

# **EXECUTIVE SUMMARY OF THE MDE ENFORCEMENT AND COMPLIANCE REPORT FOR FISCAL YEAR 1998**

This is the Maryland Department of the Environment's second annual enforcement and compliance report. Enforcement is one of MDE's core functions and in FY 1998 more than \$6.8 million was spent on salaries alone for 146 enforcement personnel. This report covers the Department's activities in state Fiscal Year 1998 (July 1997-June 1998). It includes information on 26 of the Department's enforcement and compliance programs in the Air, Waste and Water Administrations, as well as the Environmental Crimes Unit of the Attorney General's Office.

During this past fiscal year the Department made significant strides in advancing its comprehensive system performance measurement, beginning with the creation of a set of environmental indicators as part of the Performance Partnership Agreement with the EPA. The Department also drafted a series of efficiency measures under the Governor's Managing Maryland for Results initiative, and finally improved its system of enforcement output measurement in this report.

The Department is committed to being accountable for our work, and helping the public understand what we are doing and why we are doing it. Beyond being a simple report however, this document is part of our on going commitment to continuous process improvement. By developing a clear picture of our accomplishments and difficulties this year, we begin to develop a benchmark against which to measure our activities in future years. While we were satisfied with last year's report as a good start, there were many lessons learned in compiling last year's numbers. This year's effort seeks to make the numbers meaningful in the context of our mission to protect the environment for the people of Maryland, while at the same time preserving the State's economic base.

## **Departmental Enforcement Coordination**

Throughout FY 98 the enforcement and compliance workgroup continued refining the Department-wide enforcement reporting policy. The workgroup's effort to pull together diverse pieces of enforcement information from the three administrations and compile that data in an easily understood and uniform format was facilitated by a full time enforcement and compliance coordinator. In addition to working on this report, the group also participated in the process of creating a single Department-wide enforcement and compliance database. With the assistance of the workgroup and enforcement coordinator, the Department held two inspector forums in which inspection personnel received training in various aspects of multimedia enforcement. The Department remains committed to improving the manner in which enforcement data is collected and reported to the public.

## **The Enforcement and Compliance Process**

Understanding MDE's air, water and waste enforcement and compliance processes can be difficult. Each of the programs was 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, shutdowns, and in some cases, criminal sanctions. The use of a particular penalty is intended to reflect the severity of a violation.

#### **Environment Article Section 1-301(d)**

Environment Article Section 1-301(d) enacted in 1997 requires MDE to report specified information on 15 programs as well as the penalty dollars collected and deposited into several funds. In addition to the required information, this report also includes data about the Department's enforcement activity at facilities, which do not necessarily require a permit to operate, but which are subject to regulation under the Environment Article. The Department has voluntarily elected to provide this information so that the legislature, our stakeholders, and the public get the most complete picture of how the Department performs its enforcement responsibilities.

#### **Performance Measures**

The reader of this year's report will notice that the format in which we are presenting our numbers has changed from last year's report. Although last year's report was a good first effort, our goal was to extract common statistical data for all of MDE's enforcement programs and provide information which could be tracked from one year to the next. The three different charts and sets of definitions employed last year proved to be more cumbersome and complicated than necessary. This year's single chart format is further explained on page 20. We have reduced the number of definitions necessary understand the meaning of the numbers and all programs are now counting the same set of general categories of information. A simple line by line comparison with last year's report is a little more difficult as a result of the change but it is still possible. In order to assist the reader we have included graphic charts that compare the number of inspections, enforcement actions, and compliance rates between FY 1997 and FY 1998. We do not intend to change our chart format next year so a line by line comparison of this year's numbers with next year's numbers should be possible. In this fashion we hope to have a solid statistical baseline against which our stakeholders and others can measure the Department's enforcement performance as we enter the Twenty-first Century.

#### **Environmental Crimes**

The Attorney General's Environmental Crimes Unit (ECU) is a small unit of the Criminal Investigations Division of the Attorney General's Office. Maryland State Troopers assigned to the unit conduct criminal investigations of environmental violations and, when appropriate, the Attorney General's prosecutors file criminal charges against the offender. Typically, criminal prosecution is resorted to as a last recourse for the worst and most recalcitrant offenders. During FY 1998, out of the 124 complaints processed for review by ECU to consider possible investigation leading to criminal charges, 61 came from MDE administrations. From the complaints, ECU opened 79 criminal investigations. Twenty-three prosecutions were commenced during the year by the filing of criminal charges. Twenty-nine prosecutions reached conclusion during the year, with criminal courts imposing fines approaching \$118,000 and jail terms totaling over 7 years, in addition to other penalties.

#### **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. MDE is a regulatory agency with an enforcement component. Our goal is to ensure improvements in environmental quality and to protect public health and the environment.

**Following are Executive Summaries for the Department and each Administration.**

## Maryland Department of the Environment Performance Measures Executive Summary

	1998 Totals
<b>PERMITTED SITES/FACILITIES</b> Number of Permits/Licenses issued Number of Permits/Licenses in effect at Fiscal Year End	8,972 54,668
<b>OTHER REGULATED SITES/FACILITIES</b> (other sites)	89,863
<b>INSPECTIONS</b> Number of Sites Inspected Number of Inspections, Audits, Spot Checks	31,026 81,372
<b>ENFORCEMENT ACTIONS</b> Number of Compliance Assistance Rendered Number of Enforcement Actions Taken	15,837 1,134
<b>PENALTIES</b> Amount of Administrative or Civil Penalties obtained	\$1,145,731*
*Amount of revenue obtained ("collected") in FY 98 as a result of enforcement actions.	

### Section 1-301(d) Penalty Summary

<b>TOTAL AMOUNT OF MONEY AS A RESULT OF ENFORCEMENT ACTIONS AS OF THE END OF FY 1998 AS REQUIRED BY SECTION 1-301(d)</b>	<b>TOTAL</b>
Clean Air Fund (includes Air Quality and Asbestos)	\$492,670
Clean Water Fund	\$284,237
Hazardous Substance Control Fund	\$88,594
Non-tidal Wetland Compensation Fund	\$0
Oil Disaster Containment Clean Up and Contingency Fund	\$101,948
Recovered from Responsible Parties (under §7-221)	\$96,508
Sewage Sludge Utilization Fund	\$57,000
<b>Total</b>	<b>\$1,120,957*</b>
*Only includes those funds required to be reported by the Environment Article, Section 1-301(d).	

## Air and Radiation Management Administration Executive Summary

The Air and Radiation Management Administration has three areas of program responsibility. These are Ambient Air Quality, Asbestos, and Radiation. One general trend noted for ARMA in FY 1998 was the increase in compliance assistance actions. This is attributable to an increased focus on documenting these types of activities in FY 1998.

In the Air Quality Compliance Program, ARMA's strategy for FY 1998 was to focus resources on those stationary sources of air pollution with the most potential for air pollution and risk of impact to public health and the environment. For tracking purposes, stationary sources of air pollution are divided into high-impact and low-impact sources. In FY 1998, compliance rates remained high, with a 99% compliance rate for low-impact sources and 98% for high-impact. Total inspections increased slightly in FY1998, as did the number of high-impact enforcement actions. Enforcement actions at low-impact facilities showed a substantial increase over FY 1997 due to the uncovering of additional violations at these facilities. Penalties collected in FY 1998 also increased due to the additional enforcement cases, as well as several larger settlements associated with some of the cases.

In the Asbestos Program, inspection activity was relatively consistent from FY 1997 to FY 1998. The asbestos compliance rate dropped slightly in FY 1998. The number of asbestos enforcement actions also declined.

In the Radiation Machines Program, efforts in FY 1998 were directed at maintaining inspection frequencies. Therefore, follow-up activities did not occur as frequently as necessary to verify timely correction of violations. As such, a backlog in the area of follow-up has developed. To address this matter, an evaluation of tasks and available resources has been conducted to determine means to meet the established inspection frequencies and conduct adequate follow-up activities with existing resources. As part of this evaluation, options such as increasing resources through a shifting of staff, hiring additional staff on a short-term basis, prioritizing follow up activities and adjusting inspection frequencies were considered. Recommendations arising from the evaluation are in the process of being implemented.

## Air and Radiation Management Administration Performance Measures Executive Summary

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	1,740
Number of Permits/Licenses in effect at Fiscal Year End	26,286
<u>OTHER REGULATED SITES/FACILITIES</u> (other sites)	4,516
<u>INSPECTIONS</u>	
Number of Sites Inspected	4,140
Number of Inspections, Audits, Spot Checks	9,444
<u>ENFORCEMENT ACTIONS</u>	1,169
Number of Compliance Assistance Rendered	46
Number of Enforcement Actions Taken	
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$544,520

## Waste Management Administration Executive Summary

The Waste Management Administration has focused considerable efforts on cross training the inspection staff in the past year as well as improving data collection methods. On the surface, the statistics for the Waste Management Administration show some significant increases in FY 98 as compared to FY 97. The number of inspections, audits and spot checks increased from 16,466 in FY 97 to 27,196 in FY 98, a difference of 10,730 additional inspections. The increase is attributed primarily to the 7,231 inspections reported in the Oil Pollution Remediation Program. Inspection data for this program was not fully captured for FY 97. The remaining increase is primarily due to the increase in enforcement activity in the Lead Poisoning Prevention Program. The Lead Program's activities are also largely responsible for the 2,783 increase in the number of sites inspected.

While the compliance profile showed little change (a 96% overall compliance rate in FY 97 vs. 97% in FY 98), the number of compliance assistance actions shows a significant increase over the previous year, increasing from 4,732 to 11,360. Among the lessons learned from last year included the need for better accounting of the administration's activities in this category. Therefore, each program has taken greater care to document their efforts this fiscal year.

Finally, the amount of administrative or civil penalties obtained increased from \$48,717 in FY 97 to \$276,909 in FY 98. This was predominantly a result of settlements for several large penalty cases.

## Waste Management Administration Performance Measures Executive Summary

	1998 Totals
<b><u>PERMITTED SITES/FACILITIES</u></b>	
Number of Permits/Licenses issued	1,149
Number of Permits/Licenses in effect at Fiscal Year End	6,022
<b><u>OTHER REGULATED SITES/FACILITIES</u></b> (other sites or regulated entities)	
	84,079
<b><u>INSPECTIONS</u></b>	
Number of Sites Inspected	15,674
Number of Inspections, Audits, Spot Checks	27,196
<b><u>ENFORCEMENT ACTIONS</u></b>	
Number of Compliance Assistance Rendered	11,360
Number of Enforcement Actions Taken	743
<b><u>PENALTIES</u></b>	
Amount of Administrative or Civil Penalties obtained	\$276,909

## Water Management Administration Executive Summary

During FY '98 the Water Management Administration concentrated on areas for improvement over the previous year. The first change was that WMA emphasized the documentation of its multi-media inspections. During FY'97, WMA learned that multi-media inspections were being performed, however, there was a lack of documentation for some of the sites. This year, if an inspected site had active multiple permits for different activities, each permit was identified, and comments specific to each approval were contained in the inspection reports. As a result, the "Number of Sites Inspected" and the "Number of Inspections" increased.

The second area of improvement or change from the previous year was to report the number of record reviews as "Inspections, Audits, Spot Checks". Groundwater and surface water discharge permits require the permittee to self-monitor the discharge and report the results of that monitoring to the Department. The review of these submitted self-monitoring reports requires staff time and often result in the initiation of enforcement actions. This review of the self-monitoring reports constitutes a major function of the Enforcement Division and, therefore deserves an accounting.

The most noticeable change in this report from the previous year's report is the combination of the Stormwater Management Section with the Erosion and Sediment Control section. The rationale for this change is that at the state level, these projects are reviewed and approved as one project. For all state and federally funded projects, plan review and approval for stormwater management and for sediment control is performed by the Nonpoint Source Program, and inspections for stormwater management and sediment control are performed by the Compliance Program. Conversely, all non-state/nonfederal funded projects are reviewed at the local level, and if delegated, inspected at the local level. For non-delegated jurisdictions, the MDE Compliance Program performs sediment control inspections.

## Water Management Administration Performance Measures Executive Summary

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u> Number of Permits/Licenses issued Number of Permits/Licenses in effect at Fiscal Year End	6,083 22,360
<u>OTHER REGULATED SITES/FACILITIES</u> (other sites)	1,268
<u>INSPECTIONS</u> Number of Sites Inspected Number of Inspections, Audits, Spot Checks	11,212 44,732
<u>ENFORCEMENT ACTIONS</u> Number of Compliance Assistance Rendered Number of Enforcement Actions Taken	3,308 345
<u>PENALTIES</u> Amount of Administrative or Civil Penalties obtained	\$324,302

## THE ENFORCEMENT AND COMPLIANCE WORKGROUP

**D**uring Fiscal Year 1998, the Enforcement and Compliance Workgroup has continued to provide department-wide communication between air, waste, and water programs. The group has focused the Department's attention on several important issues of enforcement philosophy, and provided a forum in which those issues can be discussed and clarified. Specifically, during FY 98 the workgroup has:

- Developed a "decision tree" which describes, in general terms, the process used to decide what constitutes a significant violation. Each program makes the decision concerning the significance of a given violation after considering a number of factors including among other things the nature of the actual violation ( e.g. quantity and type of pollutant involved), the applicable legal or regulatory standard, the violation's actual or potential impact, the willfulness of the violator, the violator's past record, and Departmental or programmatic goals.
- Participated in drafting the enforcement component of the Performance Partnership Agreement with EPA;
- Given substantial attention to the most effective use of various enforcement tools to achieve Departmental goals and establishing valid performance measures to gauge *how well* the Department is doing in addition to simply counting *what* the Department is doing;
- Contributed to the development of the general compliance portion of the MDE Department wide database template; and
- Conducted two inspector forums that provided training as well as an opportunity for inspectors to provide feedback and input into improving the effectiveness of the Department's enforcement and compliance efforts.

At the present time, the workgroup is focusing its attention on developing a more statistically valid method for determining the compliance rate of the regulated community. In this report the compliance rate is rather crudely determined by simply dividing the number of facilities with significant violations by the total number of facilities inspected. This method is a good starting point but it does not reflect a valid sampling of the regulated community. Often facilities are inspected in response to complaints or because they are due to be inspected. A more reliable determination of overall compliance rates would require us to inspect a representative random sampling of the facilities under the jurisdiction of the program. While statistically more satisfying, this method raises the resource issue of how to accomplish the representative random inspections while at the same time completing the required scheduled inspections that the Department is already under an obligation to conduct, as well as the specifically targeted or complaint driven inspections. The workgroup is exploring ways to improve our assessment of compliance rates and other performance indicators using the resources presently available to the Department. More information about the Department's comprehensive system of environmental goals and performance measurement is found in the *Future of Enforcement and Compliance* section of this report.

The workgroup collectively compiled the statistics and information contained in this annual report. It was responsible changing the chart format in an effort to clarify the presentation of the Department's performance measures. The workgroup's current members are:

**Arthur Ray**, Office of the Secretary, Chair

**Bernard Penner**, Office of the Secretary

**Quentin Banks**, Office of Communications

**Tom Boone**, Water Management Administration

**Frank Courtright**, Air and Radiation Management Administration  
**Jack Bowen**, Water Management Administration  
**Horacio Tablada**, Waste Management Administration  
**Gerry Gietka**, Waste Management Administration  
**Roland Fletcher**, Air and Radiation Management Administration  
**Paul Stancil**, Office of the Attorney General, Environmental Crimes Unit  
**Dave Pushkar**, Water Management Administration  
**Dave Lyons**, Water Management Administration  
**Bob Daniel**, Environmental Permits Service Center  
**Denise Ferguson Southard**, Office of the Attorney General  
**Mel Knott**, Technical and Regulatory Services Administration

*Report Managers:*

**Bernard Penner**, Enforcement and Compliance Coordinator  
**Cathy Wagenfer**, Office of the Secretary



## MDE'S ENFORCEMENT AND COMPLIANCE ROLE

### MDE'S MISSION

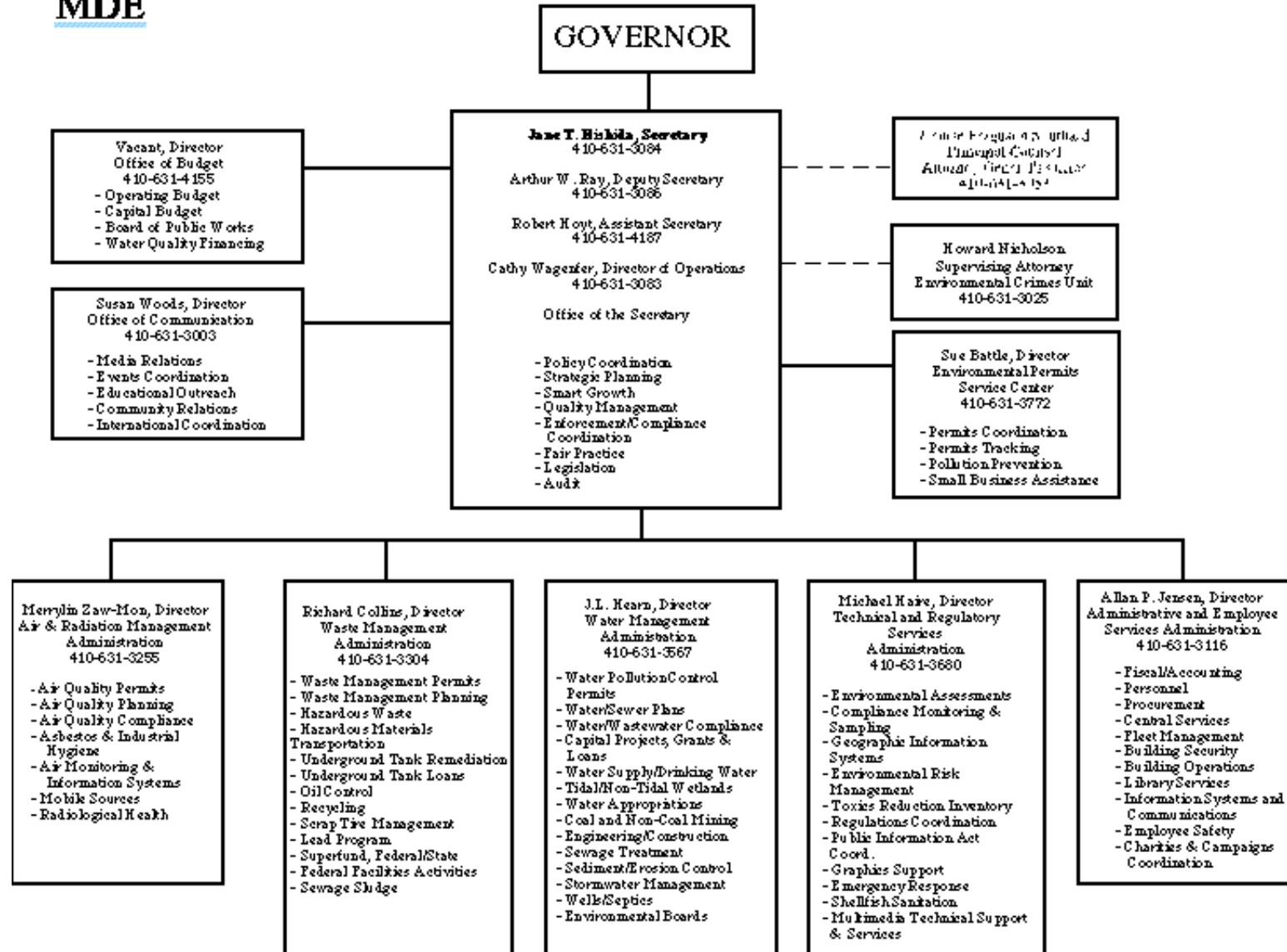
**M**DE's mission is to protect and restore the quality of Maryland's air, land, and water resources, while fostering economic development, healthy and safe communities, and quality environmental education for the benefit of the environment, public health, and future generations. MDE's vision is to ensure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

### ENFORCEMENT WORKFORCE

	FY 1998 Actual*	Number of FTE Inspectors**	Number of FTE Inspector Vehicles***
Water Management Administration	\$2,995,649	61	0
Waste Management Administration	\$4,896,251	43	4
Air & Radiation Administration	\$1,912,886	42	2
Total	\$6,804,786	146	6
<p>* 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.</p> <p>**Inspectors represent 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.</p> <p>***FTE vacancies represent the total amount of time that positions were vacant equivalent to a full year. This can be more or less than 6 positions vacant depending upon the total amount of time a position is vacant.</p> <p>FTE = Full Time Equivalent</p>			



# MARYLAND DEPARTMENT OF THE ENVIRONMENT



# 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](http://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.

## **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.*

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.

