned. Inspections are scheduled adhering to the assigned priority as much as workload allows. If samples are needed to document site conditions they are taken and turned into a lab for analysis. Discharge Permits require self-monitoring sampling of the discharge by the facility and results filed quarterly with the Department in Discharge Monitoring Reports (DMR). DMR review is not counted as a separate activity, rather it is part of the inspector's preparations for making facility inspections and the Enforcement Division's determination of warranted enforcement actions. Enforcement actions may be based on the DMRs, on inspection findings, or on both.

Maryland Department of the Environment

Information presented in the Senate Bill chart below is for the State Discharge Permit Programs for Groundwater (previous page) and for the State and NPDES Programs for Surfacewater (page 66).

SB 324 -- NPDES and State Discharge Permit Programs (Groundwater and Surfacewater) Title 9, Subtitle 3	
Permits/Licenses in Effect at the Close of FY 1997	2,460
Permits/Licenses Issued in FY 1997	259
Inspections, Audits, Spot Checks at Permitted Facilities	2,682
Injunctions Obtained	3
Show Cause, Remedial, and Corrective Action Orders Issued	54
Stop Work Orders	0
Administrative or Civil Penalties Obtained	\$461,309
Criminal Actions Charged	0
Convictions Obtained	0
Imprisonment Time Ordered	0
Criminal Fines Received	0
Other Enforcement	3

Please note, \$461,309 was deposited into the MD Clean Water Fund as a result of enforcement actions.

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Measures of Success--Facilities with Permitted Discharges/Emissions Groundwater Discharges	
Number of Permitted Sites/Facilities	221
Number of Inspections	107
Number of Sites/Facilities Inspected	56
Percent of Sites/Facilities in Significant Compliance	96%
Percent of Sites/Facilities with Significant Violations	4%
Number of Significant Violations	2
Number of Inspected Sites/Facilities with Significant Violations	2
Number of Significant Violations Resolved	2
Number of Significant Violations On-Going	0
Number of Enforcement Actions Taken	2
Number of Compliance Assistance Rendered	0

DISCHARGES - SURFACEWATER (MUNICIPAL and INDUSTRIAL)

PURPOSE

The surface water discharge permit combines the requirements of the State discharge permit program and the National Pollutant Discharge Elimination System (NPDES) into one permit for municipal wastewater treatment facilities that discharge to State surface waters. The permit is designated to maintain water quality standards in the water receiving the discharge.

Anyone who discharges wastewater to surface waters needs a surface water discharge permit. Applicants include municipalities, counties, schools and commercial sewage treatment plants, as well as treatment systems for private residences that use surface discharge techniques. All industrial, commercial or institutional facilities that discharge wastewater (or storm water from certain facilities) directly to surface waters of Maryland need this permit. Alternatively, a discharge to the municipal wastewater system will only require a pretreatment permit.

Industrial Stormwater Discharge permits for construction activities are tracked and documented under the Erosion and Sediment Control Program. General discharge permit coverage is required for construction activities which involve five acres or greater of disturbance.

AUTHORITY

FEDERAL: Clean Water Act

STATE: Environment Article, Title 9, Subtitle 3; COMAR 26.08

INSPECTION PROCESS

Upon issuance of a permit the file is transferred to the Compliance Program where an inspection priority, such as; quarterly, annually, etc, is assigned. Inspections are scheduled adhering to the assigned priority as much as workload allows. If samples are needed to document site conditions they are taken and turned into a lab for analysis. Discharge Permits require self-monitoring sampling of the discharge by the facility and results filed quarterly with the Department in Discharge Monitoring Reports (DMR). DMR review is not counted as a separate activity, rather it is part of the inspector's preparations for making facility inspections and the Enforcement Division's determination of warranted enforcement actions. Enforcement actions may be based on the DMRs, on inspection findings, or on both.

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Measures of Success--Facilities with Permitted Discharges/Emissions State & NPDES Permits	
Number of Permitted Sites/Facilities	2,239*
Number of Inspections	2,575
Number of Sites/Facilities Inspected	482**
Percent of Sites/Facilities in Significant Compliance	87%
Percent of Sites/Facilities with Significant Violations	13%
Number of Significant Violations	64
Number of Inspected Sites/Facilities with Significant Violations	64
Number of Significant Violations Resolved	18
Number of Significant Violations On-Going	46
Number of Enforcement Actions Taken	55
Number of Compliance Assistance Rendered	224

* 341 permits are for sewage plants, 371 are for industrial discharges and 1,527 are for registrations under the Industrial Stormwater, Mineral Mines, Tank/Pipe Dewatering, Coal Mine, Seafood Processor, Marinas and Concentrated Animal Feedlot Operation general permits.

** Priority of inspection is given to the 712 facilities with individual permits (341 sewage plants and 371 industrial discharges).

DISCHARGES -- PRETREATMENT (INDUSTRIAL)

PURPOSE

As part of its responsibility for enforcing federal and state laws and regulations pertaining to the discharge of wastes, MDE is responsible for controlling wastes from industrial and other non-domestic sources discharged into publicly-owned treatment works (POTW). In accordance with its authority as delegated by EPA, MDE has delegated responsibility for implementation of a pretreatment program to 17 local pretreatment programs. Local pretreatment program responsibilities include issuing discharge permits to industrial users, conducting industrial inspections and performing compliance monitoring, developing and enforcing local limits, enforcing federal pretreatment standards and assessing penalties against industrial users. These requirements are included in a delegation agreement which is signed by the POTW and MDE and then incorporated by reference into the POTW's NPDES permit issued by MDE. Given the fact that the bulk of the responsibility for this program is delegated to POTWs, the enforcement actions and penalties that are pursued and collected in this program are by local government and would not be reflected in MDE's enforcement statistics.

AUTHORITY

FEDERAL: Clean Water Act

STATE: Environment Article, Title 9, Subtitle 3; COMAR 26.08

INSPECTION PROCESS

MDE oversees local pretreatment program implementation by conducting pretreatment compliance inspections, audits of pretreatment programs, joint review of industrial user permits, independent and joint industrial inspections with the POTW, reviewing monitoring reports from POTW's, and initiating enforcement actions when the POTW fails to act in accordance with its delegated responsibilities.

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SB 324 -- Discharges - Pretreatment (Industrial) Title 9, Subtitle 3	
Permits/Licenses in Effect at the Close of FY 1997	2*
Permits/Licenses Issued in FY 1997	2
Inspections, Audits, Spot Checks at Permitted Facilities	29**
Injunctions Obtained	0
Show Cause, Remedial, and Corrective Action Orders Issued	0
Stop Work Orders	0
Administrative or Civil Penalties Obtained	0
Criminal Actions Charged	0
Convictions Obtained	0
Imprisonment Time Ordered	0
Criminal Fines Received	0
Other Enforcement	0***

* 2 permits in effect at the end of FY 1997. No significant violations found during inspections, therefore the compliance rate is 100% for this program, and for this reason no table for Measures of Success is provided.

** Inspections, audits, spot checks, include: 15 inspections of facilities including: 2 MDE permitted industrial users; 10 industrial users permitted by local publicly owned treatment works; 3 pretreatment compliance inspections of delegated publicly owned treatment works; and 14 audits of delegated pretreatment programs administered by publicly owned treatment works.

*** With the exception of the two permits issued by MDE, actions are initiated by the delegated publicly owned treatment works.

EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION ACTIVITY

PURPOSE

Any construction activity in Maryland that disturbs 5,000 square feet or more of land or results in 100 cubic yards or more of earth movement, must have approved erosion and sediment control and stormwater management plans before construction begins. Additionally, for any construction activity that disturbs five or more acres, coverage must be obtained under the Department's general discharge permit for construction activity. The purpose of this permit is to prevent water pollution and streambank erosion caused by excess erosion, siltation, and stormwater flows from construction sites.

AUTHORITY

FEDERAL: Clean Water Act, Section 402

STATE: Environment Article, Title 4, Subtitle 1; COMAR 26.17

INSPECTION PROCESS

In 13 counties and 10 municipalities, inspection and enforcement authority has been delegated by the state. State inspections occur at all construction projects in the 10 non-delegated counties and at state and federal projects throughout Maryland. This report does not reflect the erosion and sediment control inspection and enforcement activities conducted by local governments in delegated jurisdictions.

Upon issuance of a permit or authorization the file is transferred to the Compliance Program where an inspection priority, such as; weekly, monthly, quarterly, annually, etc, is assigned. The inspectors then schedule routine inspections of the facilities adhering to the assigned priority as much as workload allows. At any time during the process, the inspection frequency can be adjusted as site conditions or workload demands.

1997 Annual Enforcement Report

Measures of Success -- Site/Facility Maintenance Program Erosion and Sediment Control	
Number of Sites/Facilities	6,182
Number of Inspections	5,385*
Number of Sites/Facilities Inspected	1,296
Percent of Sites/Facilities in Significant Compliance	98%
Percent of Sites/Facilities with Significant Violations	2%
Number of Violations Which Resulted in Environmental/Health Impact	27
Number of Violations Which were Technical/Preventive in Nature	4
Number of Inspected Sites/Facilities with Significant Violations	30
Number of Significant Violations Resolved	25
Number of Significant Violations On-Going	6
Number of Enforcement Actions Taken	24
Number of Compliance Assistance Rendered	1,764

* Regarding the method of reporting the numbers, state and federally-funded projects are reviewed for sediment control and stormwater management under a stormwater management permit designation. Because there is only one permit for both activities, the number of inspections is reported under the stormwater management media. Since the intention is not to double count inspections, only one media is credited with an inspection, even though both media are inspected.

MINING - COAL

PURPOSE

To minimize the effects of coal mining on the environment, provide proper land reclamation, and ensure public safety, a permit is required. All coal mining activity occurs in Allegany and Garrett Counties. Permits are required for surface coal mining, deep coal mining, prospecting, preparation plants, loading facilities, and refuse reclamation operations.

AUTHORITY

FEDERAL: Surface Mining Control and Reclamation Act of 1977

STATE: Environment Article, Title 15, Subtitle 5; COMAR 26.20

INSPECTION PROCESS

Upon issuance of a permit/license/authorization the file is transferred to the Compliance Program where an inspection priority is assigned. By agreement with the federal Office of Surface Mining, MDE has committed to inspect each permitted facility on a monthly basis. The inspectors then schedule routine inspections of the facilities adhering to the assigned priority as much as workload allows. At any time during the process, the inspection frequency can be adjusted as site conditions or workload demands.

1997 Annual Enforcement Report

Measures of Success -- Site/Facility Maintenance Program Mining - Coal	
Number of Sites/Facilities	78
Number of Inspections	872
Number of Sites/Facilities Inspected	88*
Percent of Sites/Facilities in Significant Compliance	93%
Percent of Sites/Facilities with Significant Violations	7%
Number of Violations Which Resulted in Environmental/Health Impact	3
Number of Violations Which were Technical/Preventive in Nature	3
Number of Inspected Sites/Facilities with Significant Violations	6
Number of Significant Violations Resolved	6
Number of Significant Violations On-Going	0
Number of Enforcement Actions Taken	11
Number of Compliance Assistance Rendered	9

* Please note the reason for the number of sites inspected exceeding the number of sites/facilities is because during FY 1997 a total of ten sites were closed out.

MINING - NON-COAL

PURPOSE

To minimize the effects of mining on the environment, provide proper land reclamation, and ensure public safety, a permit is required to conduct surface mining. The review of a non-coal surface mine permit application includes a technical review of the plans and written submissions, a site visit, comments from other interested agencies and the opportunity for a public hearing. A performance bond of \$1,250 per acre is required.

AUTHORITY

STATE: Environment Article - Title 15, Subtitle 8; COMAR 26.21

INSPECTION PROCESS

Upon issuance of a permit/license/authorization the file is transferred to the Compliance Program where an inspection priority, such as; weekly, monthly, quarterly, annually, etc, is assigned. The inspectors then schedule routine inspections of the facilities adhering to the assigned priority as much as workload allows. At any time during the process, the inspection frequency can be adjusted as site conditions or workload demands.

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Measures of Success -- Site/Facility Maintenance Program Mining -- Non-Coal	
Number of Sites/Facilities	370
Number of Inspections	442
Number of Sites/Facilities Inspected	146
Percent of Sites/Facilities in Significant Compliance	99%
Percent of Sites/Facilities with Significant Violations	1%
Number of Violations Which Resulted in Environmental/Health Impact	2
Number of Violations Which were Technical/Preventive in Nature	0
Number of Inspected Sites/Facilities with Significant Violations	2
Number of Significant Violations Resolved	2
Number of Significant Violations On-Going	0
Number of Enforcement Actions Taken	2
Number of Compliance Assistance Rendered	27

OIL AND GAS EXPLORATION AND PRODUCTION

PURPOSE

The drilling and operation of a gas or oil well requires a permit. Permits are also required for seismic operations. The review of a gas/oil drilling and operating permit application includes a technical review of the plans and written submissions, a site visit, comments from other interested agencies and the opportunity for a public hearing. A bond of up to \$100,000 is required prior to the issuance of a permit.

AUTHORITY

STATE: Environment Article - Title 14, Subtitle 1, 2 and 3; COMAR 26.19.01 and 26.19.02.

INSPECTION PROCESS

Upon issuance of a permit/license/authorization the file is transferred to the Compliance Program where an inspection priority, such as; weekly, monthly, quarterly, annually, etc, is assigned. The inspectors then schedule routine inspections of the facilities adhering to the assigned priority as much as workload allows. At any time during the process, the inspection frequency can be adjusted as site conditions or workload demands.

1997 Annual Enforcement Report

Measures of Success -- Site/Facility Maintenance Program Oil and Gas Exploration and Production	
Number of Sites/Facilities	52
Number of Inspections	47
Number of Sites/Facilities Inspected	42
Percent of Sites/Facilities in Significant Compliance	100%*
Percent of Sites/Facilities with Significant Violations	0%
Number of Violations Which Resulted in Environmental/Health Impact	0
Number of Violations Which were Technical/Preventive in Nature	0
Number of Inspected Sites/Facilities with Significant Violations	0
Number of Significant Violations Resolved	0
Number of Significant Violations On-Going	0
Number of Enforcement Actions Taken	0
Number of Compliance Assistance Rendered	0

* Permitting and inspection activities increased in this media, with the increase in activity occurring in the Western Region of the state. The inspection of these facilities, which are principally storage facilities, did not reveal any serious problems with the facilities.

PUBLIC DRINKING WATER

PURPOSE:

The Public Drinking Water Program ensures that the public drinking water systems provide adequate quality and quantity of water to their users. This is accomplished by a combination of State and federal drinking water regulations enforcement, source protection activities, inspections and technical assistance. MDE directly regulates community water systems that include municipalities, small private water systems and mobile home parks, and non-transient water systems that include businesses, schools and day care centers that have their own water supply system. Transient systems such as gas stations, camp grounds and restaurants are regulated by the local environmental health departments. In addition to the various inspection and compliance measures listed below, 150 laboratory certifications are performed annually by the Department of Health and Mental Hygiene under contract with MDE.