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 willfully, 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 AND COMPLIANCE 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 1998 MDE had 26 distinct environmental enforcement programs.

The development of common policies across programs is 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 24. 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, audit, record review, or spot check. The purpose of such activity 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 constitute 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 it is mailed.

**POST-INSPECTION EVALUATION:** At some point, either while the inspector is on the site or at a later date the Department reviews the inspector's findings to determine whether the facility is in compliance with applicable requirements. The need to review findings also arises through other 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 concerning the seriousness of the violation. 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.

**MINOR VIOLATIONS:** Sometimes a violation is discovered that is minor 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.

Minor violations should not be confused with technical violations. Technical violations are often significant. For example, technical violations involving radiation or asbestos are frequently counted as "*significant*". An intentional falsification of self-monitoring reports is considered

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. If a minor violation results in a Report of Observation, or similar document, it is not reported in this report as a violation. Many documented minor violations are tracked under the category of Compliance Assistance.

**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, non-compliant behavior
- An offense that requires a significant amount of time or capital to correct
- A violation deemed significant under federal criteria

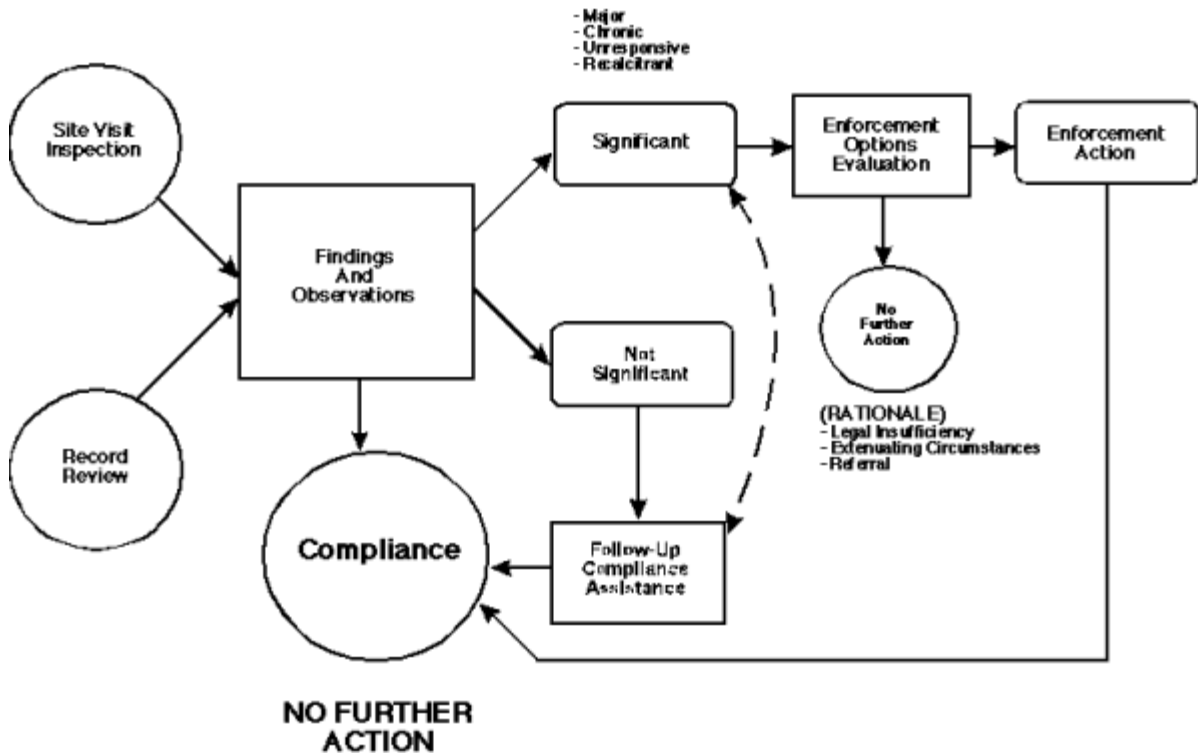
**EVALUATION OF ENFORCEMENT OPTIONS:** Once a violation has been deemed significant, it generally follows that enforcement action is warranted. An evaluation of the available enforcement options is conducted to determine the most appropriate course of conduct given the particulars of the situation. Generally 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)
- Or in some circumstances no action

Some programs have specific sanctions spelled out in law. The enforcement option that 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 rare occasions where circumstances require the Department to decline taking further action. It may be that upon a review of the available evidence, the Department's case is found to be too weak, or is precluded by statute of limitations, or other legal defense. It is also possible that a case is more appropriately pursued by a federal oversight agency such as the EPA.

## ENFORCEMENT PROCESS





# **ENFORCEMENT AND COMPLIANCE PERFORMANCE MEASURES**

## **RESULTS BY ADMINISTRATION**



**AIR AND RADIATION MANAGEMENT  
ADMINISTRATION**

insert ARMA org chart

# 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 of these sources emit more than 95% of all the pollutants emitted from stationary sources. These 200 high-emitting sources and an additional 400+ priority sources are the primary focus of this program. The 400+ priority sources are selected due to concerns regarding potential emissions, toxic air pollutant emissions, potential for nuisance impact, impact on the general welfare, or are considered to have the potential for significant risk to public health or the environment. Combined, this group of more than 600 sources include facilities such as large industrial operations, paper mills, asphalt plants and incinerators. The remainder of the 10,000 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, performance measures information is presented in two categories, *High Impact Air Emission Facilities* and *Low Impact Air Emission Facilities*.

## AUTHORITY

FEDERAL: Clean Air Act, Title I, Section 110

STATE: Environment Article, Title 2; COMAR 26.11

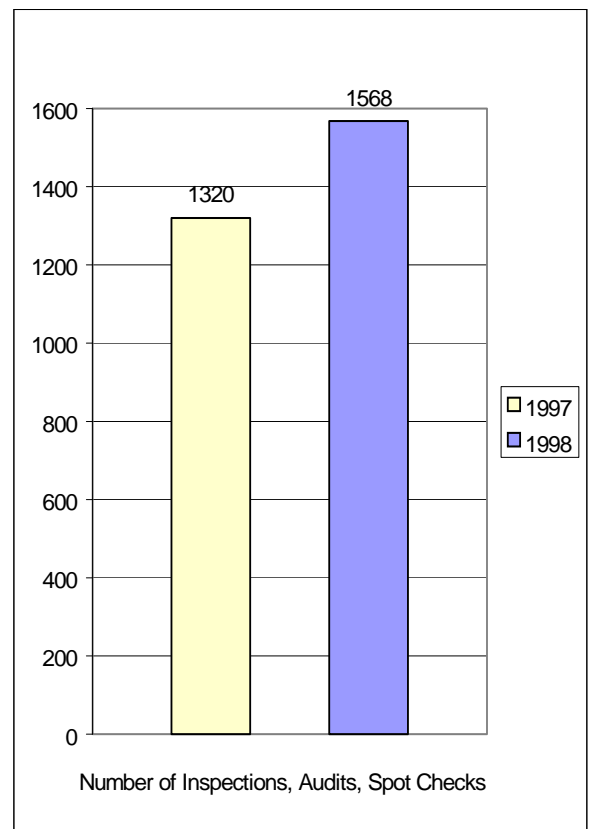
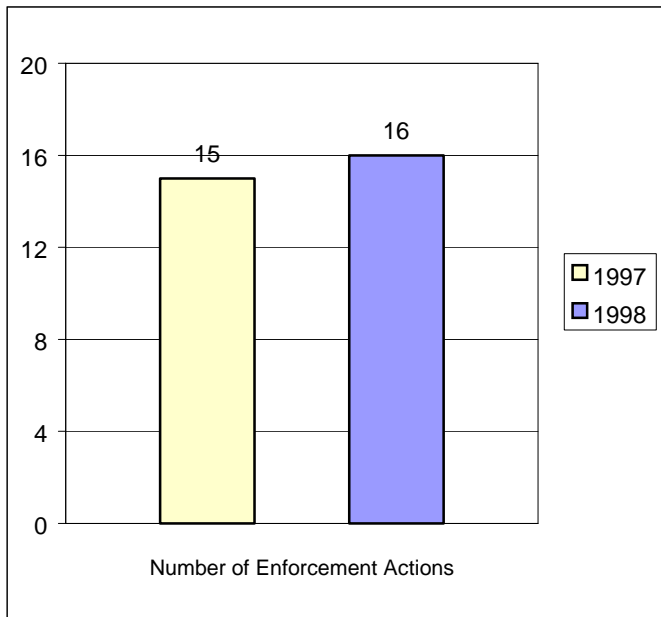
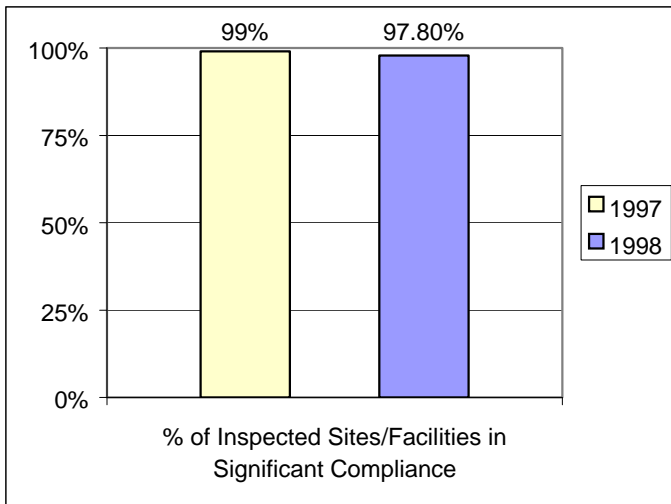
## PROCESS

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.

# Ambient Air Quality Control High Impact Facilities

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	626
Number of Permits/Registrations issued	346
Number of Permits/Registrations in effect at Fiscal Year End	4657
<u>OTHER REGULATED SITES/FACILITIES</u>	
None	
<u>INSPECTIONS</u>	
Number of Sites Inspected	454
Number of Inspections, Audits, Spot Checks	1568
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	10
% of Inspected Sites/Facilities in Significant Compliance	97.80%
% of Inspected Sites/Facilities with Significant Violations	2.20%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	12
Number of Significant Violations based on Technical/Preventative Deficiencies	5
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	7
Total	24
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	3
Ongoing	21
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	121
Number of Show Cause, Remedial, Corrective Actions Issued	8
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	8
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$436,900

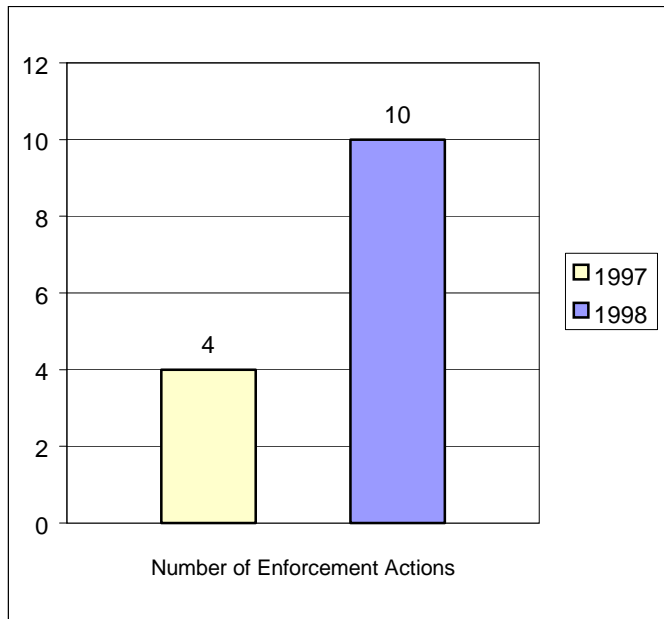
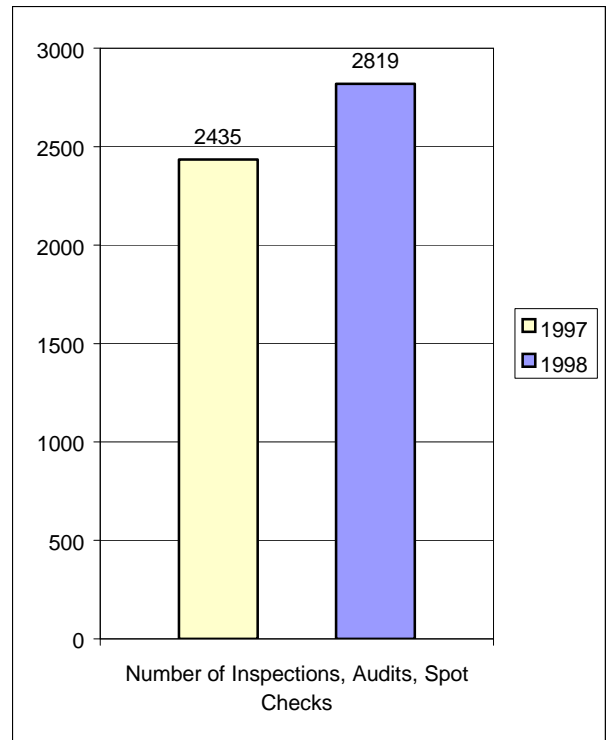
# Ambient Air Quality Control High Impact Facilities



# Ambient Air Quality Control Low Impact Facilities

<u>PERMITTED SITES/FACILITIES</u>	1998 Totals
	9813
Number of Permits/Registrations issued	553
Number of Permits/Registrations in effect at Fiscal Year End	16403
 <u>OTHER REGULATED SITES/FACILITIES</u>	
None	
 <u>INSPECTIONS</u>	
Number of Sites Inspected	485
Number of Inspections, Audits, Spot Checks	2819
 <u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	6
% of Inspected Sites/Facilities in Significant Compliance	99%
% of Inspected Sites/Facilities with Significant Violations	1%
 <u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	3
Number of Significant Violations based on Technical/Preventative Deficiencies	3
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	37
Total	43
 <u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	13
Ongoing	30
 <u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	49
Number of Show Cause, Remedial, Corrective Actions Issued	4
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	6
Number of referrals to Attorney General for possible Criminal Action	0
 <u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$33,750

# Ambient Air Quality Control Low Impact Facilities





# Air Quality Complaints

## PURPOSE

In addition to the approximately 10,000 registered or permitted sources of air emissions in Maryland, there are numerous potential 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 nuisance conditions such as odors or fugitive dust. 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, but will be addressed to reduce nuisance conditions to neighbors or communities.

## AUTHORITY

STATE: Environment Article, Title 2; COMAR 26.11

## PROCESS

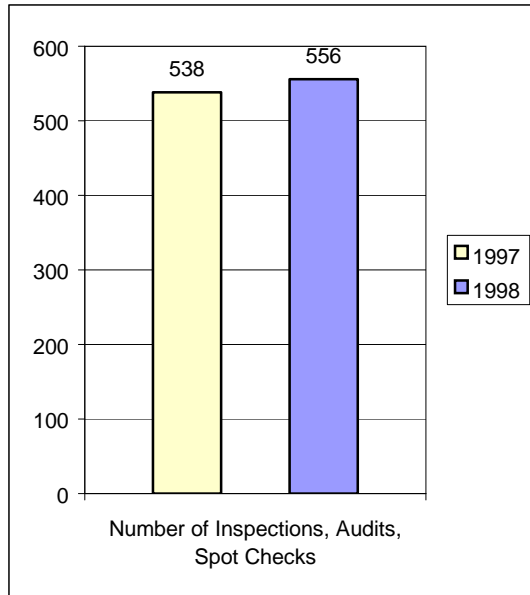
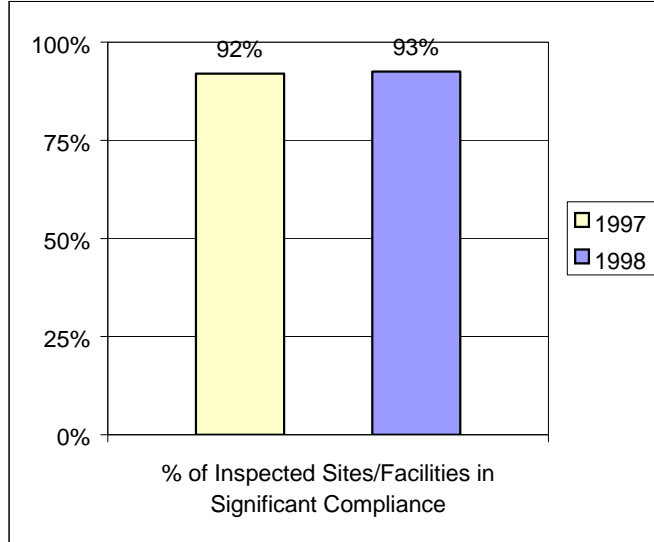
Complaints are addressed in a number of ways. A complaint situation may be of sufficient severity to warrant an immediate site visit. Complaints arising from severe nuisance situations generally result in the Department receiving multiple and separate complaints for a single situation. A complaint situation can also be a sporadic occurrence, which may lead 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. If the complaint investigation reveals a violation at a permitted site, the violation and subsequent enforcement action is counted under the ambient air quality control program's performance measures chart.

Only those violations which occur at non permitted sites are counted here. Most violations in this category are related to open burning activities or the creation of off-site nuisances caused by odors or dust from sites. 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 are resolved without the need to take enforcement action, as they generally relate to short-lived activities, are quickly corrected (often at the time of inspection), do not reoccur, and result in no actual harm to public health or the environment.

# Air Quality Complaints

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	n/a
Number of Permits/Licenses in effect at Fiscal Year End	n/a
<u>OTHER REGULATED SITES/FACILITIES</u>	
Complaints received at all sites	996
Complaints received at unregistered/unpermitted sites	705
<u>INSPECTIONS</u>	
Number of Sites Inspected	307
Number of Inspections, Audits, Spot Checks	556
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	23
% of Inspected Sites/Facilities in Significant Compliance	92.50%
% of Inspected Sites/Facilities with Significant Violations	7.50%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	25
Number of Significant Violations based on Technical/Preventative Deficiencies	7
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	1
Total	33
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	33
Ongoing	0
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	71
Number of Show Cause, Remedial, Corrective Actions Issued	0
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	0
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$0

# Air Quality Complaints



# Asbestos

## **PURPOSE**

The Asbestos and Industrial Hygiene Program manages the licensing of asbestos removal contractors and 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. All projects are subject to additional 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

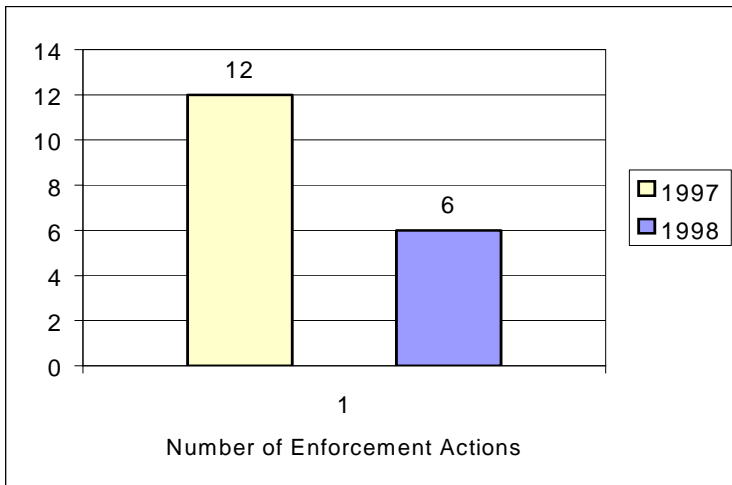
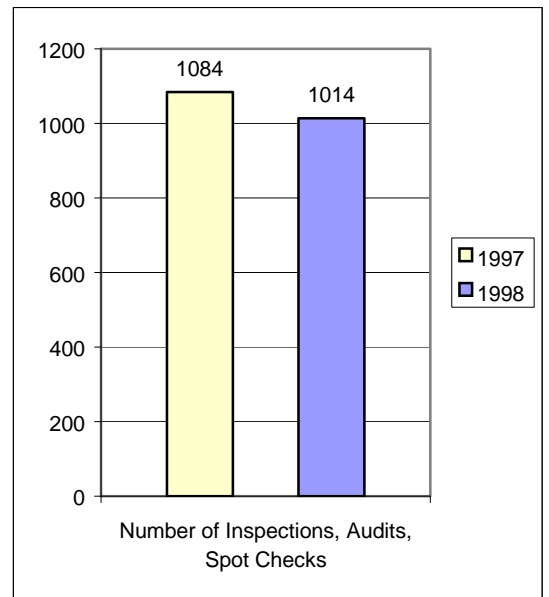
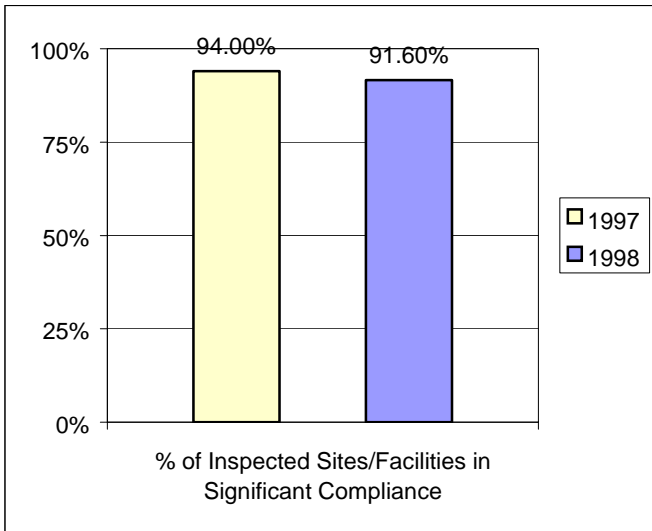
## **PROCESS**

Removing or encapsulating asbestos is required to be done by a contractor licensed by MDE for such purposes. 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 the 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.

# Asbestos

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	n/a
Number of Permits/Licenses in effect at Fiscal Year End	n/a
<u>OTHER REGULATED SITES/FACILITIES</u>	
Number of contractor licenses issued in FY 98	207
Number of licenses in effect at fiscal year end	204
Number of asbestos removal notifications received	3218
<u>INSPECTIONS</u>	
Number of Sites Inspected	675
Number of Inspections, Audits, Spot Checks	1014
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	57
% of Inspected Sites/Facilities in Significant Compliance	91.6%
% of Inspected Sites/Facilities with Significant Violations	8.4%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	72
Number of Significant Violations based on Technical/Preventative Deficiencies	26
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	20
Total	118
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	96
Ongoing	22
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	71
Number of Show Cause, Remedial, Corrective Actions Issued	1
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	5
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$22,020

# Asbestos



# Radiation Machines Program

## PURPOSE

The Radiation Machines Program's charge is to regulate man-made electronic sources of radiation so as to minimize the amount of radiation exposure to the general public. These sources include dental and veterinary x-ray machines, mammography machines, radiation machines used in medical settings to diagnose or treat illnesses, and radiation emitting devices used in research or industry.

State regulations, which derive in part from federal statutory requirements, require that all radiation exposures be "As Low As Reasonably Achievable" (ALARA). Such a requirement is necessary, for radiation exposure in high dose rates or large quantities can cause adverse health effects. Radiation protection is based in part on the belief that receiving numerous small exposures over time may have a detrimental effect similar to receiving a single large exposure, since the radiation dose is cumulative. Consequently, this Program counts all violations in the table. Fortunately, documented human health impacts are rare, and the medical benefits of radiation diagnostic, therapy and treatment procedures far outweigh the potential risk of sustained biological damage. Nonetheless, it is prudent to take every reasonable precaution when dealing with radiation.

## AUTHORITY

FEDERAL: 21-CFR-1020; Radiation Control for Health and Safety Act;  
Mammography Quality Standards Act (October, 1997)

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

## PROCESS

Dental and veterinarian x-ray machines are inspected by the Department on a 3-year cycle. Under a contractual arrangement with the U.S. Food and Drug Administration (FDA), mammography machines in facilities certified by the FDA are inspected annually by the Radiation Machines Program. The mammography inspection reports are provided to FDA for follow up enforcement actions. Inspections of all radiation-emitting machines in hospitals, private medical or industrial facilities and academic institutions are performed by inspectors licensed by MDE. Licensing requirements include an education and a health physics experience element. Inspection priorities for these machines are based on the type of the machine, with inspection intervals ranging from 1 to 3 years. Following MDE's review and approval of an inspection report from an MDE-licensed inspector, the inspected machine is issued a certification by MDE. An inspection in any of the program categories below involves testing the accuracy and intensity of the radiation beam, testing the accuracy of the dosage timer, and checking for proper film development procedures. A review of operator credentials and adherence to safety procedures may also be included as part of an inspection.

# Radiation Machines Program

Following an inspection, appropriate follow-up is conducted to determine whether any violations uncovered during the inspection are corrected in a timely manner. Violations that are not corrected in a reasonable timeframe (30 to 45 days) are targeted for issuance of a

Notice of Violation. Egregious violations and those that remain uncorrected following issuance of a Notice of Violation are targeted for enforcement action.

The chart below shows the types of facilities, listed in terms of radiation machine type or purpose, that regulated by MDE and the frequency at which they are inspected.

Facility Type	Registered Machines* (X-ray Tubes)	Inspection Frequency
High Energy & Particle Accelerators	63 Machines	Annual
Hospitals	942 Machines, (1135 Tubes)	Biennial
Physicians: MD, GP, Chiropractic, Podiatric	1573 Certified Machines, (1628 Tubes)	Biennial
Industrial & Government	355 Machines	Triennial
Industrial Radiography	36 Machines	Triennial
Dental	6820 Machines, 6952 Tubes	Triennial
Veterinary	441 Machines	Triennial
Mammography (179 MQSA)	220 Machines (220 Tubes)	Annual
Mobile Machines (23 Facilities)	1 Accelerator 48 Medical Machines 6 Industrial Radiography 3 Dental	Annual Biennial Triennial Triennial
Mammography FDA Inspected	7 Mammography	Annual

- Maryland regulations define machines as individual (x-ray tube) sources of radiation.

This is the first year that the two Radiation Programs performance measures were calculated separately. Therefore, graphic charts are not provided for this program.



# Radiation Machines Program

1998 Totals

PERMITTED SITES/FACILITIES

Number of New Facility Registrations Issued	336
Number of Facility Registrations in effect at Fiscal Year End	4632

INSPECTIONS

Number of Sites Inspected	1840 A
Number of Inspections, Audits, Spot Checks	3051

COMPLIANCE PROFILE:

Number of Inspected Sites/Facilities with Violations	1107
% of Inspected Sites/Facilities in Significant Compliance	71% B/D
% of Inspected Sites/Facilities with Significant Violations	29% C/D

VIOLATIONS

Number of Sites with Violations found in FY98	1107
Number of Sites with Violations carried over awaiting disposition from Previous Fiscal year	2211
Total Number of Sites with Violations	3318 D

DISPOSITION OF VIOLATIONS

Resolved	2360 B
Ongoing	958 C

ENFORCEMENT ACTIONS

Number of Compliance Assistance rendered	707
Number of Show Cause, Remedial, Corrective Actions Issued	5
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	1
Number of referrals to Attorney General for possible Criminal Action	0

PENALTIES

Amount of Administrative or Civil Penalties obtained	\$4,000
------------------------------------------------------	---------

- A. Number includes 179 mammography sites.
- B. Total of 2360 sites with resolved violations (681 from FY 98 and 1679 from prior FYs)
- C. Total 958 sites with ongoing violations (426 from FY 98 and 532 from prior FYs)
- D. Total 3318 sites reviewed with violations (1107 from FY 98 and 2211 from prior FYs)

# Radiation – Radioactive Materials

## Purpose

The Radioactive Material Licensing and Compliance Division (RAMLCD) controls the use and handling of radioisotopes in order to protect the health and safety of radiation workers and the public, and minimize radioactive contamination of the environment. Facilities that use and handle radioactive materials are hospitals, private medical practices, manufacturers, industries, research and development firms, academic institutions, nuclear pharmacies, and distributors of sealed sources. The Department issues specific licenses to these facilities based on the nature and use of the radioisotopes, the training and experience of the facility's Radiation Safety Officer and radioactive material users and the sufficiency of the radiation safety program submitted.

## Authority

FEDERAL: Atomic Energy Act of 1954  
STATE: Environment Article, Title 8, Subtitle 1; COMAR 26.12

## Process

The Department conducts inspections of the above facilities in order to determine compliance with the Maryland radiation regulations and the license conditions. Inspections may be performed over a 1-4 day period by one inspector or a team of inspectors, depending upon the complexity of the license. Inspection frequency ranges from quarterly, which is unique to Maryland due to the presence of Neutron Products, Incorporated (the only cobalt-60 teletherapy source manufacturer in the nation), up through 5 years. The frequencies of these inspections are determined by the quantity and toxicity of the radioisotopes, the potential radiation hazards resulting from the radioactive material use, and the nature of the facility itself. Inspections focus on a review of Maryland radiation regulations, the conditions of the specific license and the licensee's adherence to radiation safety procedures and practices.

Additionally, the Department conducts investigations throughout Maryland where complaints regarding radiation safety at licensed facilities or worksites have been received or the Department has learned that a facility relocated without proper notification. Finally, the Department responds to emergencies such as transportation accidents involving radioisotopes, and is also prepared to respond and assist with nuclear power plant accidents. Each year the Department participates in an exercise involving a mock accident at either the Calvert Cliffs Nuclear Power Plant or Peach Bottom Atomic Station to test the Department's preparedness for responding to a nuclear accident.

This is the first year that the two Radiation Programs performance measures were calculated separately. Therefore, graphic charts are not provided for this program.

## Radiation – Radioactive Materials

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	505
Number of Permits/Licenses in effect at Fiscal Year End	594
<u>OTHER REGULATED SITES/FACILITIES</u>	
Sources from Other Jurisdictions	389
<u>INSPECTIONS</u>	
Number of Sites Inspected	379
Number of Inspections, Audits, Spot Checks	436
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	179
% of Inspected Sites/Facilities in Significant Compliance	88%
% of Inspected Sites/Facilities with Significant Violations	12%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	0
Number of Significant Violations based on Technical/Preventative Deficiencies	504
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	0
Total	504
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	498
Ongoing	6
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	150
Number of Show Cause, Remedial, Corrective Actions Issued	0
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	0
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$47,850



**WASTE MANAGEMENT  
ADMINISTRATION**

INSERT ORGANIZATION

# Environmental Restoration And Redevelopment Program

## PURPOSE

The purpose of this program is to protect public health and the environment by identifying sites that are either contaminated or are potentially contaminated by controlled hazardous substances. Once identified, the sites are prioritized for remedial activities. The sites are then listed on the State Master List and the Disposal Site Registry.

## AUTHORITY

FEDERAL: Comprehensive Environmental Response, Compensation and Liability Act  
STATE: Environment Article, Title 7. Subtitle 2; COMAR 26.14

## PROCESS

The State Master List identifies sites that are either contaminated or are potentially contaminated. The Department conducts environmental assessments that include investigation and sampling of sites to determine whether remediation is necessary. If necessary, remedial activities include cleanup of sites contaminated with controlled hazardous substances. Assessments are conducted based on available resources. The Disposal Site Registry ranks those sites that are the highest in priority for investigation and remedial action based on the federal hazard ranking system score.

Controlled Hazardous Substances Program	Number of Sites
State Master List (7-223 (a))	426
Disposal Site Registry (7-223(f))	16
Intended number of preliminary assessments of State Master List sites	6

The total amount of money collected during FY 98 from responsible parties as a result of cost recovery under 7-221 is \$96,508. Please note that the enforcement for the sites under this program comes 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 (TSD) facility permits. The Program assists the U.S. Environmental Protection Agency in the review, issuance and monitoring of Corrective Action 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

## **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.

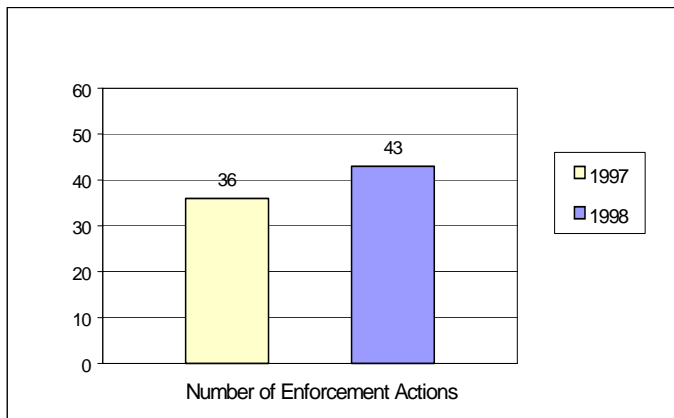
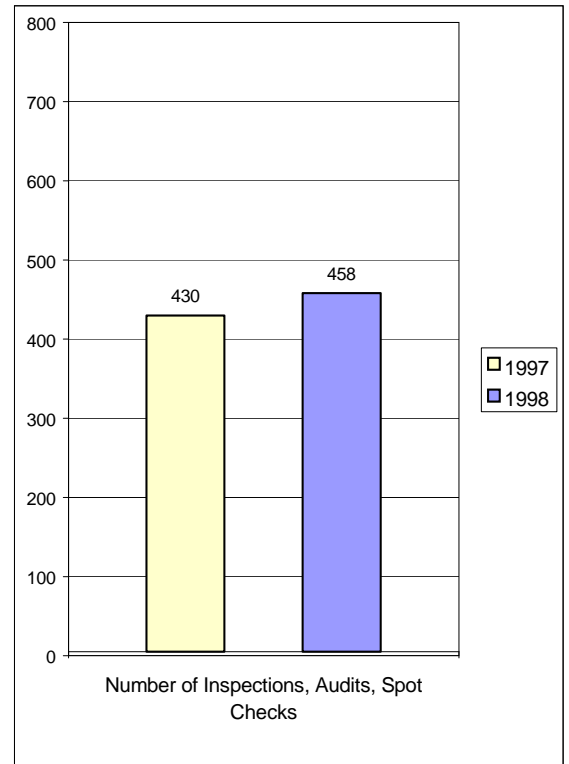
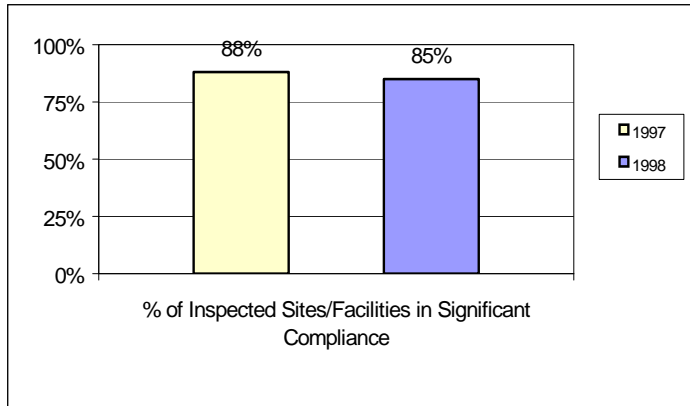
# Hazardous Waste

	1998 Total
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	6
Number of Permits/Licenses in effect at Fiscal Year End	27
<u>OTHER REGULATED SITES/FACILITIES</u>	
Number of Generators and Haulers	8,962
<u>INSPECTIONS</u>	
Number of Sites Inspected	329
Number of Inspections, Audits, Spot Checks	458
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	49
% of Inspected Sites/Facilities in Significant Compliance	85%
% of Inspected Sites/Facilities with Significant Violations	15%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	8
Number of Significant Violations based on Technical/Preventative Deficiencies	49
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year*	9
Total	66
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	58
Ongoing	8
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	24
Number of Show Cause, Remedial, Corrective Actions Issued	2
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	41
Number of referrals to Attorney General for possible Criminal Action	12
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$88,594

\* Number of ongoing violations reported in last annual report was 41. This was incorrect.



# Hazardous Waste



# Lead Poisoning Prevention

## **PURPOSE**

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

## **AUTHORITY**

FEDERAL: Toxic Substances Control Act

STATE: Environment Article, Title 6, Subtitles 8 & 10; COMAR 26.16 and Environment Article, Title 7, Subtitle 2; COMAR 26.02

## **PROCESS**

Affected properties (rental dwelling properties) must meet a risk reduction standard at turnover. MDE Accredited contractors carry out inspections and lead paint services. Accreditation and oversight of inspectors/contractors is a multi step process. Attendance at multiple day training sessions is required. In addition, contractors must show evidence of fulfilling an experience requirement and submit a protocol to MDE for the work they are being accredited to perform. Review courses are required every two years.

Property registration is required to identify the stock of available rental housing that has been certified as having met the risk reduction standard. Owners of affected properties must renew the registration 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 the administration of the program.

Maryland law requires that all blood lead level test results be reported to MDE. MDE in turn reports all results for children considered at risk to the local Health Departments for case management.

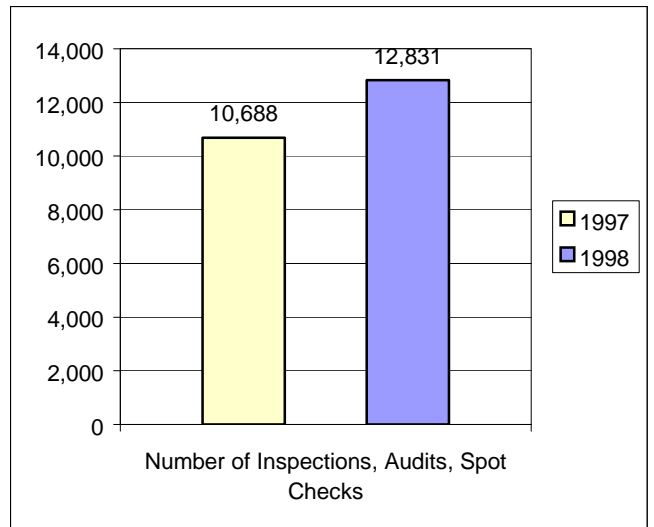
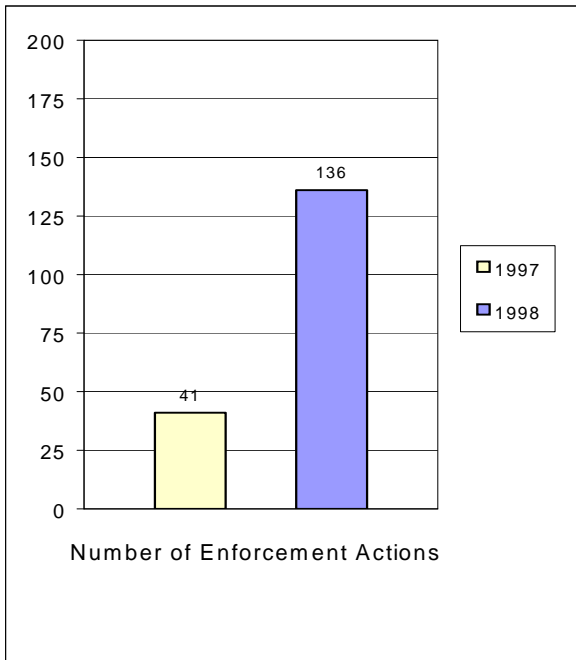
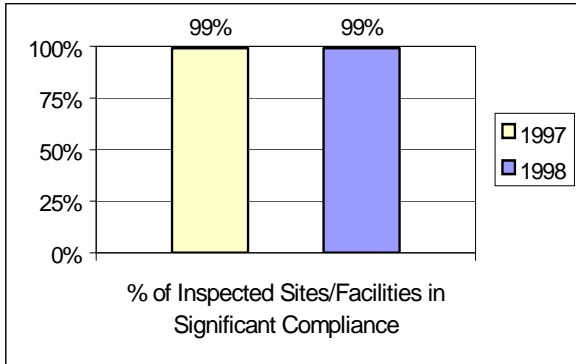
The Maryland Lead Risk Reduction in Housing law has now been in effect in some form since 1994. The numbers of registered properties have not matched the number of rental properties projected from the 1990 census data. In an effort to ensure compliance, the focus of the program has been shifting from earlier efforts stressing outreach and education toward enforcement and compliance.

# Lead Poisoning Prevention

	1998 Total
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	n/a
Number of Permits/Licenses in effect at Fiscal Year End	n/a
<u>OTHER REGULATED SITES/FACILITIES</u>	
Rental Dwelling Units Registered this FY	5,454
Total Rental Dwelling Units in Registered Properties	122,149
Affected Properties Registered as of end of FY	62,141
Total number of Accreditations in effect as of end of FY*	2,240
<u>INSPECTIONS</u>	
Number of Sites Inspected	12,154
Number of Inspections, Audits, Spot Checks	12,831
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	90
% of Inspected Sites/Facilities in Significant Compliance	99%
% of Inspected Sites/Facilities with Significant Violations	1%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	49
Number of Significant Violations based on Technical/Preventative Deficiencies	41
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	33
Total	123
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	37
Ongoing	86
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	46
Number of Show Cause, Remedial, Corrective Actions Issued	82
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	54
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$12,065

\*This number includes Inspectors, Risk Assesors, Supervisors, Instructors, Courses of Instruction and Contractors involved in lead related activities in Maryland.