AUTHORITY:

FEDERAL: Safe Drinking Water Act, 40 CFR 141, 142, and 143

STATE: Environment Article, Title 9, Subtitle 2, Subtitle 4, and Subtitle 5; COMAR 26.04

INSPECTION PROCESS:

A sanitary survey is a comprehensive on-site assessment of all water system components which include the water source, treatment unit processes, equipment, operations and maintenance of a public water supply system. It is conducted for the purpose of determining the adequacy and reliability of the water system to provide safe drinking water to its customers. The sanitary survey can be used to follow up known or suspected problems or on a routine basis to assess the water system's viability and prevent future problems from occurring. In the Drinking Water Program emphasis is placed on preventative measures instead of reactive enforcement actions in order to avert serious public health incidents. The vast majority of drinking water violations are corrected immediately or following issuances of Notice of Violation public notices.

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SB 324 -- Public Drinking Water Title 9, Subtitle 4	
Permits/Licenses in Effect at the Close of FY 1997	3,775*
Permits/Licenses Issued in FY 1997	1274**
Inspections and Audits at Permitted Facilities	541***
Injunctions Obtained	0
Show Cause, Remedial, and Corrective Action Orders Issued	1
Stop Work Orders	N/A
Administrative or Civil Penalties Obtained	0****
Criminal Actions Charged	0
Convictions Obtained	0
Imprisonment Time Ordered	0
Criminal Fines Received	0
Other Enforcement	839*****

* Includes 1,675 certified water operators and approximately 2,100 certified water samplers.

** Includes 505 water treatment operators and 769 persons certified as water samplers.

*** In addition to inspections, actions to prevent public water system contamination or respond to a Safe Drinking Water Act emergency included: performing 5 comprehensive performance evaluations, developing 9 well-head protection plans, responding to 9 water supply emergencies, and holding 5 training sessions for local departments. Compliance assistance is given for implementing suggested changes in treatment or preventive recommendations for source protection, or evaluation of water quality data.

**** MDE does not currently have administrative penalty authority for drinking water violations.

***** 827 Notices of violations and 12 boil water advisories (includes public notices to water users advising that standards have been violated). The EPA definition of the term "significant violation" is used here.

Maryland Department of the Environment

Measures of Success -- Site/Facility Maintenance Program Public Drinking Water	
Number of Sites/Facilities	1004*
Number of Inspections	541
Number of Sites/Facilities Inspected	491
Percent of Sites/Facilities in Significant Compliance	76%**
Percent of Sites/Facilities with Significant Violations	24%**
Number of Violations Which Resulted in Environmental/Health Impact	20***
Number of Violations Which were Technical/Preventive in Nature	222****
Number of Inspected Sites/Facilities with Significant Violations	118
Number of Significant Violations Resolved	205
Number of Significant Violations On-Going	17
Number of Enforcement Actions Taken	840*****
Number of Compliance Assistance Rendered	350

* Includes 505 community water systems and 499 non-transient non-community water systems. In addition, 2569 transient water systems are regulated by local health departments.

** The percentage of water systems which are currently in compliance as of June 30, 1997 is 96.8% which reflects the number of facilities for which violations have been resolved. The population represented by 24.1% noncompliant systems is approximately 100,000 (2.3%); the population served by water systems meeting all the standards was 4,171,000 (97.7%).

*** 12 boil water advisories, 6 nitrate violations, and 2 volatile organic compound (VOC) violations.

**** 170 of the 222 significant violations were for new lead and copper regulations which require one time modification in treatment .

***** Includes 827 notices of violation, 1 corrective order, and 12 boil water advisories.

STORMWATER MANAGEMENT

PURPOSE

The goal and purpose of the Maryland's stormwater management program is to reduce stream channel erosion, pollution, siltation, and local flooding caused by land use changes associated with urbanization. This is accomplished by maintaining after development, the pre-development runoff conditions through the use of various stormwater management measures.

The purpose of the federal National Pollutant Discharge Elimination System (NPDES) stormwater program is to control pollution generated from runoff associated with industrial activity and municipal separate storm sewer systems. Eleven categories of industry and certain sized local governments are required by the Clean Water Act and the U.S. Environmental Protection Agency (EPA) to be permitted under the NPDES stormwater program.

AUTHORITY

FEDERAL: Clean Water Act, Section 402; 40 CFR

STATE: Environment Article, Title 4, Subtitle 1 and Subtitle 2; COMAR 26.17

INSPECTION PROCESS

Upon issuance of a permit or authorization the file is transferred to the Compliance Program where an inspection priority, such as; weekly, monthly, quarterly, annually, etc, is assigned. The inspectors then schedule routine inspections of the facilities adhering to the assigned priority as much as workload allows. At any time during the process, the inspection frequency can be adjusted as site conditions or workload demands. If samples are needed to document site conditions they are taken and turned into a lab for analysis.

Maryland Department of the Environment

Measures of Success -- Site/Facility Maintenance Program Stormwater Management	
Number of Sites/Facilities	886*
Number of Inspections	1,270**
Number of Sites/Facilities Inspected	345
Percent of Sites/Facilities in Significant Compliance	99%
Percent of Sites/Facilities with Significant Violations	1%
Number of Violations Which Resulted in Environmental/Health Impact	1***
Number of Violations Which were Technical/Preventive in Nature	2***
Number of Inspected Sites/Facilities with Significant Violations	3
Number of Significant Violations Resolved	3
Number of Significant Violations On-Going	0
Number of Enforcement Actions Taken	2***
Number of Compliance Assistance Rendered	0

* This media consists of permits for all state and federally funded construction projects and entails a review for stormwater management and sediment and erosion control compliance. This permit does not include municipal stormwater management projects since those are regulated by the local jurisdictions.

** The primary emphasis of inspections has been on sediment control, therefore, in reality these inspection numbers may be more reflective of sediment control inspections rather than stormwater management inspections.

*** The significant violations and enforcement actions taken reflect sediment control problems.

WATER SUPPLY AND SEWERAGE CONSTRUCTION

PURPOSE

The purpose of water and sewerage construction permits is to ensure that infrastructure projects throughout the State are designed on sound engineering principles and comply with State design guidelines to protect water quality and public health. Water and sewerage construction permits are required before installing, extending or modifying community water supply and/or sewerage systems including treatment plants, pumping stations and major water mains and sanitary sewers. These permits ensure conformity with local comprehensive water and sewerage plans and provide adequate funding for long-term operation.

AUTHORITY

STATE: Environment Article, Title 9, Subtitle 2, COMAR 26.03

PROCESS

Pre-approval: Applicants must show that the proposed water and/or sewerage facilities are included in the current county water and sewerage plans, and certify that the proposed water and/or sewerage facilities will be operated either publicly or privately under a financial management plan. Post-approval: The project must be constructed in accordance with the approved plans and specifications which emphasize the design of the treatment plant, pumping station or conveyance piping system to effectively carry or treat the water or wastewater. Staff engineers perform inspections in this media to verify the facility is constructed to the approved design. Other approvals associated with the construction (i.e. sediment control, wetlands, etc.) are inspected under those media and inspectors. After construction of water and/or sewerage facilities the facility become operational under an approved NPDES permit.

Maryland Department of the Environment

SB 324 -- Water Supply and Sewerage Construction Title 9, Subtitle 2	
Permits/Licenses in Effect at the Close of FY 1997	1823
Permits/Licenses Issued in FY 1997	181
Inspections, Audits, Spot Checks at Permitted Facilities	520
Injunctions Obtained	N/A*
Show Cause, Remedial, and Corrective Action Orders Issued	N/A
Stop Work Orders	N/A
Administrative or Civil Penalties Obtained	N/A
Criminal Actions Charged	N/A
Convictions Obtained	N/A
Imprisonment Time Ordered	N/A
Criminal Fines Received	N/A
Other Enforcement	0

* This program does not have direct legal authority to pursue traditional enforcement actions for the violation of construction permits issued by it. It requires the return of grant proceeds and MDE may indirectly use its general water pollution authority if a constructed facility violates the law.

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Measures of Success -- Site/Facility Maintenance Program Water Supply and Sewerage Construction	
Number of Sites/Facilities	1,182
Number of Inspections	520
Number of Sites/Facilities Inspected	90
Percent of Sites/Facilities in Significant Compliance	100%*
Percent of Sites/Facilities with Significant Violations	0%
Number of Violations Which Resulted in Environmental/Health Impact	0
Number of Violations Which were Technical/Preventive in Nature	0
Number of Inspected Sites/Facilities with Significant Violations	0
Number of Significant Violations Resolved	0
Number of Significant Violations On-Going	0
Number of Enforcement Actions Taken	0
Number of Compliance Assistance Rendered	181

* The nature of this type permit is to review facility designs to ensure that effluent discharge limits will be met. Noncompliance with treatment design, i.e., constructing something other than what has been approved, would be discovered by the permittee's construction inspector. In a situation where a deviation from the approved design had occurred and was not found in the permittee's inspections, the facility would not meet its effluent standards and violations of the facility's discharge permit would occur. These violations would be included in the discharge permit Measures of Success.

WATERWAY CONSTRUCTION DAM SAFETY

PURPOSE

The Maryland Dam Safety Division issues waterway construction permits for new dams and ponds, and permits for alterations to existing impoundment structures. The major goal of this program is to ensure that dams are built and operated properly and to protect public safety.

AUTHORITY

STATE: Environment Article, Title 5, Subtitle 5; COMAR 26.17

INSPECTION PROCESS

Upon issuance of a permit, a copy of the file is transferred to the Compliance Program. Construction inspections and subsequent safety inspections are made by the permit division engineers. The Compliance Program may inspect the site to determine whether construction has commenced, to perform a sediment control inspection, at the request of the permitting division, or in response to a citizen complaint.

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Measures of Success -- Site/Facility Maintenance Program Waterway Construction -- Dam Safety	
Number of Sites/Facilities	396
Number of Inspections	217
Number of Sites/Facilities Inspected	175
Percent of Sites/Facilities in Significant Compliance	99%
Percent of Sites/Facilities with Significant Violations	1%
Number of Violations Which Resulted in Environmental/Health Impact	0
Number of Violations Which were Technical/Preventive in Nature	1
Number of Inspected Sites/Facilities with Significant Violations	1
Number of Significant Violations Resolved	0
Number of Significant Violations On-Going	1
Number of Enforcement Actions Taken	1
Number of Compliance Assistance Rendered	0*

* Provide guidance and assistance to engineers, permittees, contractors, etc., but does not meet the definition of *compliance assistance* in this report.

WETLANDS AND WATERWAYS NONTIDAL and FLOODPLAIN

PURPOSE

A person is required to obtain a permit from MDE in order to change the course, current, or cross-section of a nontidal stream or body of water, including the 100-year floodplain. Any individual or entity planning to construct, reconstruct, repair or maintain any development within the a stream or its 100 year floodplain is required to get a permit. Proposals are evaluated for impacts on the floodplain, public safety and welfare, and the natural resources of the State of Maryland. The goal of the Nontidal Wetlands Protection Act is to attain no net loss in nontidal wetland acreage and to strive for a net resource gain in nontidal wetlands over present conditions. This is to be accomplished by preventing, further degradation and losses of nontidal wetlands due to human activity; and by offsetting unavoidable losses or degradations through the deliberate restoration or creation of nontidal wetlands through the Nontidal Wetlands Compensation Fund. Anyone planning the following work in a nontidal wetland must obtain a permit or letter of authorization for grading or filling, excavating or dredging, changing existing drainage patterns, disturbing the water level or water table, or destroying or removing vegetation.

AUTHORITY

STATE: Environment Article, Title 5, Subtitle 5 and Subtitle 9; COMAR 26.17 and 26.23

INSPECTION PROCESS

Upon issuance of a permit/license/authorization the file is transferred to the Compliance Program where an inspection priority, such as; weekly, monthly, quarterly, annually, etc, is assigned. The inspectors then schedule routine inspections of the facilities adhering to the assigned priority as much as workload allows. At any time during the process, the inspection frequency can be adjusted as site conditions or workload demands.

Inspections are performed in to verify that the projects are in accordance with the authorization. Because a site may involve nontidal wetland and/or 100-year floodplain impacts, inspections evaluate whether all the resultant construction impacts are in accordance with the permits. Case by case, this may involve identifying or verifying a nontidal wetland boundary and documenting your findings. At sites where there may be 100-year floodplain impacts, it may be necessary to determine the floodplain boundary before project compliance can be determined. Emphasis has been placed on inspection in this program to verify that projects are in compliance with permits and that non-tidal wetland are protected.

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SB 324 -- Wetlands -- Nontidal Title 5, Subtitle 9	
Permits/Licenses in Effect at the Close of FY 1997	3,505
Permits/Licenses Issued in FY 1997	867
Inspections, Audits, Spot Checks at Permitted Facilities	4,430
Injunctions Obtained	0
Show Cause, Remedial, and Corrective Action Orders Issued	29
Stop Work Orders	22
Administrative or Civil Penalties Obtained	0*
Criminal Actions Charged	1
Convictions Obtained	0
Imprisonment Time Ordered	0
Criminal Fines Received	0
Other Enforcement	0

* Please note, no money was deposited into the Nontidal Wetlands Compensation Fund as a result of enforcement actions. Currently the Environment Article does not provide for administrative penalties.

Measures of Success -- Site/Facility Maintenance Program Wetlands and Waterways Nontidal and Floodplain	
Number of Sites/Facilities	3,505
Number of Inspections	4,430*
Number of Sites/Facilities Inspected	1,560
Percent of Sites/Facilities in Significant Compliance	98%
Percent of Sites/Facilities with Significant Violations	2%
Number of Violations Which Resulted in Environmental/Health Impact	15
Number of Violations Which were Technical/Preventive in Nature	14
Number of Inspected Sites/Facilities with Significant Violations	29
Number of Significant Violations Resolved	17
Number of Significant Violations On-Going	12
Number of Enforcement Actions Taken	51
Number of Compliance Assistance Rendered	240

* Nontidal wetlands permits may also authorize waterway construction and floodplain approvals for which one inspection is counted for each site visit.

WETLANDS - TIDAL

PURPOSE

Tidal wetlands are open waters and estuarine systems affected by the rise and fall of the tide for which permits and licenses are required to minimize impacts to aquatic resources and wetlands from the construction of bulkheads, dredging, filling and related activities.

AUTHORITY

STATE: Environmental Article Title 16; Subtitle 2; COMAR 26.24

INSPECTION PROCESS

Upon issuance of a permit/license/authorization the file is transferred to the Compliance Program where an inspection priority, such as; weekly, monthly, quarterly, annually, etc, is assigned. The inspectors then schedule routine inspections of the facilities adhering to the assigned priority as much as workload allows. At any time during the process, the inspection frequency can be adjusted as site conditions or workload demands.