# Lead Poisoning Prevention



# Oil Aboveground Storage Tanks (AST)

## **PURPOSE**

The Oil Control Program performs a broad range of activities in regard to the safe handling, storage, and remediation of petroleum products across the State of Maryland. The Program, through engineers and support staff, issues permits and performs oversight for aboveground storage facilities and the transportation of oil products in Maryland. The Program also issues permits related to discharge activities, awards and audits licenses for the import of petroleum products into Maryland.

## **AUTHORITY**

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

## **PROCESS**

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

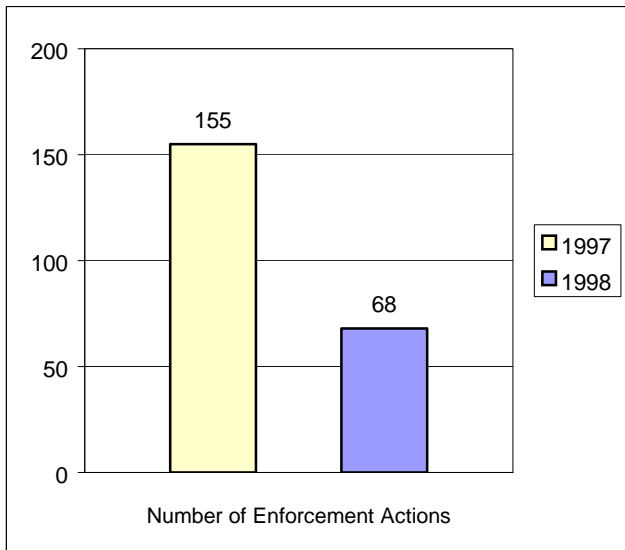
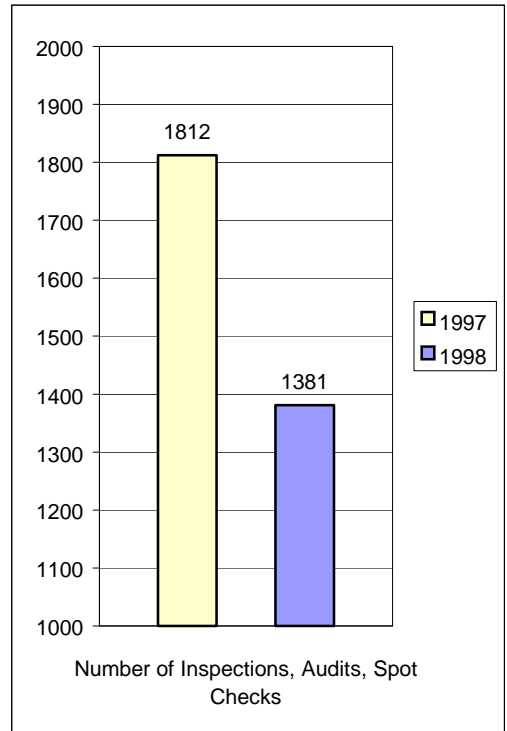
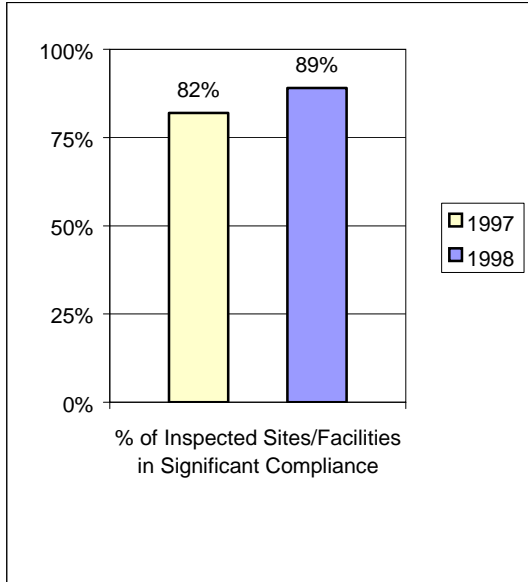
# Oil Aboveground Storage Tanks

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued*	750
Number of Permits/Licenses in effect at Fiscal Year End	1,641
<u>OTHER REGULATED SITES/FACILITIES</u>	
Spill Response to AST Sites Less Than Permitted Capacity	408
<u>INSPECTIONS</u>	
Number of Sites Inspected	602
Number of Inspections, Audits, Spot Checks	1,381
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	68
% of Inspected Sites/Facilities in Significant Compliance	89%
% of Inspected Sites/Facilities with Significant Violations	11%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	12
Number of Significant Violations based on Technical/Preventative Deficiencies	56
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	7
Total	75
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	51
Ongoing	24
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	1,313
Number of Show Cause, Remedial, Corrective Actions Issued	14
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions**	54
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$16,215

\*The number of permits and licenses issued and in effect greatly increased since the last report due to a difference in reporting definitions between the two years. The Program is now reporting all such activities to better reflect its true mission and the work being performed. For example, spills and transfer audits were not reported under this section last year.

\*\*There were 101 fewer enforcement actions this year compared to last. This decline is attributed to greater compliance achieved in the area of Oil Transfer Licenses reporting. Last year we saw a large number of companies not reporting or reporting incorrectly. Through enforcement and compliance activities, the Oil Control Program has been able to address many problems in this area.

# Oil Aboveground Storage Tanks



# Oil Contaminated Soil Operations

## **PURPOSE**

The Oil Contaminated Soil Operations Permit is issued to facilities within the State of Maryland that store and/or treat soil contaminated with petroleum product from underground storage tank leaks or surface spills.

## **AUTHORITY**

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

## **PROCESS**

Permits are issued to ensure that treatment and soil-handling processes are performed in a manner protecting public health, safety, and the environment.

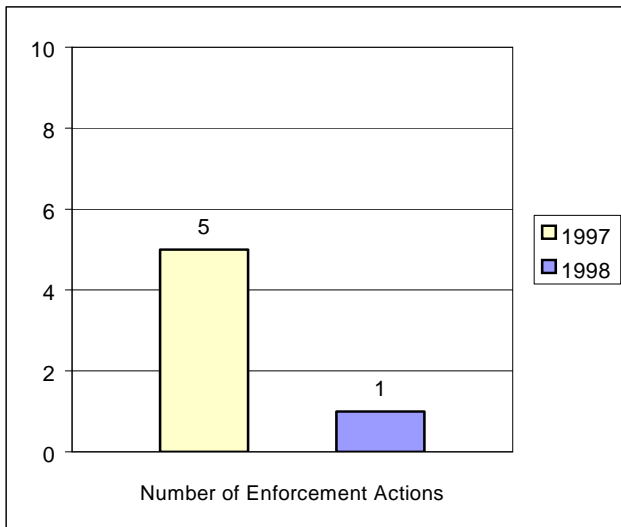
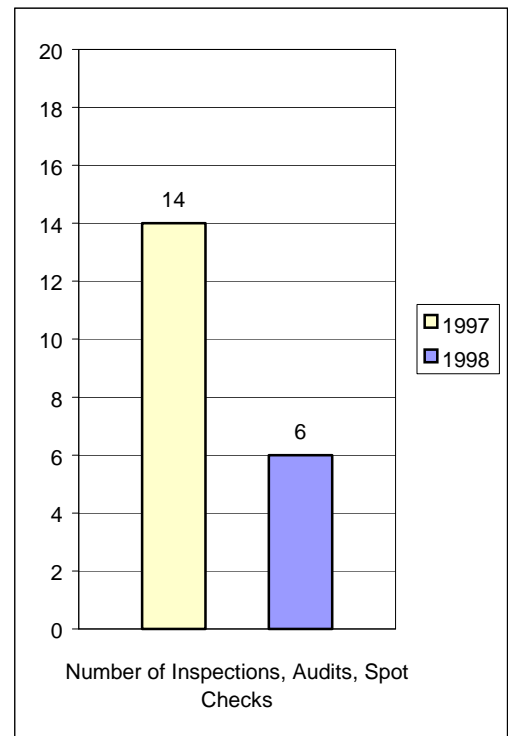
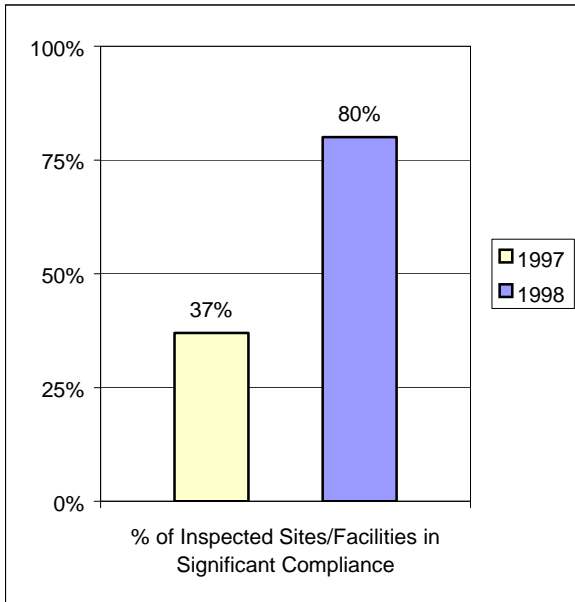
Due to the small number of facilities involved and the declining number of underground storage tanks being removed, as a result of the 1998 underground storage tank deadline, this is the last year these facilities will appear in a separate heading. These numbers will be incorporated into the Oil-Aboveground Storage numbers for Fiscal Year 1999.



# Oil Contaminated Soil Operations

	1998 Total
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	0
Number of Permits/Licenses in effect at Fiscal Year End	9
<u>OTHER REGULATED SITES/FACILITIES</u>	
None	
<u>INSPECTIONS</u>	
Number of Sites Inspected - active facilities (the other 4 are inactive or low volume)	5
Number of Inspections, Audits, Spot Checks	6
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	1
% of Inspected Sites/Facilities in Significant Compliance	80%
% of Inspected Sites/Facilities with Significant Violations	20%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	1
Number of Significant Violations based on Technical/Preventative Deficiencies	0
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	1
Total	2
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	2
Ongoing	0
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	6
Number of Show Cause, Remedial, Corrective Actions Issued	1
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	0
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$12,000

# Oil Contaminated Soil Operations



# Oil Pollution Remediation Activities

## PURPOSE

In addition to permitting, licensing and enforcement activities for facilities and underground storage tanks, the Oil Control Program oversees remediation activities at sites where petroleum products have been discharged from old underground storage tanks. These sites are referred to as "leaking underground storage tank" (LUST) sites. The oversight ensures that responsible parties remediate the site in a timely manner protecting the public's health and the environment. In fiscal year (FY) 1998, there were 2,834 Leaking Underground Storage Tank sites statewide. Discharges impacting soil or groundwater have occurred in each of these locations. These sites include for the most part gasoline service stations, both operating and closed out. They also include businesses that have their own petroleum distribution systems for use in vehicle fleets and even some heating oil systems. MDE approved remediation is being carried out in an environmentally protective manner at 95% of these sites.

## AUTHORITY

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

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

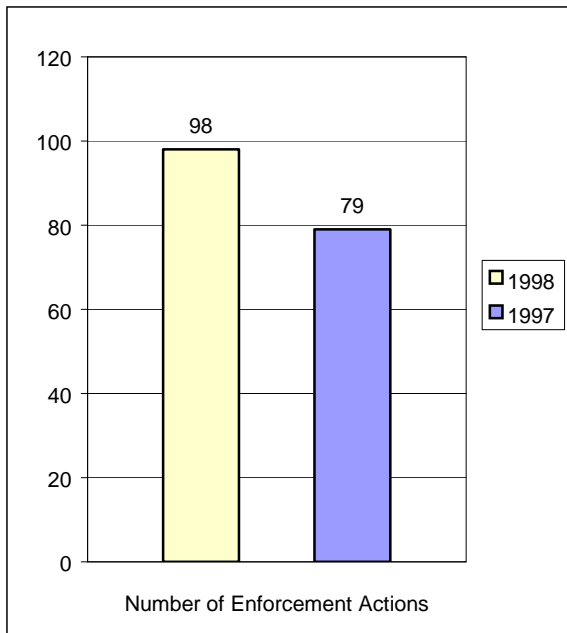
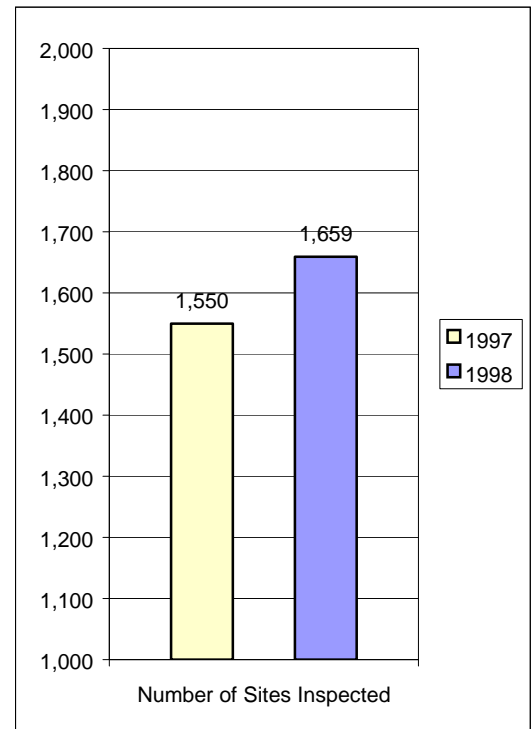
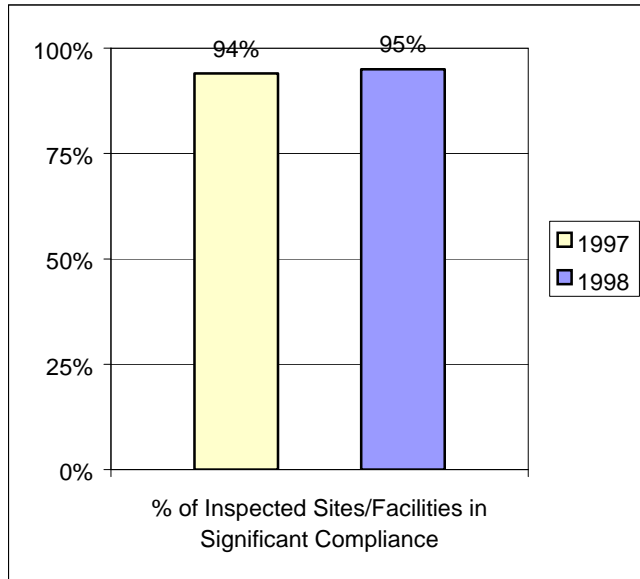
## PROCESS

LUST cleanups are technical in nature, usually requiring numerous site visits and meetings. When a release of petroleum product is reported to the Department, a team of specialists is assigned to investigate, supported by geologists. The team of specialists will prioritize the effort of response to the release based on product type, amount released and potential impacts from the release. Remediation generally includes removal of the contaminated soil and pumping and treating groundwater. Each site is in violation by virtue of the fact that a discharge has occurred. Inspection frequency is also 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. There are cases where the responsible party fails to perform the necessary steps to remediate the discharge. If enforcement action is warranted the action will be performed in accordance with Department guidelines and procedures.

# Oil Pollution Remediation Activities

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	n/a
Number of Permits/Licenses in effect at Fiscal Year End	n/a
<u>OTHER REGULATED SITES/FACILITIES</u>	
Identified locations where there is a leaking underground storage tank Discharges impacting soil or groundwater have occurred. MDE approved remediation being conducted in an environmentally protective manner	2,834
<u>INSPECTIONS</u>	
Number of Sites Inspected	1,659
Number of Inspections, Audits, Spot Checks	7,231
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	79
% of Inspected Sites/Facilities in Significant Compliance	95%
% of Inspected Sites/Facilities with Significant Violations	5%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	79
Number of Significant Violations based on Technical/Preventative Deficiencies	0
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	17
Total	96
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	17
Ongoing	79
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	7,152
Number of Show Cause, Remedial, Corrective Actions Issued	10
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	69
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$18,983

# Oil Pollution Remediation Activities



# Oil Underground Storage Tanks (UST)

## **PURPOSE**

The Oil Control Program is a preventative program that regulates activities associated with the storage of regulated substances in underground storage tanks throughout the State of Maryland. These sites range from the local neighborhood service station to churches, hospitals, schools, and military facilities.

## **AUTHORITY**

FEDERAL: Resource Conservation and Recovery Act - Subtitle I

STATE: Environment Article, Title 4, Subtitle 4; COMAR 26. 10.

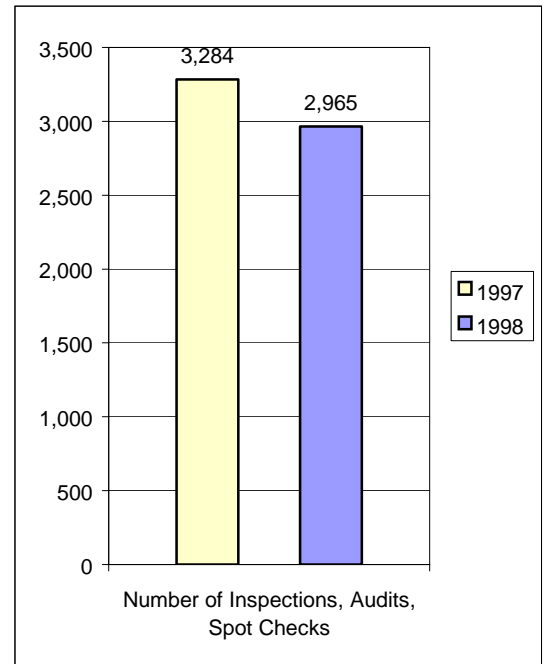
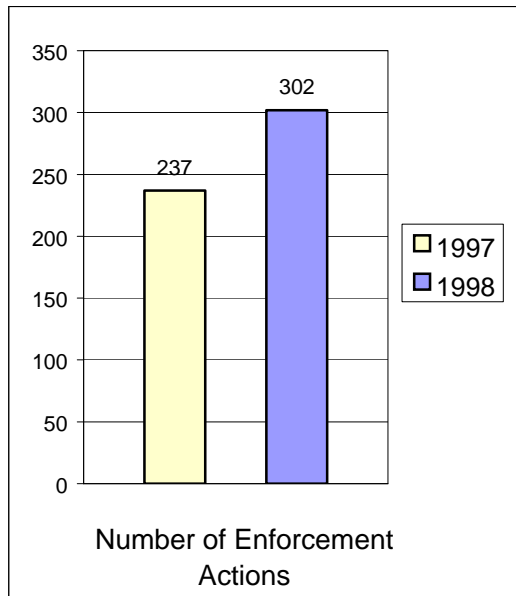
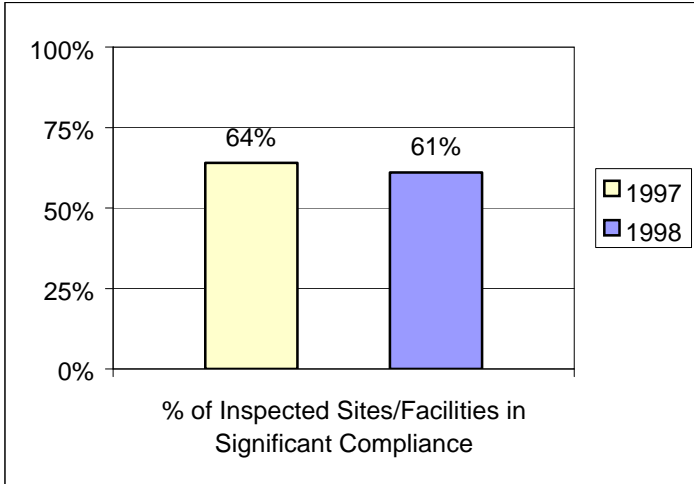
## **PROCESS**

The Program assists tank owners in the prevention of the release of regulated substances by ensuring compliance with detailed State and Federal regulations. These include release detection, corrosion and overfill prevention, insurance requirements, construction standards, and vapor recovery installation and operation. All regulated USTs in Maryland must be registered with the Department. A comprehensive database is maintained by the Program's Office of Resource Management. This database is scheduled to be available via the Internet in early 1999.