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SB 324 -- Wetlands - Tidal Title 16, Subtitle 2	
Permits/Licenses in Effect at the Close of FY 1997	2130
Permits/Licenses Issued in FY 1997	946*
Inspections, Audits, Spot Checks at Permitted Facilities	1,189**
Injunctions Obtained	0
Show Cause, Remedial, and Corrective Action Orders Issued	2
Stop Work Orders	5
Administrative or Civil Penalties Obtained	0
Criminal Actions Charged	0
Convictions Obtained	0
Imprisonment Time Ordered	0
Criminal Fines Received	0
Other Enforcement	0

* Does not include 856 authorizations. Authorizations are minor alterations, for example, small pier construction, mooring pilings and replacement boards in bulkheads.

** Inspections are targeted to permits and licenses.

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Measures of Success -- Site/Facility Maintenance Program Wetlands - Tidal	
Number of Sites/Facilities	2,130*
Number of Inspections	1,189
Number of Sites/Facilities Inspected	395**
Percent of Sites/Facilities in Significant Compliance	98%
Percent of Sites/Facilities with Significant Violations	2%
Number of Violations Which Resulted in Environmental/Health Impact	5
Number of Violations Which were Technical/Preventive in Nature	2
Number of Inspected Sites/Facilities with Significant Violations	7
Number of Significant Violations Resolved	5
Number of Significant Violations On-Going	2
Number of Enforcement Actions Taken	7
Number of Compliance Assistance Rendered	40

* Reflects the number of projects which remain active. Projects are closed out and no longer counted when completed and verified in compliance by inspection.

** Includes multiple inspections at high impact sites or locations where other permits are active.

**OFFICE OF THE ATTORNEY
GENERAL
ENVIRONMENTAL CRIMES
UNIT**

ENVIRONMENTAL CRIMES UNIT

PURPOSE

The Environmental Crimes Unit (ECU) is a criminal investigation and prosecution team which functions independently of the Maryland Department of the Environment (MDE) under the direction of the Criminal Investigations Division of the Attorney General's Office. The Unit combines the prosecutorial authority of the Attorney General's Office, with the investigative and law enforcement capabilities of the Maryland State Police, and the regulatory expertise of MDE. The Unit investigates violations of the criminal provisions of the Environment Article and when appropriate files charges and prosecutes offenders. Typically, criminal actions are resorted to as a last recourse for the worst and most recalcitrant offenders.

AUTHORITY

STATE: Environment Article, Title 2, Subtitle 6; Title 4, Subtitle 5; Title 5, Subtitle 11 and 13; Title 7, Subtitle 2; Title 8, Subtitle 5; Title 9, Subtitle 3 and 13; Title 13, Subtitle 4; Title 15, Subtitle 5; Constitution of Maryland Article V Section 3.

PROCESS

The ECU receives referrals for investigation from many different sources including MDE. After the initial referral is screened, it is assigned to an investigator (usually a specially assigned state trooper) who conducts a preliminary inquiry. The results of the preliminary inquiry are given to a prosecutor who decides whether to file charges. All prosecutorial decisions are made by the Attorney General's Office.

Maryland Department of the Environment

Chart 1 tracks the number of referrals processed by ECU. This chart reflects ECU's investigative activity. All referrals do not result in criminal counts.

OFFICE OF THE ATTORNEY GENERAL ENVIRONMENTAL CRIMES UNIT ORIGINATION OF REFERRAL—FY '97	
Air & Radiation Management Administration (ARMA)	3
Technical & Regulatory Services Administration (TARSA)	21
Waste Management Administration (WAS)	25
Water Management Administration (WMA)	27
TOTAL FROM MDE	76
OTHER SOURCES	74
TOTAL	150

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Chart 2 reveals the number of counts, or charges, compared to the number of cases filed. ECU uses "counts" as the primary unit of measure because there are cases in which counts from more than one media, involving more than one administration and fund, are filed against the same criminal defendant. A "criminal count" is synonymous with a "criminal charge." A single criminal case is often composed of several counts or charges. For example, a single water pollution "case" in which ECU charged four separate unpermitted discharge events would be reflected as four "counts" in the document filed to bring the charges.

OFFICE OF THE ATTORNEY GENERAL ENVIRONMENTAL CRIMES UNIT CRIMINAL COUNTS/CASES FILED IN COURT-FY '97		
	No. of Counts Filed	No. of Cases Filed
ARMA	16	
WAS	20	
WMA	4	
TOTAL	40	17

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The numbers represented on **Chart 3** entitled "Case Disposition Statistics" are broken down according to "criminal counts" rather than what is commonly referred to as a "criminal case."

OFFICE OF THE ATTORNEY GENERAL ENVIRONMENTAL CRIMES UNIT FY '97-CASE DISPOSITION STATISTICS							
	NO. OF COUNTS CONCLUDED IN COURT	FINES, RESTITUTION & CLEANUP COSTS		JAIL TIME		PROBA- TION (YEARS)	COMMU- NITY SERV. (HOURS)
		Imposed	To Be Paid	Imposed	To Be Served		
ARMA	0	0	0	0	0	0	0
WAS	7 ^①	13,000 ^②	2,600 ^②	12 mos.	0	6.5	100
WMA	4	3,000	3,000	0	0	1	0
TOTAL	11 ^③	16,000	5,600	12 mos.	0	7.5	100

①Includes 2 counts nolle prossed.

②Includes \$570 restitution to MDE and \$500 cleanup cost.

③Total of 10 cases.

Finally, the numbers on these charts are strictly derived from "fiscal year" activity. A referral captured on FY 1997's Chart 1 may not be filed in court until FY 1998 and captured on that year's Chart 2. That same criminal case may not result in fines and penalties until FY 1999 before being captured on Chart 3. Therefore, all three charts must be considered together in order to understand the full range of ECU's activities during any given fiscal year.

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COMPLIANCE ASSISTANCE

COMPLIANCE ASSISTANCE IS BOTH A VALUABLE CUSTOMER SERVICE and an efficient, effective way to improve environmental safeguards. Senate Bill 324 requested this report to “*include information on the type and number of contacts or consultations with businesses concerning compliance with state environmental laws.*” This section of the report attempts to identify the types of contacts MDE has in general to help businesses come into compliance. The number of contacts are reported in the administration’s Measures of Success statistics. Compliance assistance as applied to MDE's activities is very broad and requires more than one definition. We have traditionally applied the term in two different ways:

- (1) Compliance assistance may be an element of MDE's **enforcement process**. An MDE inspector renders an identifiable act of compliance assistance when he or she:
 - (A) Documents a specific past or current violation which the regulated entity corrects in the absence of a formal enforcement action; or
 - (B) Documents a specific action(s) which the regulated entity has the option of undertaking to prevent the likelihood of potential future violations, and the regulated entity undertakes such action(s) voluntarily, and in such manner and within such time period as deemed acceptable by MDE in the absence of a formal enforcement action.

In either (A) or (B), the MDE inspector must document the manner in which the regulated entity voluntarily achieved compliance. This definition of "compliance assistance" has the advantage of being measurable, and objectively verifiable by a third party.

Programs have strongly emphasized the use of compliance assistance in conjunction with enforcement procedures. The typical assistance provided can range from improved recordkeeping, housekeeping and maintenance, training and inventory control to equipment or technology modifications, process or procedure modifications, reformulation or redesign of products, and substitution of raw materials. The intent is to fix minor violations and to prevent significant violations from occurring, and to promote the reduction of pollution at the source.

- (2) **Compliance assistance also involves MDE's public outreach and assistance activity** which helps the regulated community understand the law and assists the regulated community in complying with the law's requirements. Compliance assistance is both a valuable customer service and an efficient, effective way to improve environmental safeguards. Examples of these activities include:

- (A) **MDE's Environmental Permits Service Center** arranged approximately 20 meetings with new or expanding businesses that needed multiple permits to help them understand how to comply with environmental requirements.
- (B) **Promotion of pollution prevention measures.** "Pollution prevention" means avoiding the creation of pollution at its source, rather than treating, storing, or disposing of it. Whenever possible, MDE encourages permitted facilities to use pollution prevention measures to achieve, or even go beyond, compliance by providing information and referrals to businesses to help them find ways use pollution prevention approaches to comply with environmental requirements. For example, MDE's pollution prevention program is currently working to develop a compliance assistance manual for lithographic printers. It is also participating in a statewide project to help marinas understand and comply with environmental programs. Also, when performing a compliance inspection, the inspectors' laptop computers and printers automatically generate a form in addition to the routine Field Inspection Report. The pollution prevention form, generated during a discharge permit inspection, is an automatic service provided as part of the compliance inspection.
- (C) **Compliance assistance during the permitting process.** This involves MDE providing information on regulatory requirements and pollution prevention to facilities, or whole industries, before they begin construction or expansion, receive MDE permits, or undergo MDE compliance inspections. MDE's permit writers promote pollution prevention as a compliance assistance tool when appropriate during their interactions with permittees. MDE provides regular training for permit writers and others to help them understand how to encourage pollution prevention. Most recently, 30 MDE permit writers attended training in September 1997 on how to promote pollution prevention during the permitting process.
- (D) **MDE's Small Business Assistance Program** which helps small businesses comply with environmental programs. This program holds seminars and workshops, works closely with industry groups, compiles and distributes information packets, and answers businesses' questions. For example, the Small Business Assistance Program held several compliance assistance seminars for dry cleaners to help them understand new air quality requirements. The assistance MDE provided included translating documents into Korean to help the large number of Korean-American dry cleaners. This program helps over a thousand businesses each year.

**FUTURE OF
ENFORCEMENT AND
COMPLIANCE AT MDE**

INFORMATION TECHNOLOGY

INFORMATION TECHNOLOGY PROVIDES a means for MDE to better manage the vast amount of information regarding the thousands of permitted businesses in the state and the enforcement information those businesses generate. For the most part, each of the enforcement programs manage their own databases. In addition, each of the permitting programs also manage databases which are usually separate. Differences in hardware, software and database structure make the sharing of information difficult at best. Although each program may manage their own information, it is difficult to get common information from the different enforcement programs. In the past, legislative or media inquiries on enforcement statistics could literally take hundreds of man-hours to complete.

The development of a Department-wide database will allow us to develop a facility-based perspective for permitting and enforcement, eliminate duplication of effort, allow greater access to important information, and generate the statistical data that management needs to track enforcement activities. Perhaps most importantly, the proposed system will simplify the process of reporting data to the public, increasing MDE's level of accountability.

The proposed Enforcement and Compliance Database project will eventually integrate permitting and enforcement data at the Departmental level. It will place a heavy emphasis on providing management with the information needed to make timely decisions about the effectiveness of different programs and indicate where resources should be committed. One component will also incorporate the statistical data that is contained this annual report.

In Fiscal Year 1997, MDE spent a good deal of time analyzing its enforcement and compliance and permitting databases. MDE projects this effort will take several years to complete, but progress is already being made. To date, we've assessed each database and its elements are on our way to creating a new data dictionary for the combined enforcement database. This effort is included in MDE's Information Technology Master Plan and a request was submitted for funding under the Information Technology Investment Fund.

This initiative will not be an easy undertaking, but the Department is committed to moving forward. The existing structure is complex, labor intensive, and falls short of fulfilling Departmental management needs, the needs of our workforce, and our stakeholders. The development of a new information infrastructure is a vital step toward bringing MDE into the twenty-first century.

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INSPECTOR TRAINING AND OUTREACH

MDE FULLY RECOGNIZES THE MANY contributions of our inspectors to the overall mission of the Department. In order to maintain effective and efficient enforcement and compliance programs, it is necessary to have a highly trained inspection workforce working within a system that is responsive to inspectors' needs and supports open communication among all parties involved. In July 1997, MDE developed an inspector survey that was distributed to all enforcement inspectors in the air, water, and waste programs. From this survey we have begun to identify our strengths and weaknesses, and derive from those strengths and weaknesses our needs in areas such as training, communication and support. The results of this survey are being used to focus attention where it is most needed and wanted by the inspection workforce.

The preliminary survey results showed us that most MDE enforcement inspectors have adequate tools to do their jobs including safety equipment, reference materials, and vehicles. However, there are clear needs in the areas of testing equipment, laptop computers, and communication devices. MDE will be looking at improving training in the areas of evidence gathering and investigation techniques, expert witness techniques, recognition of criminal activities, knowledge of specific statutes, regulations, and policies, and more cross training in other medias. Other interesting points in the survey data show that over 70 percent of our inspectors believe it would be helpful to collectively view air, water and solid waste data for a particular facility. This is yet another confirmation of the need to integrate and share data within the Department.

In late Fall of 1997, MDE will hold its first "Inspector Forum." The forum will be the first in a series of training programs to give inspectors a departmentwide perspective of enforcement activities and an opportunity to exchange information on common issues in their daily jobs. Management also will learn from inspectors what can be done to help make their jobs easier. MDE will be presenting this Annual report to the inspectors to show the results of their work throughout the year, as well as explaining the Measures of Success system and receiving their input on improvements in measures, data collection and other areas of the report. MDE will use the inspector survey results to formulate the curriculum for future forums.

A well-trained workforce is an integral component to the success of any organization. MDE will continue to emphasize and support inspection and enforcement training needs throughout the Department.

ENVIRONMENTAL PERFORMANCE PARTNERSHIP

IN 1995, THE U.S. ENVIRONMENTAL PROTECTION AGENCY SIGNED THE National Environmental Performance Partnership System (NEPPS) agreement. Under this agreement, state and EPA regions negotiate what they will do in the coming year when they agree on a Performance Partnership Agreement (PPA). Under NEPPS states and EPA may negotiate annual agreements that detail state priorities, goals, and performance measures, which help to ensure that states are accountable for meeting their goals. In turn, EPA will provide differential oversight of successful state programs and give states more flexibility in addressing local environmental and public health priorities. More than half the states currently have PPAs, and the number of innovations continues to increase.

MDE has been working with EPA Region III over the last 10 months to negotiate its first Performance Partnership Agreement. As part of that process, MDE has developed the "Maryland Environmental Indicators" report which is a concise characterization or "snapshot" in time, of Maryland's key environmental and public health parameters. This characterization is the first step in a strategic planning process through which MDE and the EPA seek to redefine the federal-state relationship and advance a results-based and performance measurement approach to environmental protection issues.

Stakeholder involvement is critical to our success. MDE, in conjunction with the Department of Natural Resources (DNR), Department of Agriculture (MDA), and EPA have held 11 public information meetings across the state to discuss the more than 40 indicators in the public health or ecosystem health categories. The agencies also have included environmental and public health advocacy groups, citizen groups, elected officials, agency advisory groups, business leaders, educators, scientists, natural resources users, and others in the review.