# Oil Underground Storage Tanks

	1998 Total
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	n/a
Number of Permits/Licenses in effect at Fiscal Year End	n/a
<u>OTHER REGULATED SITES/FACILITIES</u>	
Registered underground storage tank sites	12,485
<u>INSPECTIONS</u>	
Number of Sites Inspected	408
Number of Inspections, Audits, Spot Checks	2,965
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	160
% of Inspected Sites/Facilities in Significant Compliance	61%
% of Inspected Sites/Facilities with Significant Violations	39%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	0
Number of Significant Violations based on Technical/Preventative Deficiencies	302
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	7
Total	309
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	218
Ongoing	91
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	2,663
Number of Show Cause, Remedial, Corrective Actions Issued	15
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	287
Number of referrals to Attorney General for possible Criminal Action	1
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$54,750

# Oil Underground Storage Tanks





# Refuse Disposal

## **PURPOSE**

Improper handling of society's byproducts in the form of domestic, commercial and industrial wastes can pose direct threats to both the public health and the quality of Maryland's water resources. The Solid Waste Program is responsible for two important elements of environmental regulation: the review of the technical information needed to support application for new solid waste disposal facilities; and the inspection and enforcement of regulations at permitted and unpermitted disposal facilities. Regulated facilities include municipal sanitary landfills, rubble landfills, land clearing debris landfills, non-hazardous industrial waste landfills, municipal incinerators and waste-to-energy facilities, solid waste processing and composting facilities, and transfer stations.

## **AUTHORITY**

FEDERAL: Resource Conservation and Recovery Act - Subtitle D

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

## **PROCESS**

Permits are required for the construction and operation of solid waste acceptance facilities. These include landfills, transfer stations, processing facilities, and incinerators. The purpose of the permits is to insure that these facilities are designed and operated in a manner protective of public health and the environment. The permit review activities cover a broad range of environmental and engineering elements to insure that new facilities use state-of-the-art techniques to protect the state's surface water, ground water, air, and other natural resources. Routine unannounced inspections are performed several times per year at the permitted facilities to ensure compliance with the permits.

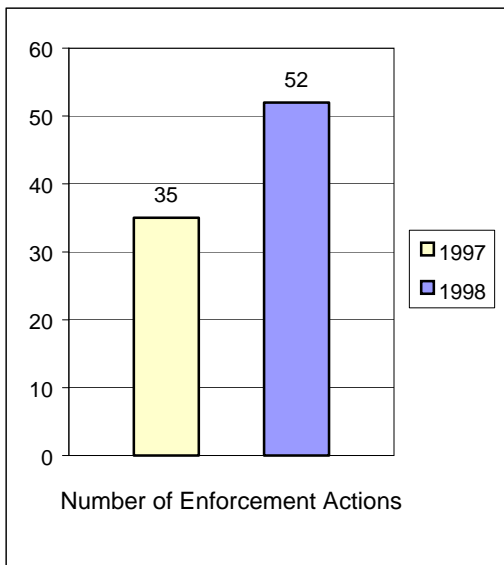
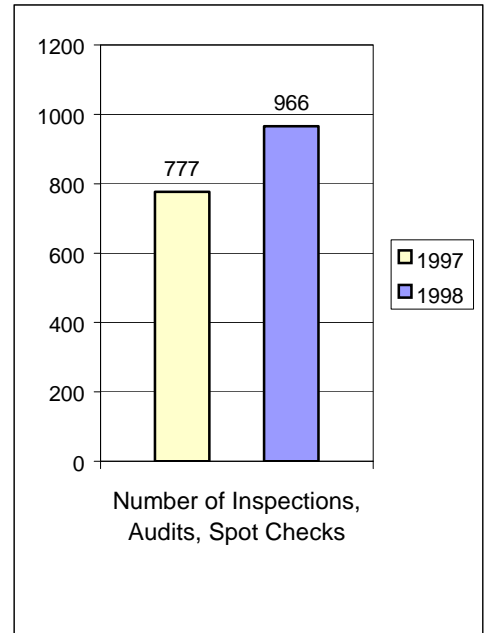
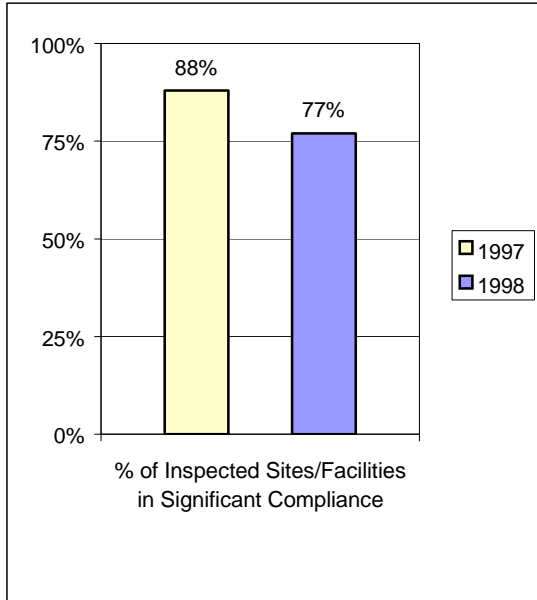
Inspectors also spend a large percentage of their time investigating complaints about unpermitted facilities, usually open dumps. The compliance staff performs inspections and investigations to find, stop and clean up illegal dumps and operational problems at permitted facilities. Typical problems requiring correction include: odor problems; soil erosion; discharges of pollutants to surface water; groundwater pollution; and inadequate cover leading to the propagation of potentially disease-bearing animals, such as rats, flies and mosquitoes. Corrective orders and penalties may be issued for violations.

Compliance activities also include environmental monitoring and remediation. Geologists and engineers review groundwater monitoring and soil gas data to detect aqueous or gaseous pollutants, which may be migrating through the ground from landfill and dumpsites. When releases are detected, plans for landfill caps and groundwater and gas extraction and treatment systems are developed. The plans are subject to review and approval by MDE technical staff prior to implementation and the installation and performance of these systems are evaluated.

# Refuse Disposal

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	8
Number of Permits/Licenses in effect at Fiscal Year End	78
<u>OTHER REGULATED SITES/FACILITIES</u>	
Unpermitted sites with ongoing violations	18
<u>INSPECTIONS</u>	
Number of Sites Inspected	205
Number of Inspections, Audits, Spot Checks	966
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	48
% of Inspected Sites/Facilities in Significant Compliance	77%
% of Inspected Sites/Facilities with Significant Violations	23%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	2
Number of Significant Violations based on Technical/Preventative Deficiencies	51
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	8
Total	61
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	43
Ongoing	18
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	100
Number of Show Cause, Remedial, Corrective Actions Issued	0
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	52
Number of referrals to Attorney General for possible Criminal Action	10
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$5,219

# Refuse Disposal



# Scrap Tires

## **PURPOSE**

Licenses are required for the hauling, collection, storage, processing, recycling and burning of scrap tires. These licenses ensure that scrap tires are managed in a manner protective of public health and the environment.

## **AUTHORITY**

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

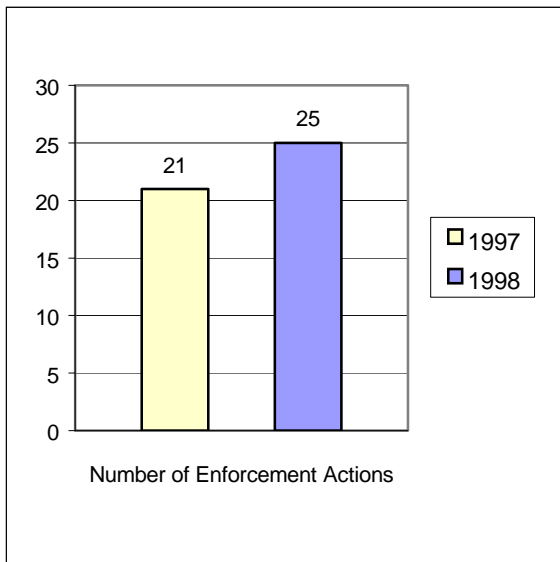
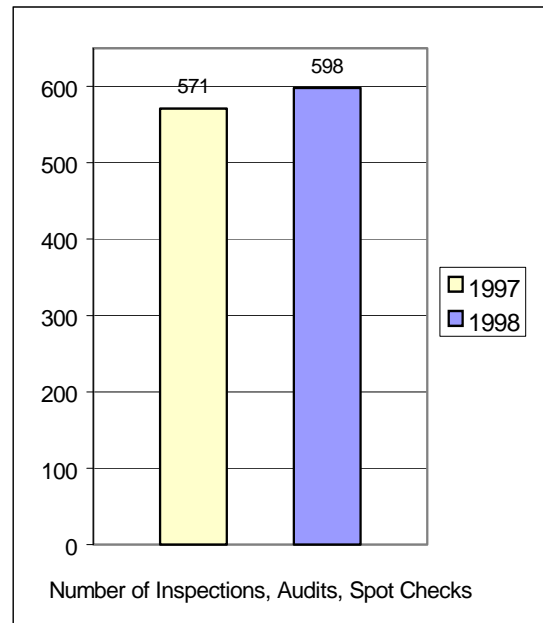
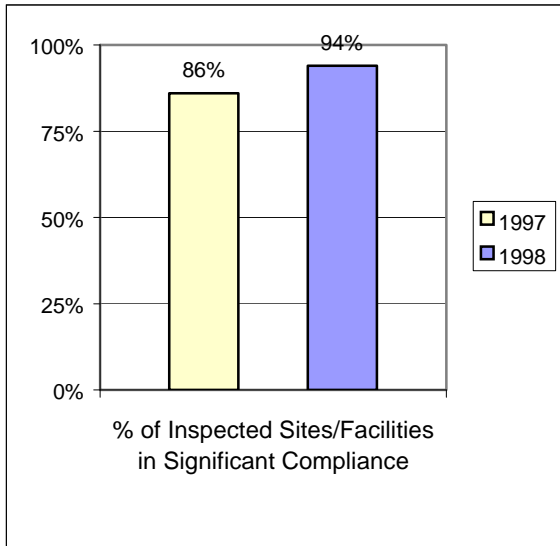
## **PROCESS**

The licensing system is intended to prevent the dumping of scrap tires. A State fund is available for cleaning up scrap tire dumps if the landowner fails to do this. If the fund is used for this purpose cost recovery is required. The landowner is billed for the amount of the cleanup. In general, larger scrap tire facilities are inspected more frequently than smaller ones. Routine inspections are performed unannounced. Inspectors also investigate citizen complaints about illegal dumping or handling of scrap tires. Corrective orders and penalties may be issued for violations.

# Scrap Tires

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	232
Number of Permits/Licenses in effect at Fiscal Year End	3,318
<u>OTHER REGULATED SITES/FACILITIES</u>	
Stockpiles to be cleaned up	62
<u>INSPECTIONS</u>	
Number of Sites Inspected	173
Number of Inspections, Audits, Spot Checks	598
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	11
% of Inspected Sites/Facilities in Significant Compliance	94%
% of Inspected Sites/Facilities with Significant Violations	6%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	1
Number of Significant Violations based on Technical/Preventative Deficiencies	10
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	1
Total	12
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	3
Ongoing	9
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	38
Number of Show Cause, Remedial, Corrective Actions Issued	5
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	20
Number of referrals to Attorney General for possible Criminal Action	1
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$10,000

# Scrap Tires



# 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

## **PROCESS**

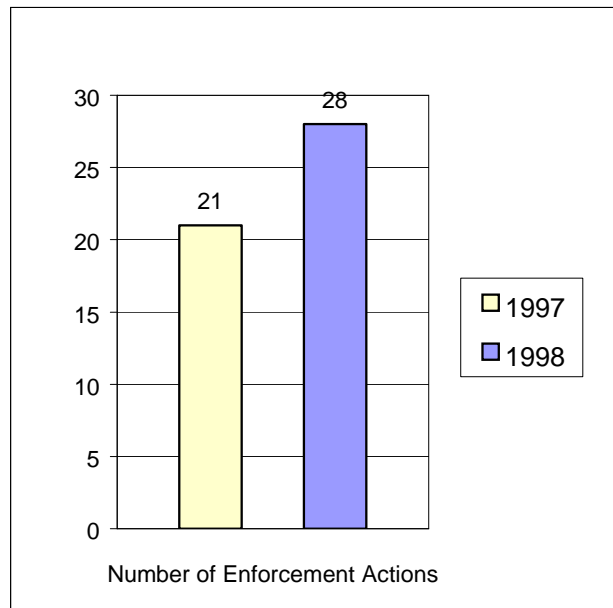
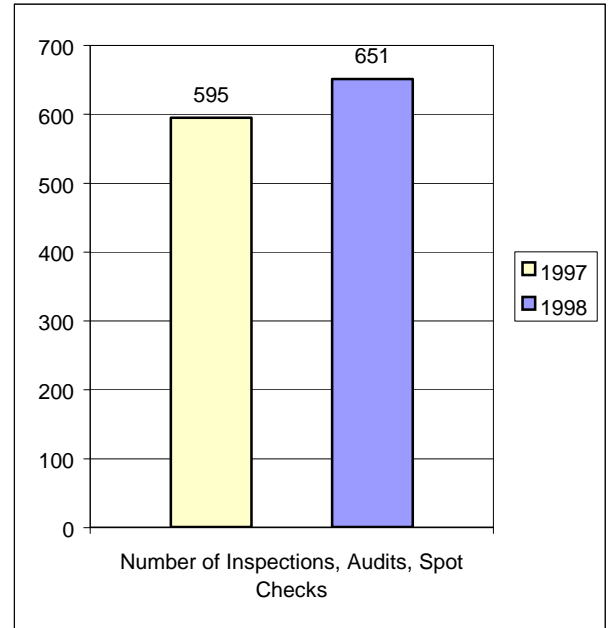
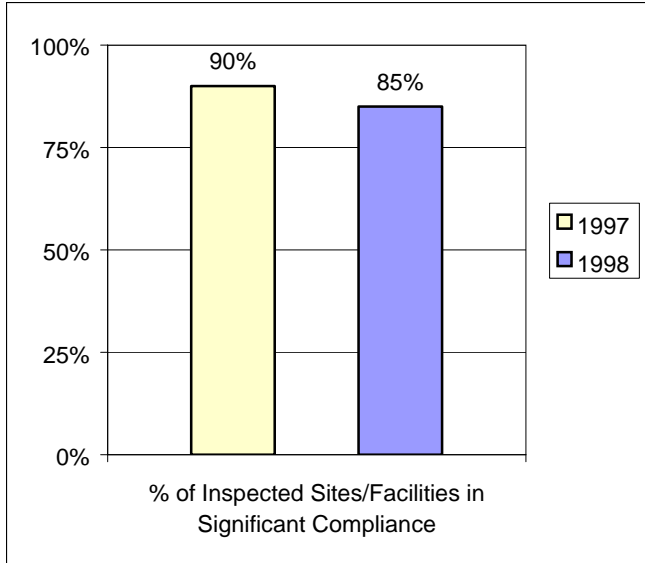
Composting facilities and pelletizers are inspected monthly. Storage facilities are inspected monthly when in use. Landfill disposal operations are inspected during the course of routine landfill inspections. Land application sites are inspected when the workload allows. The inspector may recommend corrective 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.

# Sewage Sludge Utilization

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	151
Number of Permits/Licenses in effect at Fiscal Year End	937
<u>OTHER REGULATED SITES/FACILITIES</u>	
none	
<u>INSPECTIONS</u>	
Number of Sites Inspected	124
Number of Inspections, Audits, Spot Checks	651
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	19
% of Inspected Sites/Facilities in Significant Compliance	85%
% of Inspected Sites/Facilities with Significant Violations	15%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	0
Number of Significant Violations based on Technical/Preventative Deficiencies	22
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	2
Total	24
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	24
Ongoing	0
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	11
Number of Show Cause, Remedial, Corrective Actions Issued	2
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	26
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$57,000



# Sewage Sludge Utilization



# Wood Waste Recycling

## **PURPOSE**

The purpose of the permits is to ensure that natural wood wastes are managed in a manner protective of public health and the environment. In particular, the permitting system is intended to prevent large scale fires at these facilities.

## **AUTHORITY**

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

## **PROCESS**

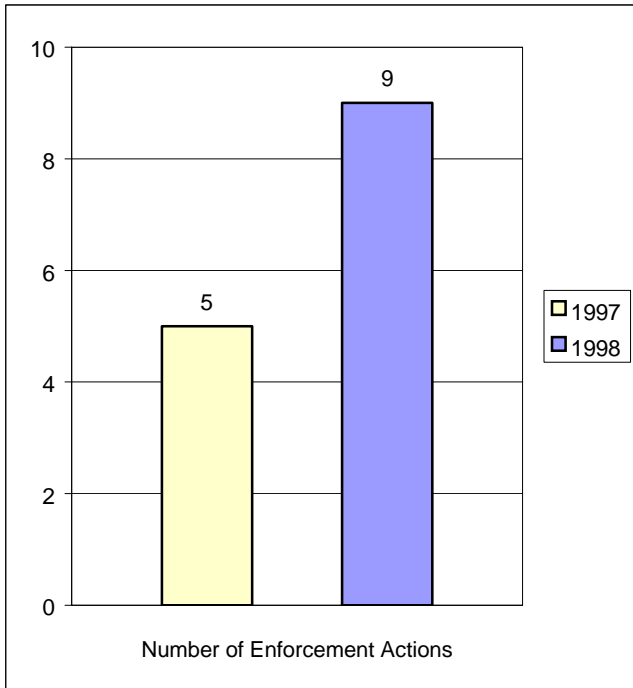
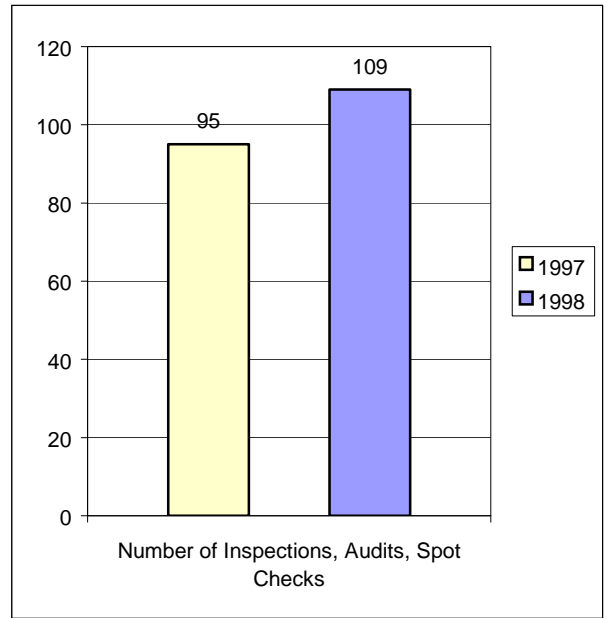
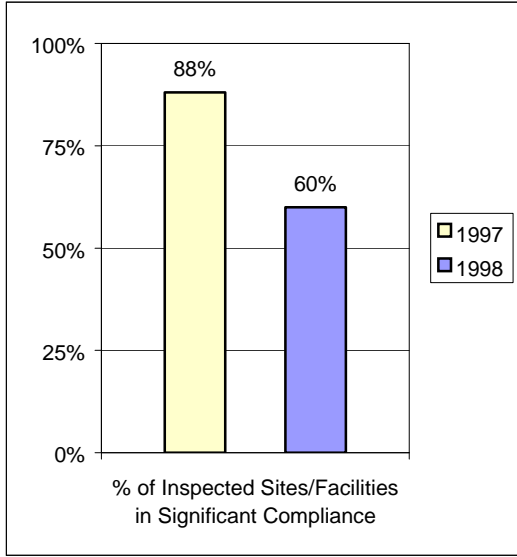
Permits are required for the operation of facilities that recycle natural wood waste (stumps, root mat, branches, logs, and brush). This is usually done by chipping the wastes and converting them into mulch. This process is regulated by the conditions in the permit.

Routine unannounced inspections are performed at these facilities several times per year to ensure compliance with the permit conditions. Although there were only 15 sites inspected, MDE inspectors also investigate citizen complaints about wood waste recycling operations. These responses account for the large number of inspections, audits, and spot checks relative to the number of inspected sites. Corrective orders and penalties may be issued for violations.