The next steps in the PPA process are to establish priorities for targeting the State's resources needed to fix problems and develop an annual work plan that spells out what actions the State and EPA will take in order to achieve the desired environmental outcomes. MDE plans to finalize its negotiations with EPA in the Fall of 1997. MDE's budget is comprised of about 30 percent federal funds, a portion of which is designated for inspection and enforcement activities as part of certain delegated authority from the federal government. These federal dollars have tight grant restrictions on how the funds can be used for certain activities. It is MDE's hope that the PPA will provide greater flexibility, improved environmental outcomes, administrative savings, and a strengthened partnership between MDE and EPA.

1997 Annual Enforcement Report

In June 1997, MDE's Compliance and Enforcement Workgroup presented to EPA, Region III much of the process information discussed earlier in this report including measures of success, compliance assistance, the enforcement and compliance process, and publicizing enforcement actions. In July, EPA Region III responded very positively to that presentation, indicating they:

“were impressed by the excellent presentation of MDE's enforcement and compliance process. Equally impressive was the thorough presentation of the measures of success for facilities with permitted discharges and emissions. We were excited and extremely optimistic about the opportunities for use to forge a strengthened state federal partnership.”

EPA has asked to explore further with MDE the areas of significant vs. minor violations, compliance assistance, and penalties. In the coming year, MDE will be working with EPA to develop a clear understanding of our respective regulatory roles and as part of the PPA process, MDE has committed to evaluating and including some enforcement components into our PPA. Currently, EPA has set out some goals they believe are critical to measuring success. Some of these goals are similar to MDE's Measures of Success and some are not. Through these negotiations MDE hopes to develop mutually agreeable measures that will guide us in meeting our environmental goals.

MANAGING MARYLAND FOR RESULTS

MDE IS ALSO PARTICIPATING IN GOVERNOR GLENDENING'S initiative Managing Maryland for Results (MMFR). The statewide implementation of MMFR will provide citizens of Maryland many positive benefits and strengthen our accountability for the State's tax dollar in all areas, not just the federally funded programs (like the PPA does).

MDE's challenge is to integrate and implement both the State and Federal initiatives efficiently, and to shift the primary focus on processes and the current system which relies on numbers of permits issued, inspections made, fines collected, or similar measures, to focus more on quality environmental results and quality processes. Under MMFR, agencies will be required to develop goals, objectives, and operational strategies that link to their missions and budgets and these measures will be reported in the annual operating budget. Compliance and enforcement measures will be an integral part of these measures. Our current Measures of Success and our environmental indicators play an important role in this strategic planning process.

Measures in MMFR include the traditional input measures such as number of facilities, permits, and inspections, as well as the traditional output measures such as number of enforcement actions taken and penalty dollars collected. However, MMFR takes this process much further by developing outcome measures, benchmarks, environmental or administrative indicators, efficiency and quality measures. These measures are all tied to program and agency objectives, and subsequently strategies are developed with action plans and monitoring. These expanded "results" measures attempt to capture and address such areas as population protection, costs of compliance to the state and industry, restoration values, and other important environmental, public health, economic and social information. By using the MMFR model, MDE will be able to complete the picture of our enforcement activities and how they relate and are important to our overall environmental goals.

MD #	COUNTY	SITE NAME	STREET	CITY	STATE	ZIP	ALIASES	STATUS
458	ALLEGANY	AETNA LUMBER	RT 6 BOX 212	CUMBERLAND	MD	21502	NONE	NFRAP
003	ALLEGANY	CABIN RUN LF	CABIN RUN RD	FROSTBURG	MD	21532	NONE	NFRAP
031	ALLEGANY	CELANESE FIBERS CO - AMCELLE PLANT	US RT 220 S	CUMBERLAND	MD	21502	NONE	NFRAP
195	ALLEGANY	CUMBERLAND GAS LIGHT CO	N MECHANIC ST	CUMBERLAND	MD	21502	NONE	NFRAP
197	ALLEGANY	FROSTBURG GAS LIGHT CO	W SIDE OF GRANT ST	FROSTBURG	MD	21532	NONE	NFRAP
004	ALLEGANY	HOFFMAN LF	FROSTBURG IND PARK RT 36	FROSTBURG	MD	21532	NONE	NFRAP
410	ALLEGANY	KELLY SPRINGFIELD TIRE CO	800 KELLY RD	CUMBERLAND	MD	21502	NONE	NFRAP
042	ALLEGANY	KOPPERS CO INC - OLDTOWN	RUBY RD	OLD TOWN	MD	21555	CHARLES O WALTERS	NFRAP
328	ALLEGANY	LAVALE WAREHOUSE FIRE	1210 NATIONAL HWY	LAVALE	MD	21502	NONE	NFRAP
084	ALLEGANY	LIMESTONE ROAD SITE	LIMESTONE RD OFF RT 51	CUMBERLAND	MD	21502	CUMBERLAND CEMENT & SUPPLY, DIGGS SANITATION	NPL
139	ALLEGANY	OLD CUMBERLAND CITY/COUNTY DUMP	LIMESTONE RD	CUMBERLAND	MD	21502	NONE	NFRAP
339	ALLEGANY	PRECISE METALS AND PLASTICS, INC	DAY RD, MEXICO FARMS INDUS PRK	CUMBERLAND	MD	21502	NONE	NFRAP
005	ALLEGANY	VALE SUMMIT LF	RTS 36 & 38	FROSTBURG	MD	21532	NONE	NFRAP
457	ALLEGANY	WILLISON OIL COMPANY	RT 2 BOX 101	CUMBERLAND	MD	21502	NONE	NFRAP
452	ANNE ARUNDEL	A.S. PEARMON	1270 HARDY RD	ARNOLD	MD	21012	NONE	NFRAP
353	ANNE ARUNDEL	ALCO-GRAVURE INC	701 BALTIMORE ANNAPOLIS BLVD	GLEN BURNIE	MD	21061	NONE	NFRAP
035	ANNE ARUNDEL	ANNE ARUNDEL CO LF	DOVER RD	GLEN BURNIE	MD	21061	GLEN BURNIE LF	DEFERRAL
362	ANNE ARUNDEL	B & O RAILROAD LF	KEMBO RD	BALTIMORE	MD	21226	NONE	UI
006	ANNE ARUNDEL	BROWNING FERRIS IND - SOLLEY RD LF	7890 SOLLEY RD	GLEN BURNIE	MD	21061	SAN DISP INC, SOLLEY RD LF	NFRAP
480	ANNE ARUNDEL	CHERRY PIT DRUM	701 PITTMAN ROAD - SITE B	BALTIMORE	MD	21226	NONE	NFRAP
456	ANNE ARUNDEL	COX CREEK REFINING	1000 KEMBO RD	BALTIMORE	MD	21226	NONE	NFRAP
204	ANNE ARUNDEL	DAVID TAYLOR/ANNAPOLIS - CONTROL	640A BROADNECK RD	ANNAPOLIS	MD	21401	NONE	UI
203	ANNE ARUNDEL	DAVID TAYLOR/ANNAPOLIS - LAUNCH	BAY HEAD RD	ANNAPOLIS	MD	21401	NONE	UI
206	ANNE ARUNDEL	DAVIDSONVILLE - CONTROL	QUEEN ANNE BRIDGE & WAYSON RDS	DAVIDSONVILLE	MD	21035	NONE	NFRAP
205	ANNE ARUNDEL	DAVIDSONVILLE - LAUNCH	3737 ELMER HAGNER LN	DAVIDSONVILLE	MD	21035	NONE	NFRAP
408	ANNE ARUNDEL	DRUMCO DRUM DUMP	ASPEN ST OFF PENNINGTON AVE	BALTIMORE	MD	21225	NONE	NFRAP
429	ANNE ARUNDEL	EPA CENTRAL REGIONAL LABORATORY	839 BESTGATE RD	ANNAPOLIS	MD	21401	NONE	NFRAP
208	ANNE ARUNDEL	FORT SMALLWOOD - CONTROL	OLD NIKE MISSILE SITE RD	PASADENA	MD	21122	NONE	NFRAP
207	ANNE ARUNDEL	FORT SMALLWOOD - LAUNCH	9034 FORT SMALLWOOD RD	PASADENA	MD	21122	ANNAPOLIS - NIKE	NFRAP
365	ANNE ARUNDEL	FRESH POND	FOREST GLEN DR	PASADENA	MD	21122	NONE	NFRAP
336	ANNE ARUNDEL	GENERAL SERVICE ADMIN - CURTIS BAY DEPOT	710 ORDNANCE RD	BALTIMORE	MD	21226	NONE	NFRAP
178	ANNE ARUNDEL	GREEN VALLEY RD SITE	GREEN VALLEY RD	ARNOLD	MD	21012	NONE	NFRAP
158	ANNE ARUNDEL	HONEYWELL INC	401 DEFENSE HWY	ANNAPOLIS	MD	21401	NONE	NFRAP
030	ANNE ARUNDEL	JOY BOEHM LF	1373 ST STEPHENS CHURCH RD	CROWNSVILLE	MD	21032	BOEHM JOY LF, ST STEPHENS CHURCH RD SITE	NFRAP
073	ANNE ARUNDEL	JOY RECLAMATION CO	6400 ARUNDEL CORP RD	GLEN BURNIE	MD	21061	ARUNDEL CORP RD SITE, JOY/HAMLEN RECLAMATION	NFRAP
286	ANNE ARUNDEL	KOP-FLEX INC	101 HARMAN RD	HARMON	MD	21077	KOPPERS CO INC POWER TRANS	NFRAP
070	ANNE ARUNDEL	MID-ATLANTIC WOOD PRESERVERS	PO BOX 58 SHIPLEY AVE	HARMANS	MD	21077	MID-ATLANTIC HARMANS WOOD TR FACTORY	NPL
081	ANNE ARUNDEL	MIDDLETOWN RD DUMP SITE	MIDDLETOWN RD	ANNAPOLIS	MD	21401	DALE DICKERSON DUMP	UI
072	ANNE ARUNDEL	NEVAMAR CORP	8339 TELEGRAPH RD	ODENTON	MD	21113	NONE	NFRAP
406	ANNE ARUNDEL	US COAST GUARD	HAWKINS POINT RD	BALTIMORE	MD	21226	NONE	UI
334	ANNE ARUNDEL	US NAVAL STATION	ANNAPOLIS NAVAL COMPLEX	BETHESDA	MD	20084	US NAVAL COMPLEX ANNAPOLIS	UI
067	ANNE ARUNDEL	USA FORT GEORGE MEADE	FT MEADE	FT MEADE	MD	20755	STORAGE YARD, USA BLDG T37 SUB STA 3, USA TRAINING AREA T38, USA BUILDING 6527, CAMP MEADE	UI
059	ANNE ARUNDEL	USN COMMISSARY STORE PARK LOT AREA SOUTH	KINKAID RD	ANNAPOLIS	MD	21402	USN NAVAL STATION LAGOON, USN RADIO TRANSMITTING FACILITY, USN NAVAL STATION, US NAVAL COMPLEX ANNAPOLIS	UI
063	ANNE ARUNDEL	USN NAVAL ACADEMY	PUBLIC WKS DEPT	ANNAPOLIS	MD	21402	USN NAVAL ACADEMY WHERRY HOUSING PROJ	NFRAP
041	ANNE ARUNDEL	VECTRA CORP - ODENTON	8305 TELEGRAPH RD	ODENTON	MD	21113	ODENTON PLT, CHEVRON CHEMICAL	NFRAP
192	ANNE ARUNDEL	WOODS ROAD SITE	END-WOODS RD/BORDERS MAGOTHY BR. RD	ANNAPOLIS	MD	21122	NONE	NFRAP
174	BALTIMORE	68TH STREET DUMP	68TH ST & PULASKI HWY	ROSEDALE	MD	21237	NONE	UI
173	BALTIMORE	AVESTA SHEFFIELD	ROLLING MILL RD	BALTIMORE	MD	21224	EASTERN STAINLESS STEEL (FORMERLY)	NFRAP
069	BALTIMORE	BALTIMORE GALVANIZING COMPANY INC	7110 QUAD AVE	BALTIMORE	MD	21237	NONE	NFRAP
175	BALTIMORE	BATAVIA LF	619 BATAVIA FARM RD	BALTIMORE	MD	21222	NONE	NFRAP
297	BALTIMORE	BAUER FARM	OFF NORTH PT RD & BAUERS FARM RD	BALTIMORE	MD	21219	NONE	NFRAP
155	BALTIMORE	BAUSCH & LOMB, DIECRAFT	14600 YORK RD	SPARKS	MD	21152	NONE	DEFERRAL
388	BALTIMORE	BEACHWOOD DEVELOPMENT	MORSE LN & TODD PT	BALTIMORE	MD	21222	NONE	NFRAP
395	BALTIMORE	BENDIX CORP	1300 JOPPA RD	BALTIMORE	MD	21204	NONE	NFRAP
018	BALTIMORE	BROWNING FERRIS IND - CHEM PROCESSING CNTR	101 NORRIS LN	BALTIMORE	MD	21222	CHEM PROCESSING CNTR, NORRIS FARM LF	NFRAP
187	BALTIMORE	BUCKS STEEL DRUM	8234 ROSEBANK AVE	BALTIMORE	MD	21222	NONE	NFRAP
315	BALTIMORE	CIRCUIT CITY	6211 ROSSVILLE BLVD	BALTIMORE	MD	21237	NONE	NFRAP
176	BALTIMORE	COLGATE PAY DUMP	6700 PULASKI HWY (I-95 @ MORAVIA)	BALTIMORE	MD	21237	NONE	NFRAP
380	BALTIMORE	CUTRONICS	1925 & 1941 GREENSPRING DR	TIMONIUM	MD	21093	NONE	NFRAP
016	BALTIMORE	DUNDALK MARINE TERMINAL	2701 BROENING HWY	BALTIMORE	MD	21222	NONE	NFRAP
210	BALTIMORE	FORK - CONTROL	END OF HUTSCHENREUTER RD	KINGSVILLE	MD	21057	NONE	UI
209	BALTIMORE	FORK - LAUNCH	OFF STOCKDALE RD	KINGSVILLE	MD	21087	NONE	NFRAP
264	BALTIMORE	FOUR CORNERS (JACKSONVILLE)	JARRETSVILLE PK & SWEET AIR RD	JACKSONVILLE	MD	21131	JACKSONVILLE SITE, FOUR CORNERS EXXON	NFRAP
316	BALTIMORE	GIBSON HOMANS	1101 HANZLIK AVE	BALTIMORE	MD	21237	NONE	NFRAP
214	BALTIMORE	GREENSPRING - CONTROL	GREENSPRING AVE	GREENSPRING	MD	21117	NONE	UI

MD #	COUNTY	SITE NAME	STREET	CITY	STATE	ZIP	ALIASES	STATUS
213	BALTIMORE	GREENSPRING - LAUNCH	RIDGE RD	GREENSPRING	MD	21117	TOWSON - NIKE	NFRAP
184	BALTIMORE	INDUSTRIAL ENTERPRISES	7100 QUAD AVE	BALTIMORE	MD	21237	NONE	NFRAP
280	BALTIMORE	J & L INDUSTRIES INC	6923 EBENEZER RD	BALTIMORE	MD	21220	NONE	NFRAP
285	BALTIMORE	KOPPERS CO	GLEN ARM RD	GLEN ARM	MD	21087	UNITED CONTAINER MACHINERY GROUP INC	NFRAP
309	BALTIMORE	LEO J. MCCOURT DUMP	MORSE RD, OFF OF NORTH POINT	BALTIMORE	MD	21222	NONE	NFRAP
172	BALTIMORE	MARTIN MARIETTA CORP	1601 ROLLING RD	BALTIMORE	MD	21227	NONE	NFRAP
304	BALTIMORE	MARTIN'S STATE AIRPORT	BOX 1 701 WILSON POINT RD	BALTIMORE	MD	21220	NONE	NFRAP
310	BALTIMORE	MARTIN'S STATE AIRPORT SITE II (ANG)	EASTERN AVE AND WILSON POINT RD	BALTIMORE	MD	21220	AIR NATIONAL GUARD	UI
389	BALTIMORE	MARYVALE PREPARATORY SCHOOL	11300 FALLS RD	BROOKLANDVILLE	MD	21022	NONE	NFRAP
277	BALTIMORE	METALS & RESIDUES PROCESSING	10107 MARBLE CT	COCKEYSVILLE	MD	21030	NONE	NFRAP
276	BALTIMORE	METALS AND RESIDUES PROCESSING	4400 MILFORD MILL RD	BALTIMORE	MD	21208	NONE	NFRAP
464	BALTIMORE	NATIONAL CIRCUIT INC-TIMONIUM PROPERTY	108 TIMONIUM RD	BALTIMORE	MD	21204	NONE	NFRAP
463	BALTIMORE	NATIONAL CIRCUITS INC-PIKESVILLE PROPERTY	PARK CIRCLE	BALTIMORE	MD	21209	NONE	NFRAP
238	BALTIMORE	OH WILLIAMSON	WILLIAMSON LN	COCKEYSVILLE	MD	21030	MANN & PARKER LUMBER CO	NFRAP
449	BALTIMORE	PARKTON LF	I-83 & STABLERS CHURCH ROAD	PARKTON	MD	21120	NONE	NFRAP
331	BALTIMORE	REISTERS PROPERTY	JUNCTION MD RTS 30 & 140	REISTERSTOWN	MD	21136	NONE	NFRAP
166	BALTIMORE	RELAY MUD SLIDE	WOODLAND DR & VIADUCT AVE	BALTIMORE	MD	21227	NONE	NFRAP
133	BALTIMORE	RM WINSTEAD CO	68TH ST & PULASKI HWY	BALTIMORE	MD	21237	NONE	NFRAP
349	BALTIMORE	SAFETY KLEEN CORP - CATONSVILLE	1012-1/2 LESLIE AVE	BALTIMORE	MD	21228	NONE	NFRAP
181	BALTIMORE	SAUER DUMP	4225 LYNHURST RD	BALTIMORE	MD	21222	NONE	UI
188	BALTIMORE	SECURITY BLVD SITE	1718 K BELMONT AVE	BALTIMORE	MD	21207	NONE	NFRAP
080	BALTIMORE	SMUCK DUMP	HOLLINS FERRY RD	LANDSDOWNE	MD	21227	NONE	NFRAP
479	BALTIMORE	SPARROWS POINT	PATAPSCO RIVER	BALTIMORE	MD	21226	NONE	NFRAP
265	BALTIMORE	STANSBURY PARK	STANSBURY & HYDRANGEA RDS	BALTIMORE	MD	21222	NONE	UI
288	BALTIMORE	SUN CHEMICAL CORP - GPI DIV	42 GWYNNS MILL CT	OWINGS MILLS	MD	21117	NONE	NFRAP
289	BALTIMORE	THOMPSON STEEL COMPANY INC	NORTH POINT BLVD	BALTIMORE	MD	21219	NONE	NFRAP
412	BALTIMORE	TOWSON LAUNCH BA - 92	RIDGE RD NEAR RT 45	TOWSON	MD	21136	NONE	UI
157	BALTIMORE	US ARMY PHOENIX - CONTROL	SUNNYBROOK RD	JACKSONVILLE	MD	21131	USA PHOENIX NIKE SITE (FCA), PHOENIX NIKE, PHOENIX MILITARY RESERVATION	NFRAP
234	BALTIMORE	US ARMY PHOENIX - LAUNCH	PAPERMILL RD	JARRETSVILLE	MD	21131	NONE	UI
132	BALTIMORE	VULCAN MATERIALS METALS DIV	2415 GRAYS RD	BALTIMORE	MD	21219	NONE	NFRAP
147	BALTIMORE CITY	1ST PLANT	GUILFORD & SARATOGA STS	BALTIMORE	MD	21201	NONE	NFRAP
148	BALTIMORE CITY	2ND PLT	SARATOGA & HOLIDAY STS	BALTIMORE	MD	21201	HOLIDAY PLT	NFRAP
160	BALTIMORE CITY	4TH GAS HOUSE	LANCASTER AND PATAPSCO STS	BALTIMORE	MD	21201	NONE	NFRAP
473	BALTIMORE CITY	AINSWORTH PAINT MFG SITE	3200 E BIDDLE ST	BALTIMORE	MD	21231	NONE	NFRAP
010	BALTIMORE CITY	ALLIED CHEM CORP - AG PLT	2000 RACE ST	BALTIMORE	MD	21231	NONE	NFRAP
013	BALTIMORE CITY	ALLIED CHEM CORP - BALTIMORE WKS	BLOCK & WILLS STS	BALTIMORE	MD	21231	BALTIMORE WKS	NFRAP
152	BALTIMORE CITY	AMERICAN CHEMMATE	HOWARD & WEST STS	BALTIMORE	MD	21230	CHEMICAL SERVICES	NFRAP
352	BALTIMORE CITY	AMERICAN NATIONAL CAN CO	BOSTON & LOMBARD STS	BALTIMORE	MD	21224	NONE	NFRAP
011	BALTIMORE CITY	AMERICAN RECOVERY CORP	1901 BIRCH ST	BALTIMORE	MD	21226	NONE	NFRAP
105	BALTIMORE CITY	AMOCO OIL CO	3901 ASIATIC AVE	BALTIMORE	MD	21226	NONE	NFRAP
140	BALTIMORE CITY	ANCHOR HOCKING CORP - CARR LOWREY GLASS	2201 KLOMAN ST	BALTIMORE	MD	21230	NONE	NFRAP
106	BALTIMORE CITY	ARMCO BALTIMORE WKS	3501 E BIDDLE ST	BALTIMORE	MD	21213	NONE	NFRAP
257	BALTIMORE CITY	BALTIMORE IRON & METAL	PIER 11 PATAPSCO RIVER E	BALTIMORE	MD	21224	NONE	NFRAP
051	BALTIMORE CITY	BALTIMORE STEEL DRUM CORP	910 KRESSON ST	BALTIMORE	MD	21224	STEEL DRUM SITE	NFRAP
161	BALTIMORE CITY	BAYARD STATION	BAYARD AND BUSH ST	BALTIMORE	MD	21201	NONE	NFRAP
466	BALTIMORE CITY	BLOEDE MANUFACTURER PROPERTY	CORNER OF WILKENS & CATON AVE	BALTIMORE	MD	21229	NONE	NFRAP
283	BALTIMORE CITY	BOARMAN, JW CO, INC	2821-23 FOSTER AVE	BALTIMORE	MD	21224	NONE	NFRAP
154	BALTIMORE CITY	BOWLEY'S LANE LF	MORAVIA RD	BALTIMORE	MD	21205	NONE	NFRAP
019	BALTIMORE CITY	BROWNING FERRIS IND - QUARANTINE RD	5901 QUARANTINE RD	BALTIMORE	MD	21226	ROBB TYLER (BFI PORTION), QUARANTINE RD	NFRAP
273	BALTIMORE CITY	BRUNING PAINT CO	601 S HAVEN ST	BALTIMORE	MD	21224	NONE	NFRAP
159	BALTIMORE CITY	CANTON STATION	FAIT AND LAKEWOOD STS	BALTIMORE	MD	21201	NONE	NFRAP
253	BALTIMORE CITY	CAPITAL ASSAY LABS SITE	2901 WHITTINGTON AVE	BALTIMORE	MD	21230	NONE	NFRAP
082	BALTIMORE CITY	CHEMICAL METALS IND	2001 & 2103 ANNAPOLIS RD	BALTIMORE	MD	21230	CMI	NFRAP
274	BALTIMORE CITY	CHESAPEAKE FINISHED METALS INC	6754 SANTA BARBARA CT	BALTIMORE	MD	21227	NONE	NFRAP
143	BALTIMORE CITY	CHEVRON USA - BALTIMORE REFINERY	1955 CHESAPEAKE AVE	BALTIMORE	MD	21226	NONE	NFRAP
109	BALTIMORE CITY	CONOCO CHEMICAL CO BALTIMORE PLT	3441 FAIRFIELD RD	BALTIMORE	MD	21226	VISTA CHEMICAL CORP	NFRAP
110	BALTIMORE CITY	CONOCO INC BALTIMORE TERM	3410 FAIRFIELD RD	BALTIMORE	MD	21226	NONE	NFRAP
263	BALTIMORE CITY	CONRAIL ORANGEVILLE YARD	6000 E LOMBARD ST	BALTIMORE	MD	21201	NONE	NFRAP
354	BALTIMORE CITY	CONTINENTAL CAN CO - USA PLANT #16	3701 DUNCANWOOD LANE	BALTIMORE	MD	21213	NONE	NFRAP
113	BALTIMORE CITY	CROWN CENTRAL PETROLEUM CORP	1622 S CLINTON ST	BALTIMORE	MD	21224	NONE	NFRAP
112	BALTIMORE CITY	CROWN CENTRAL PETROLEUM CORP	6000 PENNINGTON AVE	BALTIMORE	MD	21226	NONE	NFRAP
071	BALTIMORE CITY	DIAMOND SHAMROCK CORP CHEMETALS DIV	711 PITTMAN RD	BALTIMORE	MD	21226	CHEMETALS CORP	NFRAP
153	BALTIMORE CITY	DYNASURF CHEMICAL CORP	1411 FLEET ST	BALTIMORE	MD	21231	NONE	NFRAP
379	BALTIMORE CITY	E FEDERAL ST SITE	E OF 3520 E FEDERAL ST	BALTIMORE	MD	21213	NONE	NFRAP
114	BALTIMORE CITY	ESTECH GENERAL CHEM CO	5500 CHEM RD	BALTIMORE	MD	21226	NONE	NFRAP
091	BALTIMORE CITY	EXXON CO USA	3801 BOSTON ST	BALTIMORE	MD	21224	NONE	NFRAP
017	BALTIMORE CITY	FMC CORP	1701 E PATAPSCO AVE	BALTIMORE	MD	21226	NONE	NFRAP
411	BALTIMORE CITY	FORT HOLABIRD CRIME RECORDS CENTER	CORNER OF OAKLAND & DETROIT AVES	BALTIMORE	MD	21222	NONE	NFRAP