# Wood Waste Recycling

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	2
Number of Permits/Licenses in effect at Fiscal Year End	12
<u>OTHER REGULATED SITES/FACILITIES</u>	
Unpermitted sites with ongoing violations	3
<u>INSPECTIONS</u>	
Number of Sites Inspected	15
Number of Inspections, Audits, Spot Checks	109
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	6
% of Inspected Sites/Facilities in Significant Compliance	60%
% of Inspected Sites/Facilities with Significant Violations	40%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	0
Number of Significant Violations based on Technical/Preventative Deficiencies	6
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	1
Total	7
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	7
Ongoing	0
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	7
Number of Show Cause, Remedial, Corrective Actions Issued	1
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	8
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$2,083

# Wood Waste Recycling





**WATER MANAGEMENT  
ADMINISTRATION**

INSERT ORGANIZATION CHART

# **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

## **PROCESS**

Upon permit issuance, the file is transferred to the Compliance Program where an inspection priority is assigned. Inspections at the facilities are scheduled in accordance with the assigned priority. Scheduled inspection frequencies may be modified as workload or priorities change. If samples are needed to document site conditions they are taken and turned into a lab for analysis. Discharge Permits require sample self-monitoring of the discharge by the facility; results are filed quarterly with the Department in the form of Discharge Monitoring Reports (DMR). DMR review by the inspector is not counted as a separate activity; rather it is part of the inspector's preparation for making a facility inspections. Submitted DMR's are reviewed, in the office, by Enforcement Division Staff in order to determine whether the criteria for "Significant Noncompliance" has been met. The Enforcement Division is also responsible for entering all DMR data into a database.

# Discharges - Groundwater (Municipal And Industrial)

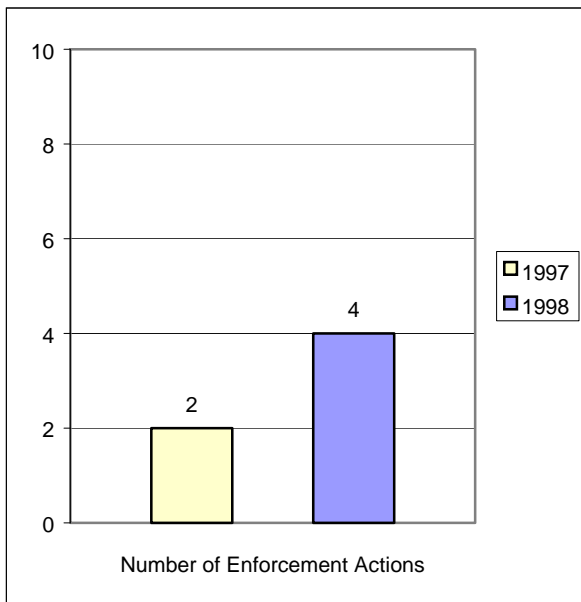
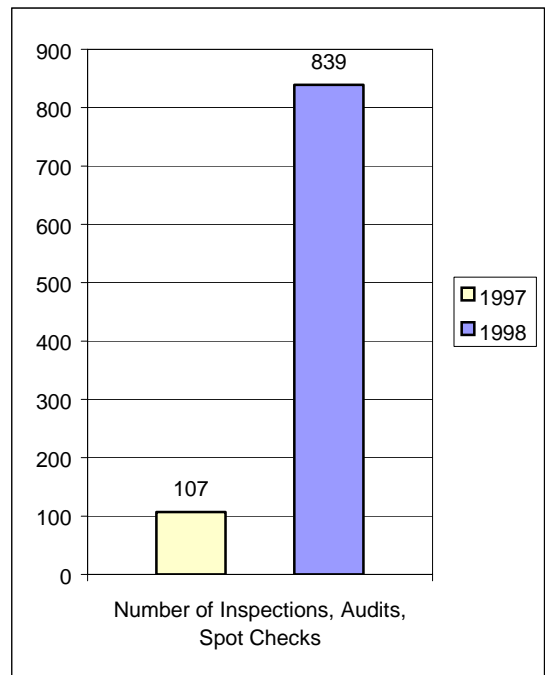
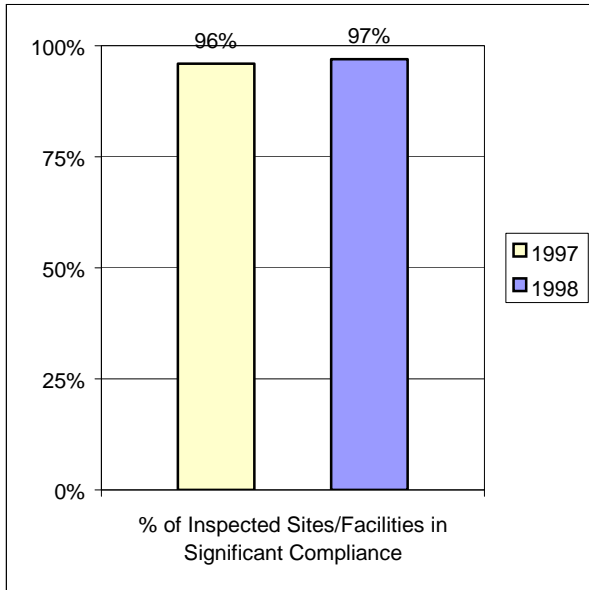
	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued*	35
Number of Permits/Licenses in effect at Fiscal Year End	227
<u>OTHER REGULATED SITES/FACILITIES</u>	
None	
<u>INSPECTIONS</u>	
Number of Sites Inspected	189
Number of Inspections, Audits, Spot Checks**	839
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	6
% of Inspected Sites/Facilities in Significant Compliance	97%
% of Inspected Sites/Facilities with Significant Violations	3%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	0
Number of Significant Violations based on Technical/Preventative Deficiencies	6
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	0
Total	6
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	3
Ongoing	3
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	43
Number of Show Cause, Remedial, Corrective Actions Issued	4
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	0
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$0

\*Includes 12 new/16 renewals/6 modifications

\*\*The FY 97 Report did not reflect the DMR review activity, which is a substantial part of the workload for the Compliance Program. Whereas not all facilities are inspected annually, the DMR's are reviewed upon receiving them, and based upon the analyses, may result in the initiation of a formal enforcement action. The DMR review qualifies as an audit as identified in the definition of "inspection, Audits, Spot Checks", and is therefore counted. This is the reason for the large increase in the number of sites inspected and the number of inspections from the previous year. There were 567 record reviews performed in FY 98. Enforcement actions may be based on the DMR's, on inspection findings, or on both.



# Discharges - Groundwater (Municipal And Industrial)



# Discharges - Surface Water (Municipal & Industrial) State and NPDES Permits

## **PURPOSE**

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 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. 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. All discharges to municipal wastewater systems will only require a pretreatment permit.

NOTE: Industrial Stormwater Discharge permits for construction activities are tracked and documented under the Stormwater Management and Erosion & 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

## **PROCESS**

Upon issuance of a permit the file is transferred to the Compliance Program where an inspection priority is assigned. Inspections at the facilities are scheduled in accordance with the assigned priority. Scheduled inspection frequencies may be modified as workload or priorities change. If water quality samples are needed to document site conditions they are taken and submitted to a lab for analysis. Discharge Permits require self-monitoring sampling of the discharge by the facility and

## **Discharges - Surface Water (Municipal & Industrial) State and NPDES Permits**

results filed quarterly with the Department in Discharge Monitoring Reports (DMR). DMR review by the inspector is not counted as a separate activity; rather it is part of the inspector's preparation for making a facility inspections. Submitted DMR's are reviewed, in the office, by Enforcement Division Staff in order to determine whether the criteria for "Significant Noncompliance" has been met. The Enforcement Division is also responsible for entering all DMR data into a database.

# Discharges – Surface Waster (Municipal & Industrial) State and NPDES Permits

1998 Totals

## PERMITTED SITES/FACILITIES

Number of Permits/Licenses issued	1043
Number of Permits/Licenses in effect at Fiscal Year End *	2028

## OTHER REGULATED SITES/FACILITIES

None

## INSPECTIONS

Number of Sites Inspected	1595
Number of Inspections, Audits, Spot Checks**	8297

## COMPLIANCE PROFILE:

Number of Inspected Sites/Facilities with Significant Violations	120
% of Inspected Sites/Facilities in Significant Compliance	90%
% of Inspected Sites/Facilities with Significant Violations	10%

## SIGNIFICANT VIOLATIONS

Number of Significant Violations involving Environmental or Health Impact	0
Number of Significant Violations based on Technical/Preventative Deficiencies	120
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	46
Total	166

## DISPOSITION OF SIGNIFICANT VIOLATIONS

Resolved	65
Ongoing	101

## ENFORCEMENT ACTIONS

Number of Compliance Assistance rendered	227
Number of Show Cause, Remedial, Corrective Actions Issued	32
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	29
Number of referrals to Attorney General for possible Criminal Action	5

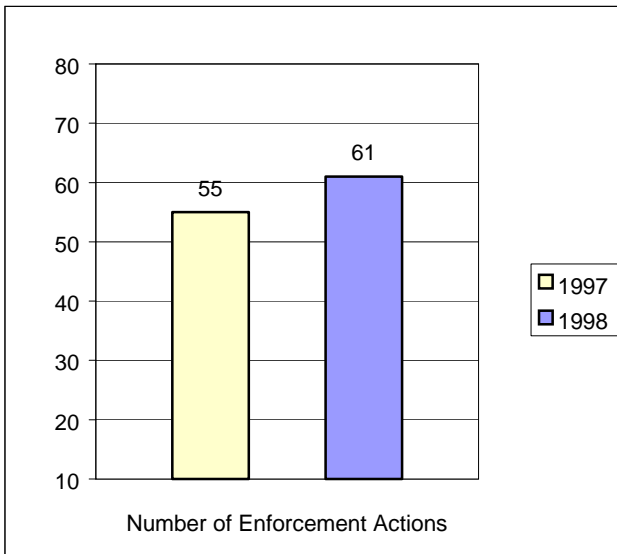
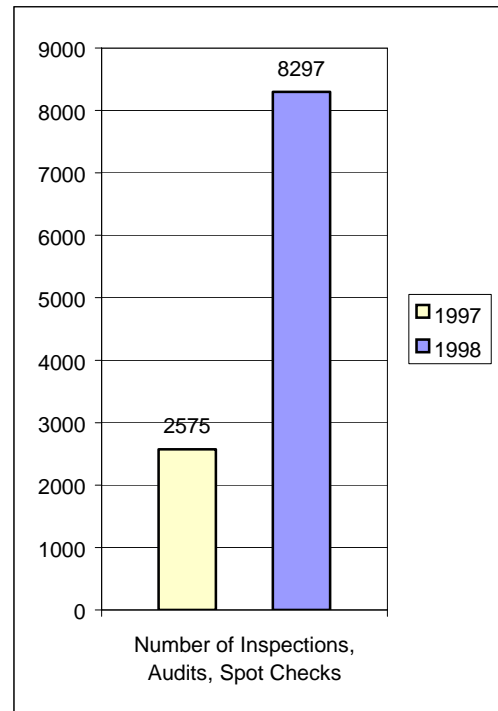
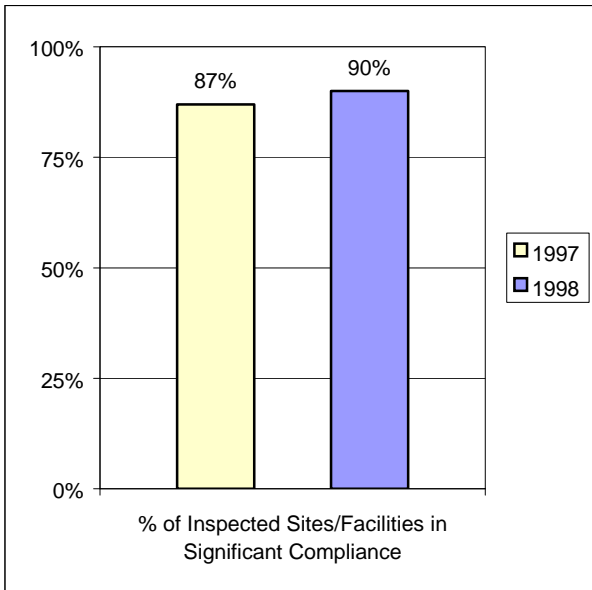
## PENALTIES

Amount of Administrative or Civil Penalties obtained	\$282,537
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\* Permits issued includes 675 renewals, 51 Conversions and 8 Modifications

\*\*The FY 97 Report did not reflect the DMR review activity, which is substantial part of the workload for the Compliance Program. Whereas not all facilities are inspected annually, the DMR's are reviewed upon receiving them, and based upon the analyses, may result in the initiation of a formal enforcement action. The DMR review qualifies as an audit as identified in the definition of "Inspections, Audits, Spot Checks", and is therefore counted. This is the reason for the large increase in the number of sites inspected and the number of inspections from the previous year. There were 5032 record reviews performed in FY'98. Enforcement actions may be based on the DMR's, on inspection findings, or on both. The totals for "Number of Sites Inspected" and "Number of Inspections" each include 341 agricultural inspections by the joint MDE-MDA (Maryland Department of Agriculture) Inspection Teams. The total "Number of Inspections" includes 72 Effluent Toxicity and Evaluation Inspections.

# Discharges – Surface Water (Municipal & Industrial) State and NPDES Permits



## **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 which are responsible for 244 sites. 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 POTW's, 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

### **PROCESS**

MDE, through the Pretreatment Permit Program, oversees local pretreatment program implementation. This oversight is performed by the permitting program staff by conducting: 1) pretreatment compliance inspections; 2) audits of pretreatment programs; 3) joint review of industrial user permits; 4) independent and joint industrial inspections with the POTW; 5) review of the monitoring reports from POTW's; or, 6) initiation of enforcement actions when the POTW fails to act in accordance with its delegated responsibilities.

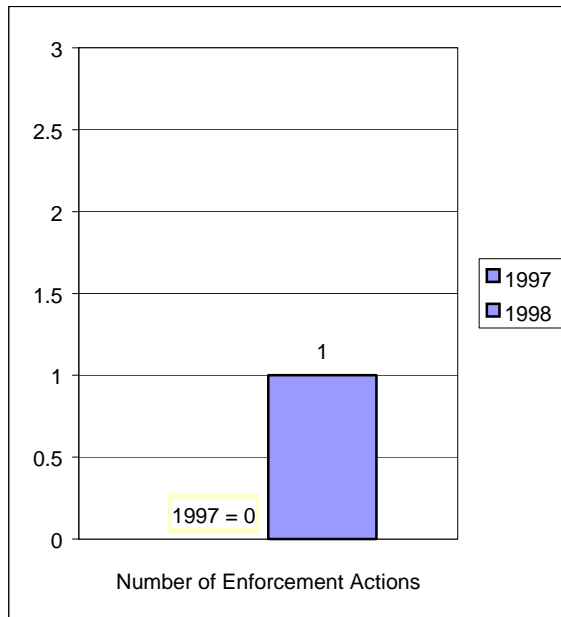
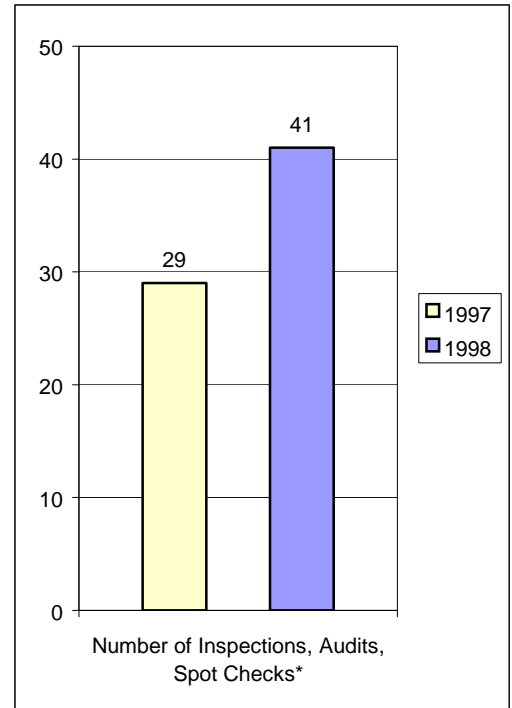
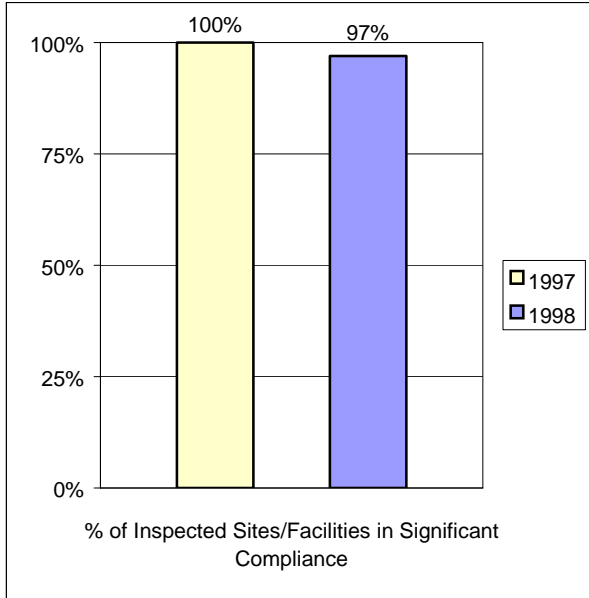
## Discharges -- Pretreatment (Industrial)

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	1
Number of Permits/Licenses in effect at Fiscal Year End	3
<u>OTHER REGULATED SITES/FACILITIES</u>	
Publicly Owned Treatment Works (POTWs)	18
Sites at which oversight is delegated to local authorities	244
<u>INSPECTIONS</u>	
Number of Sites Inspected	31
Number of Inspections, Audits, Spot Checks*	41
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	1
% of Inspected Sites/Facilities in Significant Compliance	97%
% of Inspected Sites/Facilities with Significant Violations	3%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	0
Number of Significant Violations based on Technical/Preventative Deficiencies	1
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	0
Total	1
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	1
Ongoing	0
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	0
Number of Show Cause, Remedial, Corrective Actions Issued	0
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions**	1
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$1,700

\* 3 MDE permitted sites and 39 delegated permits

\*\*Except for 3 MDE permits, enforcement is initiated by delegated POTW

## Discharges -- Pretreatment (Industrial)





# **Stormwater Management and Erosion & Sediment Control For Construction Activity**

## **PURPOSE**

The purpose of Maryland's erosion and sediment control program is to lessen the impact to the aquatic environment caused by sediment leaving construction sites. 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 stormwater management and erosion and sediment control plans before construction begins. The 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. 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.

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 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

## **PROCESS**

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

## **Stormwater Management and Erosion & Sediment Control For Construction Activity**

jurisdictions. Stormwater management approval for all nonstate and nonfederal projects is by law the responsibility of each local jurisdiction. State inspections of stormwater management facilities are performed only for state and federal projects. Upon issuance of a permit or authorization, whether by the Sediment and Stormwater Permits Division or by the local sediment control approval authority, the file is transferred to the Compliance Program where an inspection priority 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.

For this report, the Stormwater Management and Erosion and Sediment Control programs have been combined into one table. The rationale for this change is that at the state level, these projects are reviewed and approved as one project. For all state and federally funded projects, plan review and approval for stormwater management and for sediment control is performed by the Nonpoint Source Program, and inspections for stormwater management and sediment control are performed by the Compliance Program. Conversely, all non-state/nonfederal funded projects are reviewed at the local level, and if delegated, inspected at the local level. For nondelegated jurisdictions, the MDE Compliance Program performs sediment control inspections. In FY'98 there was a redirection of effort toward inspecting these permits and for accounting for those inspections when they were performed in association with the inspection of other media permits.

For the above-mentioned reasons there is a large increase in the number of sites inspected and the number of inspections performed over the previous year. In the following table, the 6060 inspections were performed at 2689 local Erosion and Sediment Control Approvals, while 1661 inspections were performed at 754 stormwater management approvals.