MD #	COUNTY	SITE NAME	STREET	CITY	STATE	ZIP	ALIASES	STATUS
007	BALTIMORE CITY	HAWKINS PT - MD PORT ADMIN	HAWKINS PT RD	BALTIMORE	MD	21202	NONE	NFRAP
233	BALTIMORE CITY	HIGHLAND TOWN GAS	3913 PULASKI HWY	BALTIMORE	MD	21224	NONE	NFRAP
367	BALTIMORE CITY	HUTTON AVENUE LF, E & W	4825-4835 WINDSOR MILL RD	BALTIMORE	MD	21207	RIDGETOP ROAD DUMP	UI
169	BALTIMORE CITY	KANE & LOMBARD ST DRUMS	KANE & LOMBARD STS	BALTIMORE	MD	21224	NONE	NPL
340	BALTIMORE CITY	KEY HWY SHIPYARD	1101 KEY HWY	BALTIMORE	MD	21230	NONE	NFRAP
021	BALTIMORE CITY	KOPPERS CO BALTIMORE TREATING PLT LF	FOOT OF CHILDS ST FAIRFIELD	BALTIMORE	MD	21226	NONE	NFRAP
431	BALTIMORE CITY	KOPPERS CO INC - METAL PRODUCTS DIV	200 SCOTT ST	BALTIMORE	MD	21230	NONE	NFRAP
284	BALTIMORE CITY	KOPPERS CO INC- ENGR MET PROD G	1400 BUSH ST	BALTIMORE	MD	21230	KAYDON RING & SEAL INC	NFRAP
258	BALTIMORE CITY	LOCOMOTIVE JUNKYARD		BALTIMORE	MD	21201	NONE	NFRAP
118	BALTIMORE CITY	M & T CHEMICALS INC	1900 CHESAPEAKE AVE	BALTIMORE	MD	21226	NONE	NFRAP
092	BALTIMORE CITY	MONUMENT ST LF	MONUMENT ST & EDISON HWY	BALTIMORE	MD	21205	NONE	NFRAP
471	BALTIMORE CITY	MORGAN STATE UNIVERSITY SITE	COLD SPRING LN & HILLEN RD	BALTIMORE	MD	21239	NONE	NFRAP
119	BALTIMORE CITY	MRI CORP	414 CHESAPEAKE AVE	BALTIMORE	MD	21226	NONE	NFRAP
434	BALTIMORE CITY	NIH-NIA GERONTOLOGY RESEARCH CNTR	4040 EASTERN AVE	BALTIMORE	MD	21224	NONE	NFRAP
421	BALTIMORE CITY	NOVA-KOTE INC.	7615 ENERGY PARKWAY	BALTIMORE	MD	21226	NONE	NFRAP
272	BALTIMORE CITY	OLGA NELSON ENTERPRISES	7269 WASHINGTON BLVD	BALTIMORE	MD	21227	NONE	NFRAP
014	BALTIMORE CITY	OLIN CORP - CURTIS BAY	5501 PENNINGTON AVE	BALTIMORE	MD	21226	CURTIS BAY PLANT	NFRAP
055	BALTIMORE CITY	PEMCO PRODUCTS	5601 EASTERN AVE	BALTIMORE	MD	21224	MOBAY CHEMICAL CORP PEMCO PROD DIV	NFRAP
179	BALTIMORE CITY	PICORP INC	6508 E LOMBARD ST	BALTIMORE	MD	21224	NONE	NFRAP
249	BALTIMORE CITY	PLATING SITE	1009 W BALTIMORE ST	BALTIMORE	MD	21223	UNION PLATING, UNION ART GOLD AND SILVER	NFRAP
422	BALTIMORE CITY	PORT LIBERTY INDUSTRIAL PARK	1900 FRANKFURST AVE.	BALTIMORE	MD	21230	NONE	NFRAP
020	BALTIMORE CITY	REEDBIRD LF	POTEE ST & ROADBIRD AVE	BALTIMORE	MD	21202	NONE	NFRAP
383	BALTIMORE CITY	ROBERT E. LEE PARK/LAKE ROLAND BRIDGE	RAILROAD MARKER 387	BALTIMORE	MD	21209	NONE	NFRAP
343	BALTIMORE CITY	SAFETY KLEEN CORP	1448-50 DESOTO RD	BALTIMORE	MD	21230	NONE	NFRAP
009	BALTIMORE CITY	SCM CORP QUARANTINE RD SITE	5901 QUARANTINE RD	BALTIMORE	MD	21226	ROBB TYLER LF	NFRAP
191	BALTIMORE CITY	SCOTT ST STATION	SCOTT & OSTEND STS	BALTIMORE	MD	21230	NONE	NFRAP
245	BALTIMORE CITY	SEVERN ST STATION	1400 BLK SEVERN ST	BALTIMORE	MD	21230	NONE	NFRAP
279	BALTIMORE CITY	SHERWIN WILLIAMS	2325 HOLLINS FERRY RD	BALTIMORE	MD	21230	NONE	NFRAP
244	BALTIMORE CITY	SMITH, F. BOWIE & SON INC	4500 E LOMBARD ST	BALTIMORE	MD	21224	NONE	NFRAP
201	BALTIMORE CITY	SNOW HILL LANE SITE	SNOW HILL LN & CEDAR HILL LN	BALTIMORE	MD	21225	CHERKOFF SITE	NFRAP
378	BALTIMORE CITY	SOUTHGATE INDUSTRIAL PARK	2147 WICOMICO ST	BALTIMORE	MD	21201	NONE	UI
145	BALTIMORE CITY	SPRING GARDENS	FORT & LEADENHALL STS	BALTIMORE	MD	21201	NONE	NFRAP
312	BALTIMORE CITY	STIEGAL SUPPLY & EQUIPMENT CO	6001 CHEMICAL RD	BALTIMORE	MD	21226	NONE	NFRAP
390	BALTIMORE CITY	TANK BARGE #626	PIER ONE - CLINTON STREET	BALTIMORE	MD	21224	NONE	NFRAP
131	BALTIMORE CITY	TEXACO INC	3820 FOURTH AVE	BALTIMORE	MD	21226	NONE	NFRAP
015	BALTIMORE CITY	WR GRACE & CO - DAVIDSON CHEM DIV	5500 CHEMICAL RD	BALTIMORE	MD	21226	NONE	NFRAP
062	CALVERT	USN NAVAL RESEARCH LAB - CHES BAY DETACH	MD RD 261	RANDLE CLIFF BEACH	MD	20732	USN NAVAL RESEARCH LAB, USN CHES BAY DETACH PAST CHEM LF, USN CHES BAY DETACH BLDG 4	UI
058	CALVERT	USN SURFACE WARFARE CNTR-SOLOMON'S ISLAND	DEPT OF THE NAVY	SOLOMON'S ISLAND	MD	20688	NONE	UI
438	CAROLINE	OLD WEST DENTON DUMP	RIVER RD	DENTON	MD	21629	NONE	NFRAP
240	CAROLINE	RELIANCE WOOD PRESERVING CO	RELIANCE RD	FEDERALSBURG	MD	21632	NONE	NFRAP
416	CAROLINE	SKIPJACK CHEMICALS, INC.	RT 2 BOX 26E	DENTON	MD	21629	NONE	NFRAP
345	CARROLL	3M NATIONAL ADVER - WESTMINSTER	1030 BALTIMORE BLVD	WESTMINSTER	MD	21157	NONE	NFRAP
467	CARROLL	BACHMAN VALLEY LF - LOCATION II	1920 BACHMAN VALLEY RD	MANCHESTER	MD	21102	NONE	NFRAP
333	CARROLL	BACHMANS VALLEY LF	1920 BACHMANS VALLEY RD	MANCHESTER	MD	21102	NONE	NFRAP
370	CARROLL	BLACK & DECKER	10 NORTH PARK DR	HAMPSTEAD	MD	21074	NONE	DEFERRAL
142	CARROLL	CATALYST RESEARCH	1125 POOLE RD	WESTMINSTER	MD	21157	NONE	NFRAP
190	CARROLL	CRANBERRY RUN SUB STATION	OLD MANCHESTER RD	WESTMINSTER	MD	21157	NONE	NFRAP
447	CARROLL	HODGES LF	HODGES RD	ELDERSBURG	MD	21784	NONE	NFRAP
322	CARROLL	KATE WAGNER LF	RT 27 & RIDGE RD	WESTMINSTER	MD	21157	NONE	NFRAP
371	CARROLL	LANGS JUNKYARD	RT 30 BETWEEN 232 & 242	HAMPSTEAD	MD	21074	NONE	NFRAP
437	CARROLL	LEHIGH PORTLAND CEMENT COMPANY	117 SOUTH MAIN STREET	UNION BRIDGE	MD	21791	NONE	NFRAP
332	CARROLL	MIL SPEC FASTENERS CORP	RT 30 BOX 59A - HANOVER PIKE	HAMPSTEAD	MD	21074	NONE	NFRAP
320	CARROLL	NORTH CARROLL SHOPPING PLAZA	RT 30 & BRODBECK RD	HAMPSTEAD	MD	21074	NONE	DEFERRAL
167	CARROLL	POWRMATIC INC	INDUSTRIAL PARK DR	FINKSBURG	MD	21048	NONE	NFRAP
478	CARROLL	RAY'S AUTO PARTS E.R.	7571 MIDDLEBERG ROAD	DETOUR	MD		NONE	NFRAP
392	CARROLL	SMALL LAB SITE	7606 PATAPSCO RD	SYKESVILLE	MD	21784	NONE	NFRAP
357	CARROLL	W DORSEY PROPERTY	804 E RIDGEVILLE RD	MT AIRY	MD	21773	NONE	NFRAP
146	CARROLL	WESTMINSTER PLANT	GEORGE ST	WESTMINSTER	MD	21157	NONE	NFRAP
307	CARROLL	WOLF HILL	OFF OF RT 30	HAMPSTEAD	MD	21074	NONE	NFRAP
474	CECIL	ANCHOR MARINA ASSESSMENT	.5 OFF RT 272 IRIQUOIS DR	NORTH EAST	MD	21901	NONE	NFRAP
385	CECIL	BIG ELK CHAPEL ROAD LF	OFF BIG ELK CHAPEL RD	PROVIDENCE	MD	21921	NONE	NFRAP
027	CECIL	CECIL COUNTY LF	OLD ELK NECK RD	ELKTON	MD	21901	ELK NECK LF	NFRAP
325	CECIL	CENTRAL CHEMICAL CO	TRINCO INDUSTRIAL PARK	ELKTON	MD	21921	NONE	NFRAP
318	CECIL	CHILDS PROPERTY	180 CHILDS RD	CHILDS	MD	21921	PAUL MRAZ	NFRAP
314	CECIL	CROUSE BROS EXCAVATING INC	PULASKI HWY & RT 279	ELKTON	MD	21921	NONE	NFRAP
313	CECIL	DWYER PROPERTY	RTS 279 & 545 PARCEL 1037 SW	ELKTON	MD	21921	NONE	NFRAP
433	CECIL	ELKTON FARM	183 ZEITLER RD	ELKTON	MD	21921	NONE	NFRAP
196	CECIL	ELKTON GAS LIGHT CO	WATER ST	ELKTON	MD	21921	NONE	NFRAP

MD #	COUNTY	SITE NAME	STREET	CITY	STATE	ZIP	ALIASES	STATUS
439	CECIL	FIRESTONE PERRYVILLE PLANT	FIRESTONE RD & RT #7	PERRYVILLE	MD	21903	NONE	NFRAP
294	CECIL	GE RAIL	TRINCO INDUSTRIAL PARK	ELKTON	MD	21921	P & R RAILCAR SERV CORP	NFRAP
440	CECIL	HOG HILL LF	RT 7	ELKTON	MD	21921	NONE	NFRAP
450	CECIL	HOPKINS QUARRY	HOPKINS QUARRY	PORT DEPOSIT	MD	21904	NONE	NFRAP
372	CECIL	IP INC	TRINCO INDUSTRIAL PARK	ELKTON	MD	21921	NONE	NFRAP
254	CECIL	IRON HILL ROAD DRUM SITE	117 IRON HILL RD	ELKTON	MD	21921	PYRONICS INC	NFRAP
259	CECIL	LOUISA LANE DUMPSITE	LOUISA LANE EXT	CHARLESTOWN	MD	21914	NONE	NFRAP
189	CECIL	MALMO FARMS	1435 CAYOTS CORNER RD	CHESAPEAKE CITY	MD	21915	NONE	NFRAP
137	CECIL	MONTGOMERY BROTHERS	OFF NAZARENE CAMP RD	NORTHEAST	MD	21921	NORTH EAST DUMP	NFRAP
386	CECIL	NATIONAL FIREWORKS	FAIRHILL RD PARCELS 75 & 1075	ELKTON	MD	21921	VICON PROPERTY	NFRAP
430	CECIL	NAVAL TRAINING CENTER BAINBRIDGE	US HWY 222	BAINBRIDGE	MD	21904	NONE	UI
074	CECIL	OLD ELKTON DUMP	JONES CHAPEL RD	ELKTON	MD	21921	NONE	NFRAP
268	CECIL	ORDNANCE PRODUCTS INC	MECHANICS VALLEY RD	NORTHEAST	MD	21901	MECHANICS VALLEY ORDNANCE SITE	NPL
455	CECIL	PRINCIPIO RD	551 PRINCIPIO RD	CRAIGTOWN	MD	21904	NONE	NFRAP
369	CECIL	REEVES SITE	400 MARLEY RD	ELKTON	MD	21921	NONE	NFRAP
472	CECIL	RMR	695 N BRIDGE ST	ELKTON	MD	21921	NONE	NFRAP
075	CECIL	RT 7 CHEM DUMP SITE	1.9 MILES W OF RT 40	ELKTON	MD	21921	NONE	NFRAP
033	CECIL	SAND GRAVEL & STONE SITE	RT 40	ELKTON	MD	21921	ELKTON QUARRY, MD SAND & GRAVEL	NPL
045	CECIL	SPECTRON INC	111 PROVIDENCE RD	ELKTON	MD	21921	GALAXY CHEMICAL, SOLVENT DISTILLERS	NPL
099	CECIL	STAUFFER CHEM CO	BLUEBELL RD TRINCO IND COM	ELKTON	MD	21921	GE RAILCAR, P&R SERV CORP	NFRAP
451	CECIL	STEMMERS RUN	STEMMERS RUN RD	EARLESVILLE	MD	21911	NONE	NFRAP
100	CECIL	THIOKOL CORP ELKTON	RT 40	ELKTON	MD	21921	MORTON-THIOKOL, CIBA-GEIGY	NFRAP
303	CECIL	TRIUMPH INDUSTRIAL PARK	3 BLUE BALL RD - PO BOX 1130	ELKTON	MD	21921	W.L. GORE	NFRAP
156	CECIL	USCG BACK CREEK REAR RANGE STRUCTURE	25 FT SQUARE POSITION	CHESAPEAKE CITY	MD	21915	NONE	NFRAP
366	CECIL	VICON PROPERTY	DOGWOOD & SINGERLY RDS	ELKTON	MD	21921	NONE	NFRAP
402	CECIL	WHITTAKER TROJAN YACHT	OLDFIELD POINT RD	ELKTON	MD	21921	NONE	NFRAP
337	CECIL	WL GORE - CHERRY HILL	2401 SINGERLY RD	ELKTON	MD	21921	NONE	NFRAP
050	CECIL	WOODLAWN CO LF	FIRE TOWER & WAIBEL RDS	WOODLAWN	MD	21904	WOODLAWN TRANSFER STATION, WOODLAWN LF	NPL
136	CHARLES	BLOSSOM POINT FIELD TEST AREA	CEDAR POINT NECK	LA PLATA	MD	20646	DIAMOND LABS TEST AREA	UI
261	CHARLES	CHARLES COUNTY SANITARY LF	RT 425	PISGAH	MD	20640	NONE	NFRAP
317	CHARLES	HUGHESVILLE TIRE SITE	GALLANT GREEN RD	HUGHESVILLE	MD	20601	NONE	NFRAP
064	CHARLES	INDIAN HEAD NAVAL SURFACE WARFARE CENTER	RT 210	INDIAN HEAD	MD	20640	USN NAVAL ORDNANCE STATION - 1006	UI
218	CHARLES	POMONKEY - CONTROL	BUMPY OAK RD	POMONKEY	MD	20646	NONE	NFRAP
217	CHARLES	POMONKEY - LAUNCH	BUMPY OAK RD	POMONKEY	MD	20646	NONE	NFRAP
216	CHARLES	US NAVAL RESEARCH LAB - CONTROL	END OF LAUREL BRANCH RD	WALDORF	MD	20601	NONE	UI
215	CHARLES	US NAVAL RESEARCH LAB - LAUNCH	BERRY RD	WALDORF	MD	20601	NRL WALDORF	UI
219	CHARLES	WALDORF - CONTROL	COUNTRY LN	WALDORF	MD	20601	W-44	NFRAP
299	DORCHESTER	BEULAH LF	RT 331	BEULAH	MD	21643	NONE	NFRAP
026	DORCHESTER	CAMBRIDGE CY DISP PLT WWTP	1010 ROSELYN AVE	CAMBRIDGE	MD	21613	NONE	NFRAP
025	DORCHESTER	CAMBRIDGE SITE	311 TRENTON	CAMBRIDGE	MD	21613	KERR MCGEE	NFRAP
165	DORCHESTER	CAMBRIDGE TOWN GAS	403 CHERRY ST	CAMBRIDGE	MD	21613	NONE	NFRAP
342	DORCHESTER	CONTINENTAL CAN CO - USA PLANT 24	RAILROAD AVE	HURLOCK	MD	21643	NONE	NFRAP
242	DORCHESTER	EASTERN MD WOOD TREATING CO	CLARKS CANNING HOUSE RD	FEDERALSBURG	MD	21632	NONE	NFRAP
420	DORCHESTER	NELSONS BODY SHOP	RT 16 & CHESAPEAKE DR	CAMBRIDGE	MD	21613	NONE	NFRAP
086	DORCHESTER	USN BLOODSWORTH ARCHIPELAGO	N POTOMAC R RUNS CHESPK BAY	N/A	MD	21613	NONE	UI
290	DORCHESTER	WESTERN PUBLISHING CO	WOODS RD	CAMBRIDGE	MD	21613	NONE	NFRAP
384	FREDERICK	ABRAMSON PROPERTY	9925 PINE TREE RD	WOODSBORO	MD	21798	NONE	NFRAP
202	FREDERICK	EASTALCO ALUMINUM CO	5601 MANOR WOODS RD	FREDERICK	MD	21701	NONE	NFRAP
428	FREDERICK	FORT DETRICK AREA B	ROSEMONT AVE	FREDERICK	MD	21701	NONE	UI
356	FREDERICK	FREDERICK TOOL AND DIE CO INC	579 E CHURCH ST	FREDERICK	MD	21701	NONE	NFRAP
164	FREDERICK	FREDERICK TOWN GAS	350 CHURCH ST	FREDERICK	MD	21701	NONE	NFRAP
066	FREDERICK	NCI FREDERICK CANCER RESEARCH	FT DETRICK	FREDERICK	MD	21701	NONE	UI
250	FREDERICK	TRANS TECH - ADAMSTOWN SITE	ADAMSTOWN RD	ADAMSTOWN	MD	21710	ADAMSTOWN GROUNDWATER SITE	NFRAP
076	FREDERICK	USA FORT DETRICK	FT DETRICK	FREDERICK	MD	21701	FREDERICK CANCER RESEARCH CENTER	UI
060	FREDERICK	USN NAVAL SUPPORT FACILITY	PO BOX 1000	THURMONT	MD	21788	USN NAVAL SUPPLY FACILITIES	UI
347	GARRETT	BAUSCH & LOMB INC - OAKLAND PLANT	RT 135	OAKLAND	MD	21550	NONE	NFRAP
351	GARRETT	HARBISON WALKER REFRACTORIES - NEW SAVAGE	RT 495	GRANTSVILLE	MD	21536	NONE	NFRAP
255	GARRETT	OAKLAND JUNKYARD SITE	RT 219	OAKLAND	MD	21053	ERNIE MARTINS	NFRAP
271	GARRETT	TEXAS EASTERN - ACCIDENT STATION	FRIENDSVILLE RD	ACCIDENT	MD	21520	NONE	NFRAP
441	GARRETT	UMBELL PROPERTY	RT 1 BOX 81	FRIENDSVILLE	MD	21531	NONE	NFRAP
239	GARRETT	WOOD PRODUCTS	8TH ST EXT	OAKLAND	MD	21550	NONE	NFRAP
001	HARFORD	ABERDEEN DUMP	MICHAEL LN	ABERDEEN	MD	21001	NONE	NFRAP
032	HARFORD	ABERDEEN PROVING GROUND - EDGEWOOD AREA	OFF RT 40	ABERDEEN	MD	21001	USA APG, USA EDGEWOOD ARSENAL, USCG-UPPER CHESAPEAKE RANGE USCG - POOLE ISLAND RANGE	NPL
065	HARFORD	ABERDEEN PROVING GROUND-MICHAELSVILLE LF	OFF RT 40	ABERDEEN	MD	21005	USA EDGEWOOD ARSENAL, USCG - POOLE ISLAND RANGE, USCG - UPPER CHESAPEAKE RANGE	NPL
301	HARFORD	ABINGDON LF	RT 7	ABINGDON	MD	21009	NONE	NFRAP
296	HARFORD	BATA SHOE - LATEX LAGOON	BELCAMP RD	BELCAMP	MD	21017	NONE	NFRAP
077	HARFORD	BATA SHOE - MAIN PLANT	US RT 40	BELCAMP	MD	21017	NONE	DEFERRAL

MD #	COUNTY	SITE NAME	STREET	CITY	STATE	ZIP	ALIASES	STATUS
460	HARFORD	BRAXTON PROPERTY LF	BUSH RD	ABINGDON	MD	21009	NONE	NFRAP
002	HARFORD	BUSH VALLEY LF	BUSH RD - PO BOX 246	ABINGDON	MD	21009	HARRIS LF	NPL
037	HARFORD	HAVRE DE GRACE DUMP	QUARRY RD	HAVRE DE GRACE	MD	21078	NONE	NFRAP
162	HARFORD	HAVRE DE GRACE PLT	200 BLOCK JUNIATA ST	HAVRE DE GRACE	MD	21078	NONE	NFRAP
387	HARFORD	IW JENKINS - MOUNTAIN RD PROPERTY	2206 MOUNTAIN RD - CENTRAL	JOPPA	MD	21085	NONE	NFRAP
462	HARFORD	JOHNSON PROPERTY LF	BUSH RD	ABINGDON	MD	21009	NONE	NFRAP
363	HARFORD	LONGS SEPTIC	4025 GRAVEL HILL RD	HAVRE DE GRACE	MD	21078	GRAVEL HILL RD	NFRAP
123	HARFORD	MILLER CHEMICAL & FERTILIZER CORP	RTS 136 & 135	WHITEFORD	MD	21160	NONE	NFRAP
461	HARFORD	MOORE PROPERTY LF	BUSH RD	ABINGTON	MD	21009	NONE	NFRAP
038	HARFORD	MULLINS LF	OLD POST RD RT 132	HAVRE DE GRACE	MD	21078	NONE	UI
236	HARFORD	SCARBORO LF	SCARBORO RD	SCARBORO	MD	21154	NONE	DEFERRAL
446	HARFORD	UNION RD DUMP	1515 UNION RD	ABERDEEN	MD	21001	LEISKE DUMP	UI
305	HOWARD	CEMETARY LN	MAYFIELD & MEADOWBRIDGE	ELKRIDGE	MD	21227	HOWARD COUNTY DRUM DUMP	NFRAP
115	HOWARD	GENERAL ELECTRIC CO	APPLIANCE PARK E	COLUMBIA	MD	21046	NONE	NFRAP
212	HOWARD	GRANITE - CONTROL	2845 HERNWOOD RD	WOODSTOCK	MD	21163	NONE	UI
211	HOWARD	GRANITE - LAUNCH	3085 HERNWOOD RD	WOODSTOCK	MD	21163	NONE	UI
034	HOWARD	HOWARD COUNTY LF	4361 NEWCUT RD	ELLCOTT CITY	MD	21043	NEW CUT LF	NFRAP
308	HOWARD	JOHNS HOPKINS APPLIED PHYSICS LAB	JOHNS HOPKINS RD	LAUREL	MD	20707	NONE	NFRAP
241	HOWARD	LONG LIFE TREATED WOOD INC	DORSEY RACEWAY RD	DORSEY	MD	21076	NONE	NFRAP
465	HOWARD	MAYFIELD REPAIR FACILITY	7751 MAYFIELD AVE	ELKRIDGE	MD	21227	MAYFIELD SHOP BUREAU OF HIGHWAY	NFRAP
330	HOWARD	MULLINEX FARM	FLORENCE & MULLINEX RDS	LISBON	MD	21765	NONE	NFRAP
417	HOWARD	PUBLISHERS PRINTING SERVICE INC.	10650 RIGGS HILL RD	JESSUP	MD	20794	NONE	NFRAP
262	HOWARD	SCOVITCH PROPERTY	9530 N WASHINGTON BLVD	LAUREL	MD	20707	NONE	NFRAP
373	HOWARD	TATE ACCESS FLOORS INC	7510 MONTERIDEO RD	JESSUP	MD	20794	NONE	NFRAP
326	HOWARD	WESTVACO CORPORATION	11101 JOHNS HOPKINS RD	LAUREL	MD	20810	NONE	NFRAP
117	HOWARD	WR GRACE WASHINGTON RESEARCH CENTER	7379 RT 32	COLUMBIA	MD	21044	NONE	NFRAP
198	KENT	CHESTERTOWN GAS CO	W HIGH ST	CHESTERTOWN	MD	21620	NONE	NFRAP
029	KENT	CHESTERTOWN MUNICIPAL DUMP	FLATLAND RD	CHESTERTOWN	MD	21620	NONE	NFRAP
469	KENT	DUTCH FAMILY DELI OIL SPILL	RTS 301 & 291	MILLINGTON	MD	21651	NONE	NFRAP
454	KENT	KENT PIT	KENT CO TAX MAP PARCEL 222	CHESTERTOWN	MD	21620	NONE	NFRAP
138	KENT	LAURENCE J NICHOLSON LF	NICHOLSON RD	CHESTERTOWN	MD	21620	NICHOLSON LF	NFRAP
028	KENT	TENNACO INC - CHESTERTOWN PLT	RT 297	CHESTERTOWN	MD	21620	NUDEX INC - CHESTERTOWN PLT	NFRAP
221	KENT	TOLCHESTER - CONTROL	TOLCHESTER BEACH RD	TOLCHESTER	MD	21661	NONE	NFRAP
220	KENT	TOLCHESTER - LAUNCH	ROCK HALL - TOLCHESTER RD	TOLCHESTER	MD	21661	CHESTERTOWN - NIKE	UI
409	MONTGOMERY	DAVID TAYLOR RESEARCH CENTER	CODE C231	BETHESDA	MD	20084	NONE	UI
223	MONTGOMERY	GAITHERSBURG - CONTROL	8510 SNOUFFERS SCHOOL RD	GAITHERSBURG	MD	20879	NONE	UI
222	MONTGOMERY	GAITHERSBURG - LAUNCH	OFF SNOUFFERS SCHOOL RD	GAITHERSBURG	MD	20879	GAITHERSBURG RESEARCH FACILITY	UI
306	MONTGOMERY	KENNETH SHUMAKER DUMP	BARNESVILLE RD	BARNESVILLE	MD	20872	NONE	NFRAP
225	MONTGOMERY	LAYTONSVILLE - CONTROL	ZION RD	LAYTONSVILLE	MD	20879	NIKE W-93	UI
224	MONTGOMERY	LAYTONSVILLE - LAUNCH	5321 RIGGS RD	LAYTONSVILLE	MD	20879	NONE	UI
144	MONTGOMERY	MARYLAND WOOD PRESERVING CORP	235 DERWOOD CIR	ROCKVILLE	MD	20850	NONE	NFRAP
398	MONTGOMERY	MCCORMICK PAINT WORKS	2355 LEWIS AVE	ROCKVILLE	MD	20851	NONE	NFRAP
361	MONTGOMERY	MICRODYNE CORP	627 LOFERRAND LN	ROCKVILLE	MD	20850	NONE	NFRAP
150	MONTGOMERY	NATIONAL INSTITUTE OF HEALTH	900 ROCKVILLE PIKE	BETHESDA	MD	20014	NONE	NFRAP
407	MONTGOMERY	NATIONAL INSTITUTE OF STANDARD TECHNOLOGY	I-270 & QUINCE ORCHARD RD	GAITHERSBURG	MD	20899	NONE	NFRAP
335	MONTGOMERY	NAVAL MEDICAL COMMAND	8901 WISCONSIN AVE	BETHESDA	MD	20814	NONE	NFRAP
477	MONTGOMERY	NORTH POTOMAC PCP	13801 TURKEY FOOT ROAD	NORTH POTOMAC	MD	20878	NONE	NFRAP
399	MONTGOMERY	PROTO CIRCUITS	14674 D SOUTLAWN LN	ROCKVILLE	MD	20850	NONE	NFRAP
227	MONTGOMERY	ROCKVILLE - CONTROL	10901 DARNSTOWN RD	GAITHERSBURG	MD	20878	NONE	NFRAP
226	MONTGOMERY	ROCKVILLE - LAUNCH	MUDDY BRANCH RD	GAITHERSBURG	MD	20878	NONE	UI
344	MONTGOMERY	SAFETY KLEEN CORP - SILVER SPRING	12164 TECH RD	SILVER SPRING	MD	20904	NONE	NFRAP
426	MONTGOMERY	SILVER SPRINGS CUSTOM FURNITURE	8943 BROOKVILLE RD	SILVER SPRING	MD	20910	NONE	NFRAP
061	MONTGOMERY	USN NAVAL SURFACE WARFARE CTR - WHITE OAK	10901 NEW HAMPSHIRE AVE	SILVER SPRING	MD	20903	NONE	NFRAP
360	MONTGOMERY	VECTROL INC	1010 WESTMORE AVE	ROCKVILLE	MD	20850	NONE	NFRAP
404	MONTGOMERY	WALTER REED AMC FOREST GLEN ANNEX	2961 LINDEN LN	ROCKVILLE	MD	20910	NONE	UI
432	MONTGOMERY	WALTER REED ARMY MEDICAL CENTER	RT 193	WHEATON	MD	20902	NONE	NFRAP
401	MONTGOMERY	WATKINS JOHNSON CO	700 QUINCE ORCHARD RD	GAITHERSBURG	MD	20760	NONE	NFRAP
180	MONTGOMERY	WEINSCHEL ENGINEERING	1 WEINSCHEL LN	GAITHERSBURG	MD	20877	NONE	NFRAP
068	PRINCE GEORGES	ADELPHI LABORATORY CENTER	2800 POWDER MILL RD	ADELPHI	MD	20783	USA HARRY DIAMONDS LABS	NFRAP
359	PRINCE GEORGES	AGGREGATE INDUSTRIES	DOWER HOWSER RD	MELLWOOD	MD	20772	NONE	NFRAP
024	PRINCE GEORGES	ANACOSTIA RIVER PARK	S OF BLADENSBURG RD	BLADENSBURG	MD	20722	NONE	NFRAP
476	PRINCE GEORGES	BEAVERDAM CREEK PCB	.5 OFF KENILWORTH AVE	BEAVER HEIGHTS	MD	20743	NONE	NFRAP
053	PRINCE GEORGES	BELTSVILLE AGRICULTURAL RESEARCH (USDA)	BLDGS 1321 & 204 BARL	BELTSVILLE	MD	20705	FDA VET MED (TENANT), FDA RESEARCH FAC (TENANT), BELTSVILLE AGRICULTURAL CENTER	NPL
039	PRINCE GEORGES	BLADENSBURG ACETYLENE	2900 52ND AVE	HYATTSVILLE	MD	20781	AIR PRODUCTS INC	NFRAP
090	PRINCE GEORGES	BOWIE-BELAIR LF	RTS 3 & 450	BOWIE	MD	20715	BROWNING FERRIS INDUSTRIES - BELAIR SANITARY	UI
229	PRINCE GEORGES	BRANDYWINE - CONTROL	13400 EDGEMEADE RD	UPPER MARLBORO	MD	20772	NONE	NFRAP
228	PRINCE GEORGES	BRANDYWINE - LAUNCH	CANDY HILL RD	NAYLOR	MD	20772	UPPER MARLBORO - NIKE	UI
413	PRINCE GEORGES	BRANDYWINE DRMO SALVAGE YARD	RT 381 BRANDYWINE RD	ANDREWS	MD	20331	NONE	UI