# Stormwater Management and Erosion & Sediment Control For Construction Activity

1998 Totals

PERMITTED SITES/FACILITIES

Number of Permits/Licenses issued*	597
Number of Permits/Licenses in effect at Fiscal Year End	9553

OTHER REGULATED SITES/FACILITIES

none

INSPECTIONS

Number of Sites Inspected	3443
Number of Inspections, Audits, Spot Checks	7721

COMPLIANCE PROFILE:

Number of Inspected Sites/Facilities with Significant Violations	36
% of Inspected Sites/Facilities in Significant Compliance	99%
% of Inspected Sites/Facilities with Significant Violations	1%

SIGNIFICANT VIOLATIONS

Number of Significant Violations involving Environmental or Health Impact	19
Number of Significant Violations based on Technical/Preventative Deficiencies	17
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	6
Total	42

DISPOSITION OF SIGNIFICANT VIOLATIONS

Resolved	36
Ongoing	6

ENFORCEMENT ACTIONS

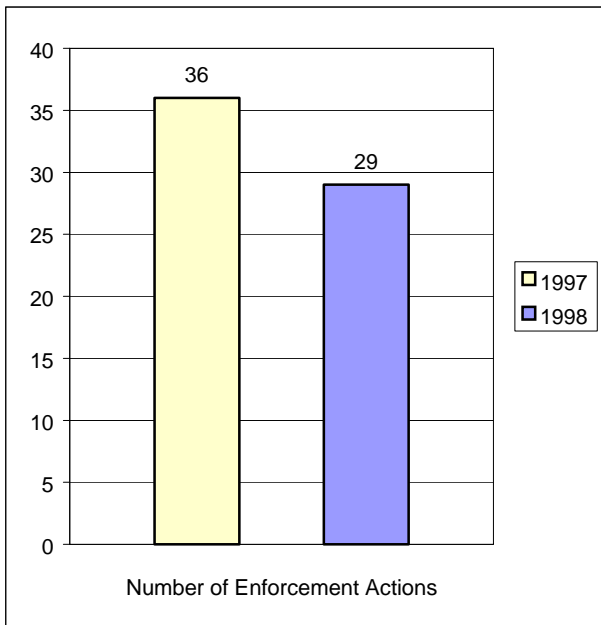
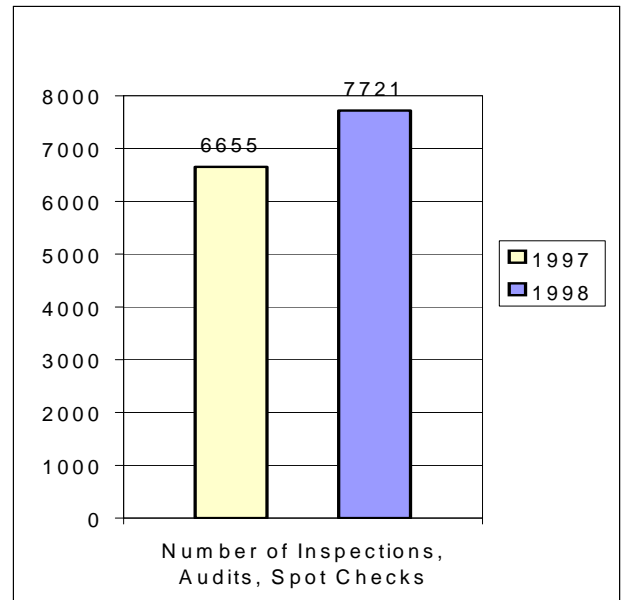
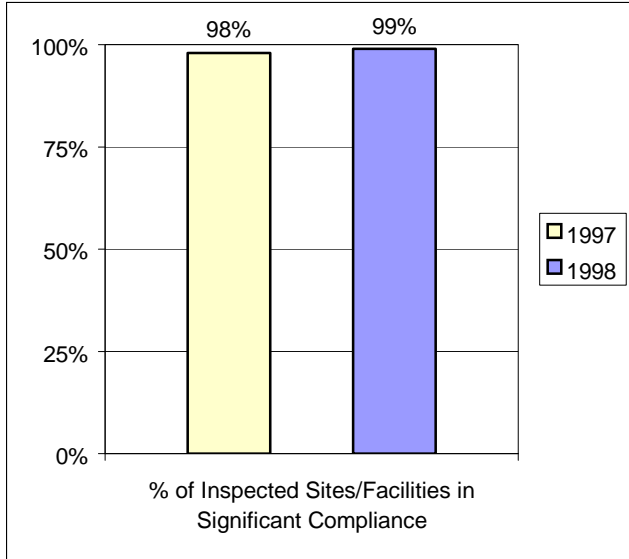
Number of Compliance Assistance rendered	852
Number of Show Cause, Remedial, Corrective Actions Issued	4
Number of Stop Work Orders	2
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	23
Number of referrals to Attorney General for possible Criminal Action	0

PENALTIES

Amount of Administrative or Civil Penalties obtained	\$39,185
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Includes 309 Permits of Industrial Stormwater for Construction Activities  
Sediment Control permits for Non-State/ Non-Federal projects are issued by local Soil Conservation Districts

# Stormwater Management and Erosion & Sediment Control For Construction Activity



# Mining – Coal

## **PURPOSE**

A coal-mining permit has been implemented to minimize the effects of coal mining on the environment. In addition to environmental controls, the permit provides for proper land reclamation and ensures public safety. Permits are required for surface coal mining, deep coal mining, prospecting, preparation plants, loading facilities, and refuse reclamation operations. All coal mining activity occurs in Allegany and Garrett Counties.

## **AUTHORITY**

FEDERAL: Surface Mining Control and Reclamation Act of 1977

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

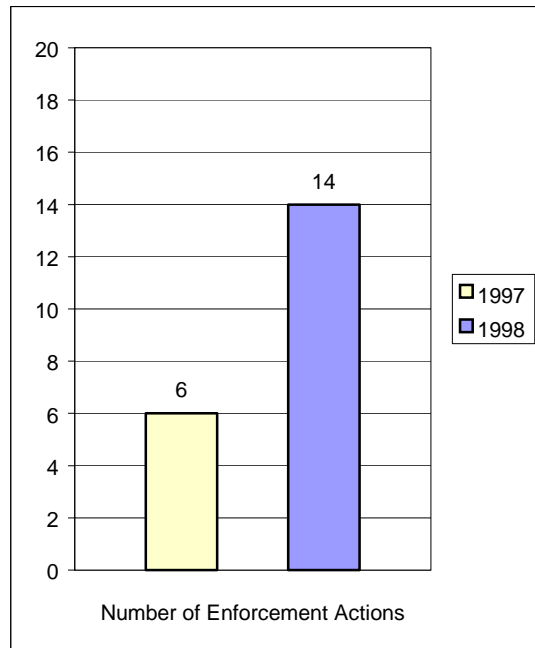
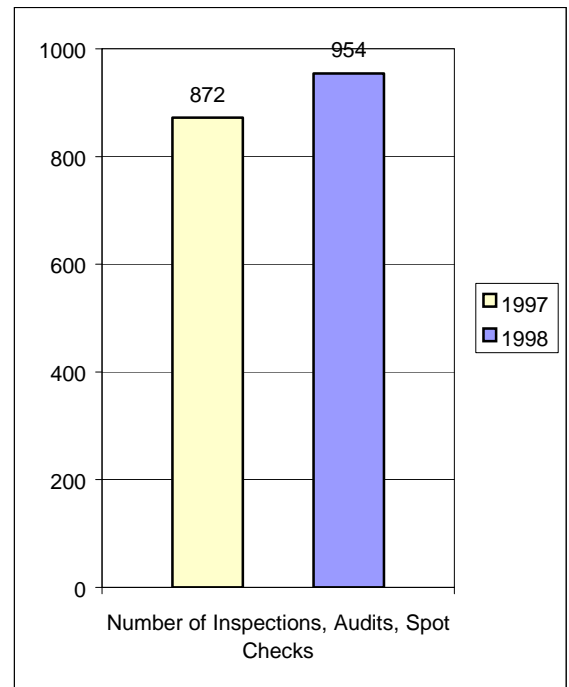
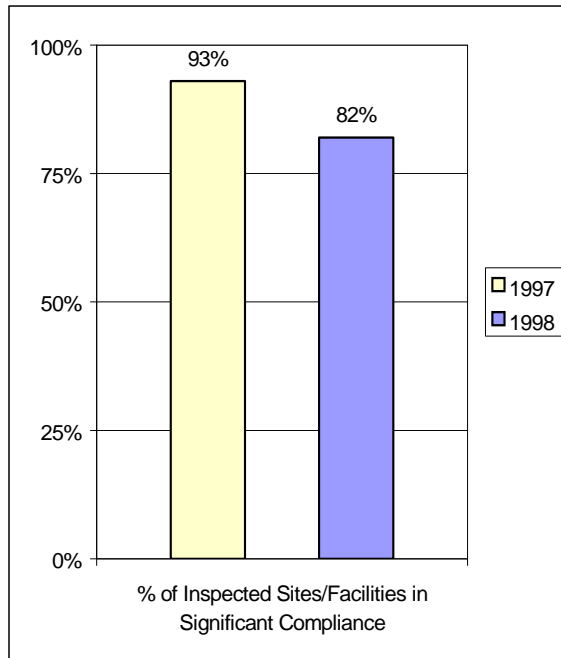
## **PROCESS**

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. FY'98 realized a decline of seven mining permits from FY'97 due to close outs; in FY'97 there were 10 mining permits closed out during that reporting period.

# Mining – Coal

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	2
Number of Permits/Licenses in effect at Fiscal Year End	71
<u>OTHER REGULATED SITES/FACILITIES</u>	
none	
<u>INSPECTIONS</u>	
Number of Sites Inspected	71
Number of Inspections, Audits, Spot Checks	954
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	12
% of Inspected Sites/Facilities in Significant Compliance	82%
% of Inspected Sites/Facilities with Significant Violations	18%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	3
Number of Significant Violations based on Technical/Preventative Deficiencies	10
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	0
Total	13
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	11
Ongoing	2
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	44
Number of Show Cause, Remedial, Corrective Actions Issued	13
Number of Stop Work Orders	1
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	0
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$880

# Mining – Coal



## **Mining – Non-Coal**

### **PURPOSE**

A mining permit has been implemented to minimize the effects of surface mining on the environment. In addition to environmental controls, the permit provides for proper land reclamation and ensures public safety. A performance bond of \$1,250 per acre is required to ensure that proper reclamation occurs.

### **AUTHORITY**

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

### **PROCESS**

Upon issuance of a permit/license/authorization the file is transferred to the Compliance Program where an inspection priority 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.

The Department does not have the authority to collect administrative penalties for this program.

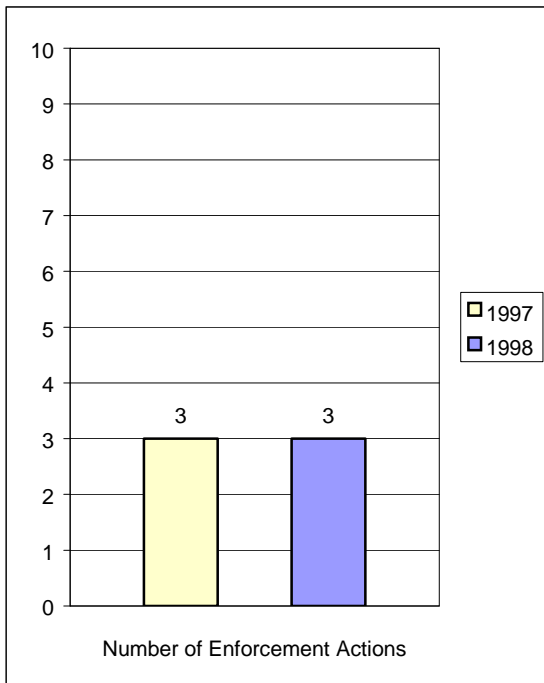
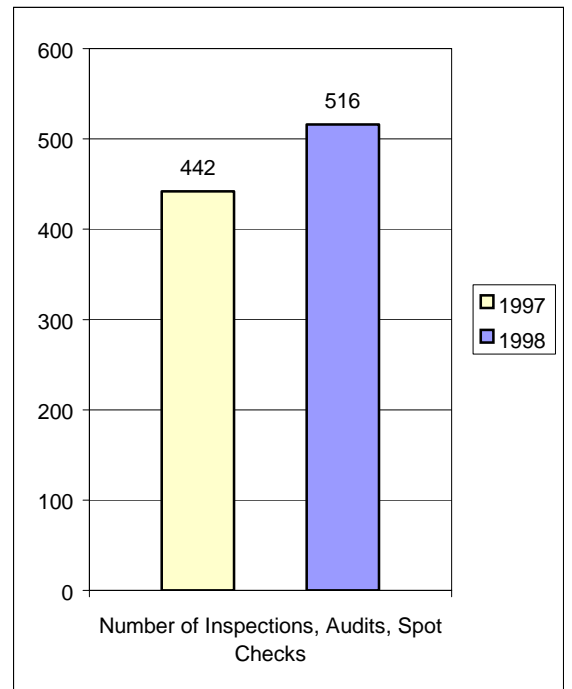
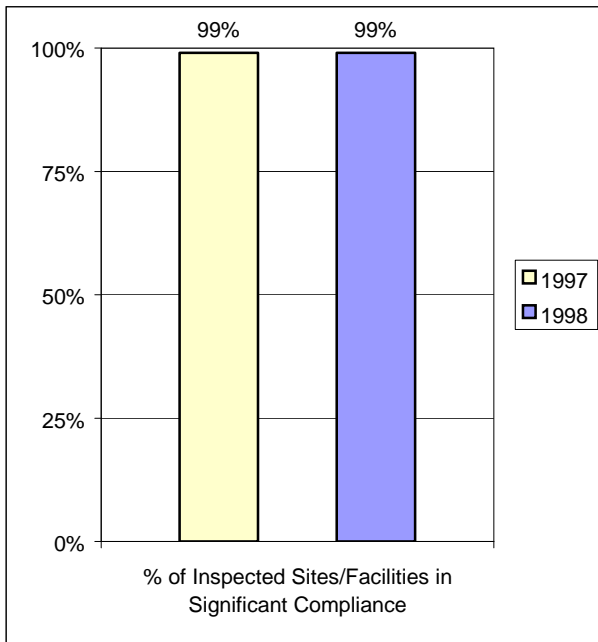


# Mining – Non-Coal

	1998 totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued*	325
Number of Permits/Licenses in effect at Fiscal Year End	359
<u>OTHER REGULATED SITES/FACILITIES</u>	
None	
<u>INSPECTIONS</u>	
Number of Sites Inspected	306
Number of Inspections, Audits, Spot Checks	516
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	3
% of Inspected Sites/Facilities in Significant Compliance	99%
% of Inspected Sites/Facilities with Significant Violations	1%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	2
Number of Significant Violations based on Technical/Preventative Deficiencies	1
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	0
Total	3
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	1
Ongoing	2
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	55
Number of Show Cause, Remedial, Corrective Actions Issued	1
Number of Stop Work Orders	2
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	0
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$0

\* Includes 50 Permits (new 9/Renewals 41), 275 licenses (New 18/ Renewals 257)

# Mining - Non-Coal



# Oil and Gas Exploration And Production

## **PURPOSE**

The drilling and operation of a gas or oil well requires a permit. The operation of a gas storage facility also requires a permit. Permits are also required for seismic operations. Permits are issued to ensure public safety and to provide for the protection of public and private property. Permitting provides for the use of stringent environmental controls to minimize impacts resulting from the operation.

## **AUTHORITY**

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

## **PROCESS**

Upon issuance of a permit/license/authorization the file is transferred to the Compliance Program where an inspection priority is assigned. The inspectors then schedule routine inspections of the facilities in accordance with the assigned priority. Site inspections may be adjusted to reflect changing workloads or inspection priorities. Inspections performed for this program are typically safety inspections at natural gas storage facilities. The inspections typically verify that proper warning and informational signs are properly placed and that any special conditions specific to the permit are in compliance.

# Oil and Gas Exploration And Production

1998 Totals

PERMITTED SITES/FACILITIES

Number of Permits/Licenses issued (renewal of previously expired permits)	39
Number of Permits/Licenses in effect at Fiscal Year End	91

OTHER REGULATED SITES/FACILITIES

None

INSPECTIONS

Number of Sites Inspected	79
Number of Inspections, Audits, Spot Checks	89

COMPLIANCE PROFILE:

Number of Inspected Sites/Facilities with Significant Violations	0
% of Inspected Sites/Facilities in Significant Compliance	100%
% of Inspected Sites/Facilities with Significant Violations	0

SIGNIFICANT VIOLATIONS

Number of Significant Violations involving Environmental or Health Impact	0
Number of Significant Violations based on Technical/Preventative Deficiencies	0
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	0
Total	0

DISPOSITION OF SIGNIFICANT VIOLATIONS

Resolved	0
Ongoing	0

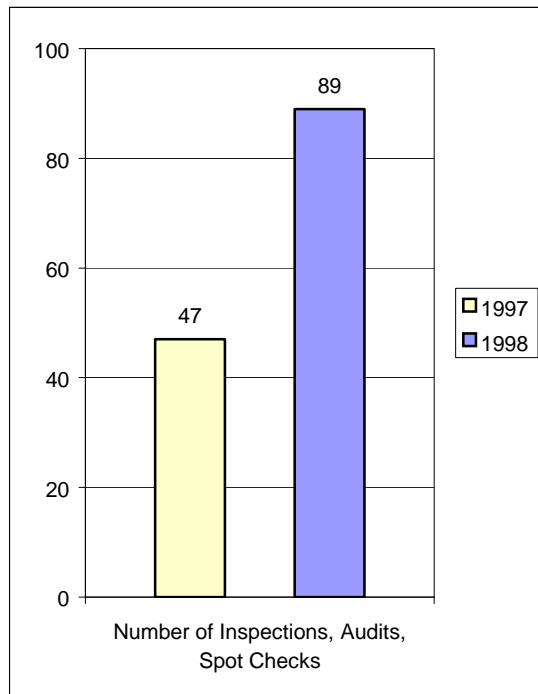
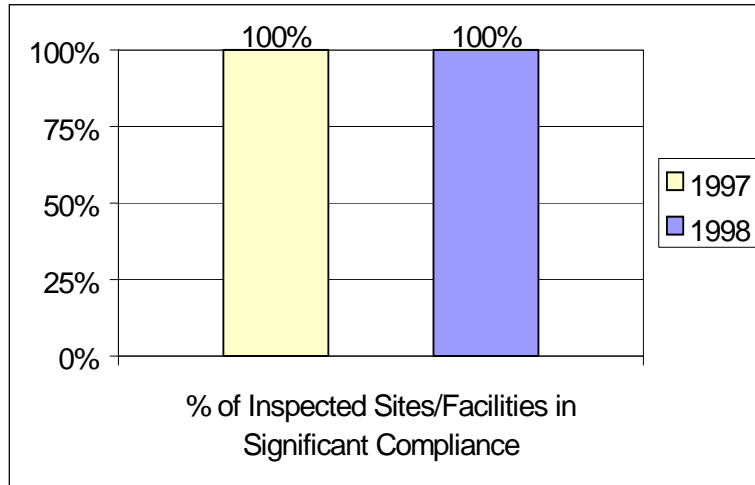
ENFORCEMENT ACTIONS

Number of Compliance Assistance rendered	0
Number of Show Cause, Remedial, Corrective Actions Issued	0
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	0
Number of referrals to Attorney General for possible Criminal Action	0

PENALTIES

Amount of Administrative or Civil Penalties obtained	\$0
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# Oil and Gas Exploration And Production



# 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. A combination of State and federal drinking water regulation enforcement, source protection activities, inspections and technical assistance are used to accomplish this goal. 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. The local environmental health departments regulate transient systems such as gas stations, campgrounds and restaurants. In addition to the various inspection and compliance measures listed in the following table, 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

## **PROCESS**

A sanitary survey is a comprehensive on-site assessment of all water system components that include the water source, treatment unit processes, equipment, operations and maintenance of a public water supply system. The survey is conducted for the purpose of determining the adequacy and reliability of the water system to provide safe drinking water to its customers. Sanitary surveys 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 issuance of Notice of Violation public notices.