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108	PRINCE GEORGES	CAPITOL WIRE & FENCE	3334 KENILWORTH AVE	HYATTSVILLE	MD	20781	NONE	NFRAP
295	PRINCE GEORGES	CELIA LUST	BALTIMORE BLVD & SOUTHARD DR	BELTSVILLE	MD	20705	NONE	NFRAP
424	PRINCE GEORGES	CITY OF GREENBELT	555 CRESCENT RD	GREENBELT	MD	20770	NONE	NFRAP
291	PRINCE GEORGES	CLARK, J L MFG CO STONE INDUST	51ST AVE AND CREE LN	COLLEGE PARK	MD	20740	NONE	NFRAP
251	PRINCE GEORGES	COLUMBIA PARK DRUM SITE	GEORGE PALMER HWY & COLUMB	COLUMBIA PARK	MD	20785	NONE	NFRAP
182	PRINCE GEORGES	CONTEE SAND & GRAVEL	OFF VIRGINIA MANOR RD	BELTSVILLE	MD	20705	NONE	NFRAP
231	PRINCE GEORGES	CROOM - CONTROL	15100 MT CALVERT RD	UPPER MARLBORO	MD	20772	NONE	UI
230	PRINCE GEORGES	CROOM - LAUNCH	8520 DUVALL RD	UPPER MARLBORO	MD	20772	NONE	NFRAP
468	PRINCE GEORGES	CROOM MILITARY HOUSING	15512 MOUNT CALVERT RD	UPPER MARLBORO	MD	20772	NONE	NFRAP
443	PRINCE GEORGES	EAGLE HARBOR TIRE FIRE	EAGLE HARBOR RD	EAGLE HARBOR	MD	20608	NONE	NFRAP
170	PRINCE GEORGES	EVANS TRAIL DUMP SITE	EVANS TRAIL	CALVERTON	MD	20705	NONE	NFRAP
427	PRINCE GEORGES	GLENDALE PLANT GERMPASM QUARANTINE FAC	11601 OLD POND DR	GLENN DALE	MD	20769	NONE	UI
200	PRINCE GEORGES	HYATTSVILLE GAS & ELECTRIC	5022 RHODE ISLAND AVE	EDMONSTON	MD	20781	NONE	NFRAP
040	PRINCE GEORGES	KOPPERS CO DUMPSITE LAUREL	RT 1 & CONTEE RD	LAUREL	MD	20707	NONE	NFRAP
134	PRINCE GEORGES	KOPPERS CO LAUREL	RIVERSIDE DR	LAUREL	MD	20707	NONE	NFRAP
183	PRINCE GEORGES	LAUREL CITY LF	RT 198 FT MEADE RD	LAUREL	MD	20707	NONE	NFRAP
311	PRINCE GEORGES	LONDON HILLS DEVELOPMENT	END OF HIGHVIEW PL	CAPITOL HEIGHTS	MD	20743	NONE	NFRAP
419	PRINCE GEORGES	MID ATLANTIC FINISHING INC	4656 ADDISON RD	CAPITOL HEIGHTS	MD	20743	NONE	NFRAP
278	PRINCE GEORGES	MINERAL PIGMENTS CORP - BELTSVILLE	7011 MUIRKIRK RD	BELTSVILLE	MD	20705	NONE	NFRAP
368	PRINCE GEORGES	NASA - GODDARD SPACE FLIGHT CENTER		GREENBELT	MD	20770	NONE	NFRAP
355	PRINCE GEORGES	NELSON PERRIE DUMP	15200 NELSON PERRIE RD	BRANDYWINE	MD	20613	NONE	NFRAP
171	PRINCE GEORGES	OLD FORT ROAD SITE	11920 OLD FORT RD	FORT WASHINGTON	MD	20744	NONE	UI
470	PRINCE GEORGES	PAINT BRUSH LF AREA #3	UNIV OF MD COLLEGE PARK CAMPUS	COLLEGE PARK	MD	20742	NONE	NFRAP
267	PRINCE GEORGES	PATUXENT WILDLIFE RESEARCH CENTER	RT 197 AND POWDERMILL RD	LAUREL	MD	20708	PATUXENT ENVIRONMENTAL SCIENCE CNTR., US BIOLOGICAL SURVEY	UI
127	PRINCE GEORGES	PISCATAWAY WWTP	RT 1 FARMINGTON RD BOX 327	ACCOKEEK	MD	20607	NONE	NFRAP
445	PRINCE GEORGES	ROGERS ELECTRIC	5720 COLUMBIA PARK	CHEVERLY	MD	20785	NONE	NFRAP
248	PRINCE GEORGES	UNITED RIGGING & HAULING	6701 AMMENDALE RD	BELTSVILLE	MD	20705	NONE	NFRAP
323	PRINCE GEORGES	US NAVAL COMMUNICATION UNIT	DANGERFIELD & COMMO RDS	CHELTHENHAM	MD	20735	NONE	UI
088	PRINCE GEORGES	USAF ANDREWS AIR FORCE BASE	PERIMETER RD	ANDREWS AFB	MD	20331	USAF SANITARY LF #1, USAF SANITARY LF #2	UI
232	PRINCE GEORGES	WALDORF - LAUNCH	COUNTRY LN	BRANDYWINE	MD	20613	NONE	UI
358	PRINCE GEORGES	WILLIAM PLEASANTS	ALLEN TOWN RD	FRIENDLY	MD	20744	NONE	NFRAP
393	PRINCE GEORGES	WINDSOR MANOR RD	UPPER MARLBORO TWSP	BRANDYWINE	MD	20613	NONE	NFRAP
338	PRINCE GEORGES	WP BALLARD BLDG	10722 TUCKER ST	BELTSVILLE	MD	20705	NONE	NFRAP
459	QUEEN ANNES	TOM DODD SPORTING CLAYS SITE	620 TOM DODD FARM LN	QUEENSTOWN	MD	21658	NONE	NFRAP
425	SOMERSET	BEITZEL CABINET & MILLWORK INC	BROAD ST	PRINCESS ANNE	MD	21853	NONE	NFRAP
111	SOMERSET	CRISFIELD CITY DUMP	WATER ST	CRISFIELD	MD	21817	NONE	NFRAP
193	SOMERSET	CRISFIELD LIGHT & POWER CO	RT 413	CRISFIELD	MD	21817	NONE	NFRAP
129	SOMERSET	RING LF	MILLARD RD	WESTOVER	MD	21871	SOMERSET COUNTY LF, WESTOVER LF	NFRAP
287	SOMERSET	SHERWIN WILLIAMS RUBBERSET DIV	RT 413	CRISFIELD	MD	21817	NONE	NFRAP
130	SOMERSET	WESTOVER LF	ARDEN STATION RD	WESTOVER	MD	21871	WESTOVER LF #2, SOMERSET COUNTY LF	NFRAP
185	ST MARYS	CALIFORNIA DRUM SITE	ST ANDREWS CHURCH RD	CALIFORNIA	MD	20619	NONE	NFRAP
364	ST MARYS	GENSTAR STONE PRODUCTS	RT 235	HOLLYWOOD	MD	20636	NONE	NFRAP
057	ST MARYS	PATUXENT RIVER NAVAL AIR STATION	BUTT RIFLE RANGE LF	PATUXENT	MD	20670	USN NAVAL AIR STATION LF	NPL
135	ST MARYS	SOUTHERN MARYLAND WOOD TREATING	STATE RT 235	HOLLYWOOD	MD	20686	NONE	NPL
256	ST MARYS	SPRINGER SEPTIC SERVICES	8 & CHAPTICO HWY RD	CHAPITCO	MD	20621	NONE	NFRAP
252	ST MARYS	ST MARYS SALVAGE			MD		NONE	UI
375	ST MARYS	ST MARYS SALVAGE	ST MARYS INDUSTRIAL PARK	ST MARYS	MD	20686	NONE	NFRAP
101	ST MARYS	THIOLKOL CORP MECHANICSVILLE	RT 235	MECHANICSVILLE	MD	20659	NONE	NFRAP
324	ST MARYS	USN NAVAL ELECTRONICS SYS ENG ACT	VILLA RD OFF RT 5	ST INGOES	MD	20684	NONE	NFRAP
415	TALBOT	DOC NAT'L MARINE FISHERIES SERV	SOUTH MORRIS ST EXT	OXFORD	MD	21654	NONE	UI
199	TALBOT	EASTON GAS & LIGHT CO	1 S WEST ST	EASTON	MD	21601	NONE	NFRAP
281	TALBOT	EASTON UTILITIES COMM MUNI ELE	219 N WASHINGTON S	EASTON	MD	21601	NONE	NFRAP
282	TALBOT	EASTON UTILITIES COMM POWER PL	AIRPORT INDUSTRIAL PARK	EASTON	MD	21601	NONE	NFRAP
125	TALBOT	NOBLE MOTOR REBUILDERS	N AURORA ST	EASTON	MD	21601	NONE	NFRAP
346	WASHINGTON	ANGSTROHM PRECISION INC	1 PRECISION PL	HAGERSTOWN	MD	21740	NONE	NFRAP
442	WASHINGTON	CENTRAL CHEMICAL	40 N JOHNATHAN ST	HAGERSTOWN	MD	21740	NONE	NFRAP
302	WASHINGTON	CENTRAL CHEMICAL CORP	MITCHELL AVE	HAGERSTOWN	MD	21741	NONE	NPL
396	WASHINGTON	CERTAIN TEED METALS	WASHINGTON COUNTY INDUSTRIAL	WILLIAMSPORT	MD	21795	NONE	NFRAP
094	WASHINGTON	CHEVRON CHEMICAL CO - WILLIAMSPORT	S ON RT 11	WILLIAMSPORT	MD	21795	NONE	NFRAP
298	WASHINGTON	CHEWVILLE CO-OP	MAIN ST	CHEWVILLE	MD	21721	NONE	NFRAP
397	WASHINGTON	DANZER METAL WORKS CO	2000 YORK RD	HAGERSTOWN	MD	21740	NONE	NFRAP
056	WASHINGTON	FAIRCHILD REPUBLIC CO PLANT 11	SHOWALTER RD	HAGERSTOWN	MD	21740	FAIRCHILD LAND DISPOSAL, FAIRCHILD REPUBLIC CO, - PLANT 12	NFRAP
475	WASHINGTON	FRANKLIN SPICKLER PROPERTY SITE	RT 63 (GREENCASTLE PK) & MT	MAUGANSVILLE	MD	21740	NONE	UI
350	WASHINGTON	GENUINE PARTS CO - RAYLOCK DIV.	100 RAYLOCK DR	HANCOCK	MD	21750	NONE	NFRAP
194	WASHINGTON	HAGERSTOWN - AMERICAN LIGHT & HEAT CO	SPRUCE ST	HAGERSTOWN	MD	21740	NONE	NFRAP
341	WASHINGTON	HAGERSTOWN - BROADFORDING RD	CEARFOSS & BROADFORDING RD	HAGERSTOWN	MD	21740	NONE	NFRAP
246	WASHINGTON	HAGERSTOWN LIGHT & HEAT CO	SOUTH LOCUST ST	HAGERSTOWN	MD	21740	NONE	NFRAP

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247	WASHINGTON	HAGERSTOWN LIGHT & HEAT CO	W WASHINGTON ST	HAGERSTOWN	MD	21740	NONE	NFRAP
036	WASHINGTON	KOPPERS CO HAGERSTOWN PLT	100 CLAIR ST	HAGERSTOWN	MD	21740	NONE	NFRAP
329	WASHINGTON	NEWELL ENTERPRISES INC	PO BOX 1157	HAGERSTOWN	MD	21740	NONE	NFRAP
348	WASHINGTON	RUST-OLEUM CORP	INTERSTATE INDUSTRIAL PARK	WILLIAMSPORT	MD	21795	NONE	NFRAP
400	WASHINGTON	SUN CHEMICAL CORP - GPI DIV	INDUSTRIAL LN	WILLIAMSPORT	MD	21795	NONE	NFRAP
151	WASHINGTON	WD BYRON & SONS INC	312 N CONOCOCHIEAGUE	WILLIAMSPORT	MD	21795	DIVISION OF WALTER KIDDE & CO	NFRAP
418	WASHINGTON	WEST MANUFACTURING CO	910 ELDRIDGE DR	HAGERSTOWN	MD	21740	NONE	NFRAP
321	WICOMICO	ADAMS CO & SON INC	NORTHWOOD DR & ARLINGTON RD	SALISBURY	MD	21801	NONE	NFRAP
243	WICOMICO	ATLANTIC WOOD INDUSTRIES	OLD EDEN RD	FRUITLAND	MD	21826	NONE	NFRAP
300	WICOMICO	BLACKWATER SOLID WASTE TRANSFER STATION	WALLER RD	SALISBURY	MD	21801	NONE	NFRAP
374	WICOMICO	CHESAPEAKE SHIPBUILDERS INC	710 FITZWATER ST	SALISBURY	MD	21801	NONE	NFRAP
093	WICOMICO	CHEVRON CHEM CO - SALISBURY	125 BATEMAN RD	SALISBURY	MD	21801	NONE	NFRAP
275	WICOMICO	DRESSER INDUSTRIES	124 WEST COLLEGE AVE	SALISBURY	MD	21801	NONE	NFRAP
047	WICOMICO	GIRGCO WASTE OIL RECYCLING INC		SHARPTOWN	MD	21861	GRIGCO	NFRAP
044	WICOMICO	KOPPERS CO SALISBURY	QUANTICO RD	SALISBURY	MD	21801	SALISBURY PLT	NFRAP
237	WICOMICO	LONG-LIFE TREATED WOOD INC	OLD RAILROAD RD	HEBRON	MD	21830	NONE	NFRAP
377	WICOMICO	RIVER HARBOR DEVELOPMENT	RIVER HARBOR DRIVE EXTENDED	SALISBURY	MD	21801	NONE	NFRAP
327	WICOMICO	SALISBURY MARKETING INC	N SALISBURY BLVD & BRIDGEWA	SALISBURY	MD	21801	NONE	NFRAP
163	WICOMICO	SALISBURY TOWN GAS	520 COMMERCE ST	SALISBURY	MD	21801	NONE	NFRAP
186	WORCESTER	BERLIN LF		BERLIN	MD	21811	NONE	NFRAP
083	WORCESTER	BISHOP PROCESSING CO	BOX G	BISHOP	MD	21813	NONE	NFRAP
453	WORCESTER	CHESAPEAKE WOOD TREATING CORP	POCOMOKE	POCOMOKE CITY	MD	21851	NONE	NFRAP
376	WORCESTER	WEST OCEAN CITY LF	LEWIS RD	OCEAN CITY	MD	21811	NONE	NFRAP