# Public Drinking Water

1998 Totals

PERMITTED SITES/FACILITIES

Number of Permits/Licenses issued	1,243
Number of Permits/Licenses in effect at Fiscal Year End	3,076

OTHER REGULATED SITES/FACILITIES

Number of community and non-transient non-community water systems	1,006
Note: includes 506 community water systems and 500 non-transient non-community water systems. Local health departments regulate over 2500 transient systems	

INSPECTIONS

Number of Sites Inspected	1,006
Number of Inspections, Audits, Spot Checks	17,934

COMPLIANCE PROFILE:

Number of Sites/Facilities with Significant Violations	168
% of Sites/Facilities in Significant Compliance	83%
% of Sites/Facilities with Significant Violations	17%

SIGNIFICANT VIOLATIONS

Number of Significant Violations involving Environmental or Health Impact	66
Number of Significant Violations based on Technical/Preventative Deficiencies	141
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	17
Total	224

DISPOSITION OF SIGNIFICANT VIOLATIONS

Resolved	183
Ongoing	41

ENFORCEMENT ACTIONS

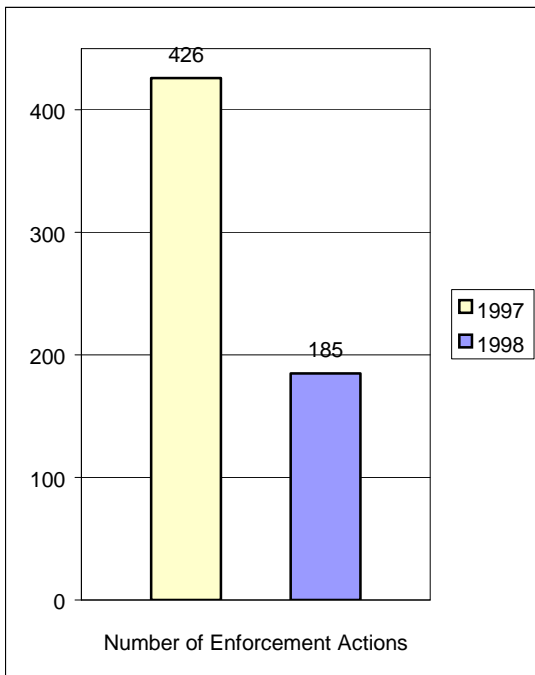
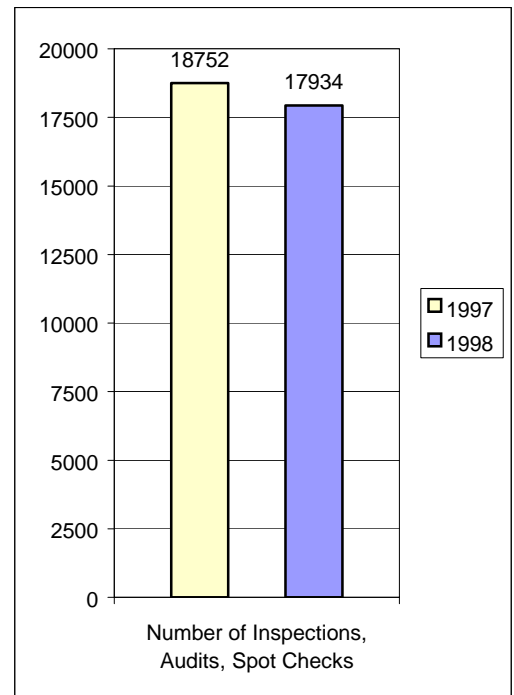
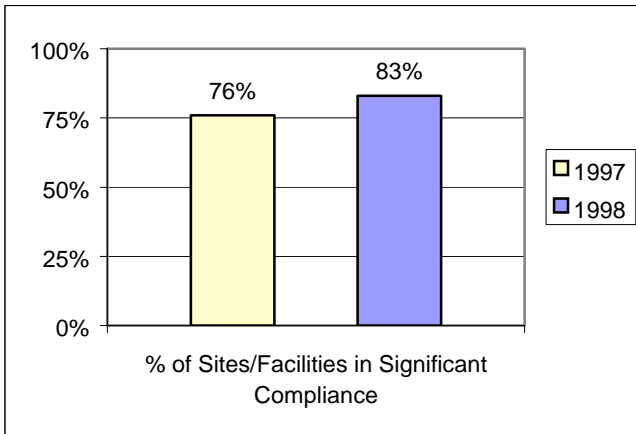
Number of Compliance Assistance rendered	1,397*
Number of Show Cause, Remedial, Corrective Actions Issued	4
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	180
Notices Given to Public by Water Systems under Section 9-410	107
Number of referrals to Attorney General for possible Criminal Action	1

PENALTIES

Amount of Administrative or Civil Penalties obtained	\$0
------------------------------------------------------	-----

\*This number includes actions to prevent public water system contamination or to respond to an emergency. Emergency response provided during 11 incidents in FY 98.

# Public Drinking Water





# 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 greater than 15 inches in diameter. These permits ensure conformity with the Governor's Smart Growth Policy, local comprehensive water and sewerage plans and that they 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, have a valid NPDES discharge permit (if applicable), and certify that the proposed water and/or sewerage facilities will be operated either publicly or privately under a financial management plan.

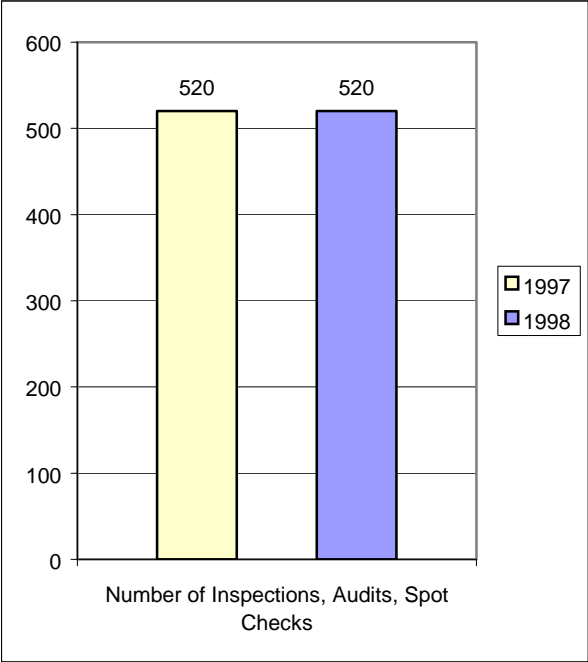
Post-approval: The project must be constructed in accordance with the approved plans and specifications. Staff engineers perform inspections in this media to verify the facility is constructed to the approved design and/or the permittee submits "as built" plans or certification that the project was built in accordance with original plans as approved by the Department. Other approvals associated with the construction (i.e. sediment control, wetlands, etc.) are inspected under those media and by those inspectors. After construction of water and/or sewerage facilities the facility become operational under an approved NPDES permit. This program does not have authority to pursue traditional enforcement actions. Construction violations would necessitate the return of construction grant money by the local jurisdiction. If a construction violation were to go unnoticed, the eventual result would be an inability of the facility to meet its discharge permit requirements. At that time, traditional enforcement tools available under the discharge permit program would be utilized.

# Water Supply and Sewerage Construction

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	189
Number of Permits/Licenses in effect at Fiscal Year End	1045
<u>OTHER REGULATED SITES/FACILITIES</u>	
None	
<u>INSPECTIONS</u>	
Number of Sites Inspected	160
Number of Inspections, Audits, Spot Checks	520
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	0
% of Inspected Sites/Facilities in Significant Compliance	100%
% of Inspected Sites/Facilities with Significant Violations	0
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	0
Number of Significant Violations based on Technical/Preventative Deficiencies	0
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	0
Total	
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	0
Ongoing	0
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	182
Number of Show Cause, Remedial, Corrective Actions Issued	*
Number of Stop Work Orders	*
Number of Injunctions Obtained	*
Number of Penalty and Other Enforcement Actions	*
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	*

\* Program does not have direct legal authority to pursue traditional enforcement actions for violations. It requires the return of grant proceeds. MDE may indirectly use its General water pollution authority if a constructed facility violates the law.

# Water Supply and Sewerage Construction



# 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 goals of this program are to ensure that dams are built and operated properly and to protect public safety. To achieve those goals, the permit division inspects all high-hazard dams once a year, significant or intermediate hazard dams are inspected once every three years, and low hazard dams are inspected once every 5-7 years. In addition to dam permits, permits are also issued for the new construction of small ponds or the repair of small ponds that are not approved by the local Natural Resources Conservation Service offices.

## **AUTHORITY**

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

## **PROCESS**

Upon issuance of a permit, a copy of the file is transferred to the Compliance Program.

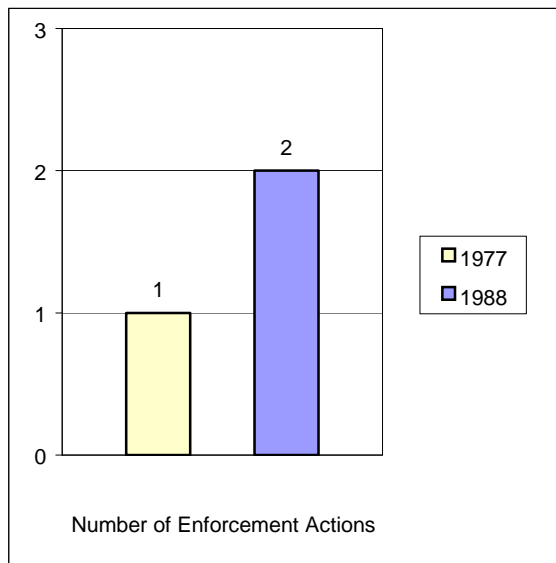
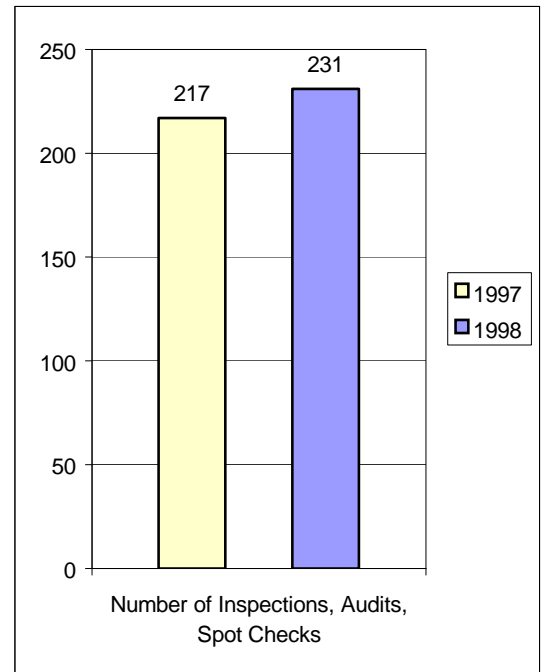
The permit division engineers make construction inspections and subsequent safety inspections. Based on those inspections, a dam may be declared unsafe, an Order may be issued to make repairs or take other action, or a letter identifying deficiencies for correction may be sent. The Compliance Program 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.

The Department does not have the authority to collect administrative penalties for this program.

# Waterway Construction - Dam Safety

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	20
Number of Permits/Licenses in effect at Fiscal Year End	402
<u>OTHER REGULATED SITES/FACILITIES</u>	
None	
<u>INSPECTIONS</u>	
Number of Sites Inspected	165
Number of Inspections, Audits, Spot Checks	231
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	6
% of Inspected Sites/Facilities in Significant Compliance	96%
% of Inspected Sites/Facilities with Significant Violations	4%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	0
Number of Significant Violations based on Technical/Preventative Deficiencies	6
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	0
Total	6
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	4
Ongoing	2
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	90
Number of Show Cause, Remedial, Corrective Actions Issued	2
Number of Stop Work Orders	0
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	0
Number of referrals to Attorney General for possible Criminal Action	0
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$0

# Waterway Construction - Dam Safety



# **Wetlands and Waterways Nontidal and Floodplain**

## **PURPOSE**

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. Any individual or entity planning grading or filling, excavating or dredging, changing existing drainage patterns, disturbing the water level or water table, or destroying or removing vegetation in a nontidal wetland must obtain a permit or authorization for the proposed activity.

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 stream or its 100-year floodplain is required to get a permit. Proposals are evaluated for impacts to the floodplain, public safety and welfare, and the environmental resources of the State of Maryland.

## **AUTHORITY**

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

## **PROCESS**

Upon issuance of a permit/license/authorization the file is transferred to the Compliance Program where an inspection priority 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 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 findings in the inspection report. 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. Increased emphasis has been placed on inspection in this program in FY'98 to verify that projects are in compliance with permits and that nontidal wetlands are protected.

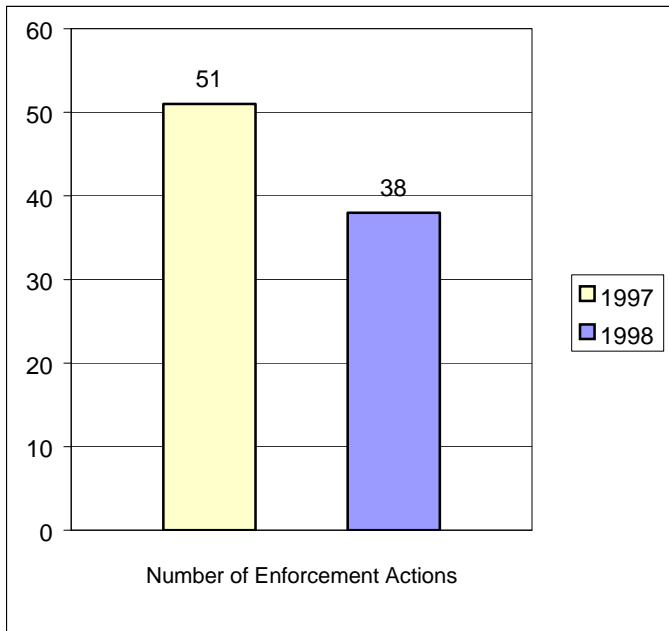
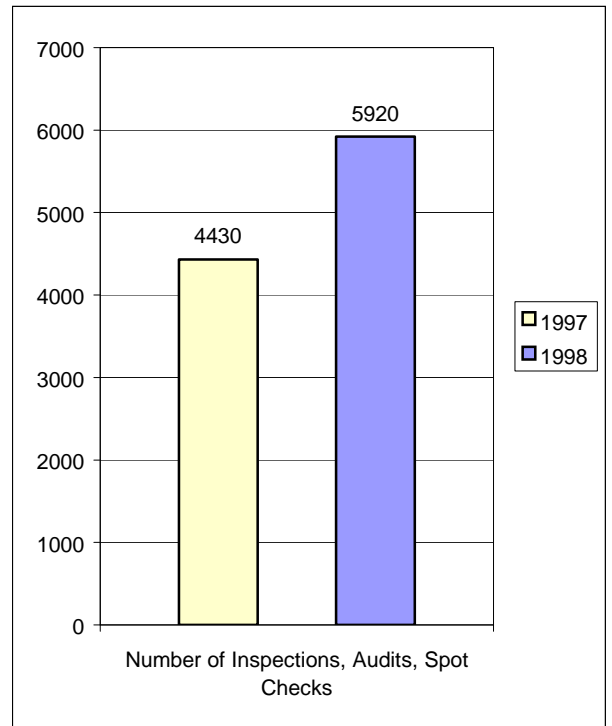
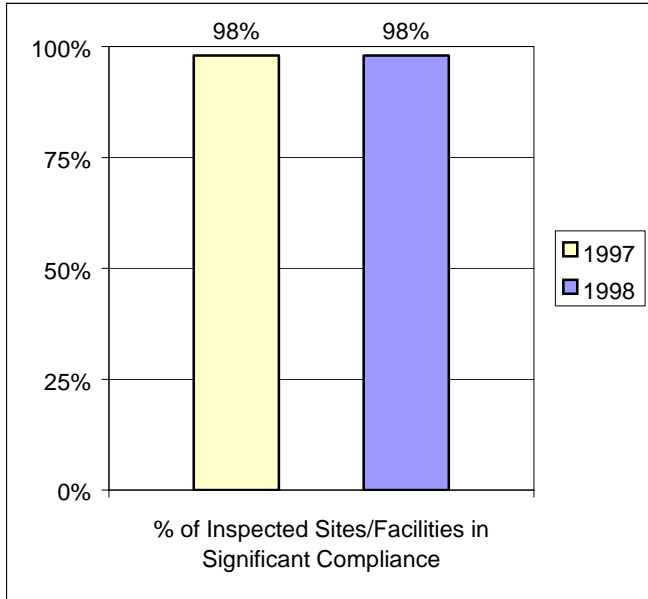
The Department does not have the authority to collect administrative penalties for this program.

# Wetlands and Waterways Nontidal and Floodplain

	1998 Totals
<u>PERMITTED SITES/FACILITIES</u>	
Number of Permits/Licenses issued	842
Number of Permits/Licenses in effect at Fiscal Year End	2892
<u>OTHER REGULATED SITES/FACILITIES</u>	
none	
<u>INSPECTIONS</u>	
Number of Sites Inspected	2729
Number of Inspections, Audits, Spot Checks	5920
<u>COMPLIANCE PROFILE:</u>	
Number of Inspected Sites/Facilities with Significant Violations	29
% of Inspected Sites/Facilities in Significant Compliance	98%
% of Inspected Sites/Facilities with Significant Violations	2%
<u>SIGNIFICANT VIOLATIONS</u>	
Number of Significant Violations involving Environmental or Health Impact	1
Number of Significant Violations based on Technical/Preventative Deficiencies	28
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	12
Total	41
<u>DISPOSITION OF SIGNIFICANT VIOLATIONS</u>	
Resolved	35
Ongoing	6
<u>ENFORCEMENT ACTIONS</u>	
Number of Compliance Assistance rendered	352
Number of Show Cause, Remedial, Corrective Actions Issued	22
Number of Stop Work Orders	12
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	4
Number of referrals to Attorney General for possible Criminal Action	1
<u>PENALTIES</u>	
Amount of Administrative or Civil Penalties obtained	\$0



# Wetlands and Waterways Nontidal and Floodplain



# Wetlands - Tidal

## **PURPOSE**

Tidal wetlands are open water and vegetated estuarine systems affected by the rise and fall of tide. The goal of the Wetlands and Riparian Rights Act is to preserve tidal wetlands and prevent their despoliation and destruction. The Program strives for a net resource gain in wetland area over present conditions. This is to be accomplished by preventing further degradation and losses of tidal wetlands due to human activity, and by offsetting unavoidable losses or degradations through the deliberate restoration or creations of tidal wetlands through the Tidal Wetland Compensation Fund.

Authorizations, in the forms of licenses and permits, are required to minimize impacts to aquatic resources and tidal wetlands from dredging, filling, the construction of bulkheads and other related activities.

## **AUTHORITY**

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

## **PROCESS**

Upon issuance of a license/permit/authorization the file is transferred to the Compliance Program where an inspection priority 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 typically verify that the work being performed is in accordance with the work authorized and that all license or permit conditions are in compliance.

The Department does not have the authority to collect administrative penalties for this program.

# Wetlands - Tidal

1998 Totals

PERMITTED SITES/FACILITIES

Number of Permits/Licenses issued	1747
Number of Permits/Licenses in effect at Fiscal Year End	2613

OTHER REGULATED SITES/FACILITIES

none

INSPECTIONS

Number of Sites Inspected	1438
Number of Inspections, Audits, Spot Checks	1670

COMPLIANCE PROFILE:

Number of Inspected Sites/Facilities with Significant Violations	8
% of Inspected Sites/Facilities in Significant Compliance	99%
% of Inspected Sites/Facilities with Significant Violations	1%

SIGNIFICANT VIOLATIONS

Number of Significant Violations involving Environmental or Health Impact	0
Number of Significant Violations based on Technical/Preventative Deficiencies	8
Number of Significant Violations carried over awaiting disposition from Previous Fiscal year	0*
Total	8

DISPOSITION OF SIGNIFICANT VIOLATIONS

Resolved	7
Ongoing	1

ENFORCEMENT ACTIONS

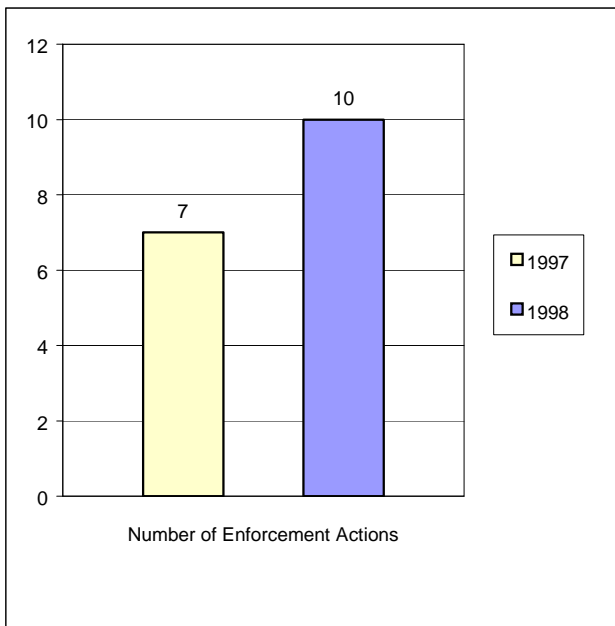
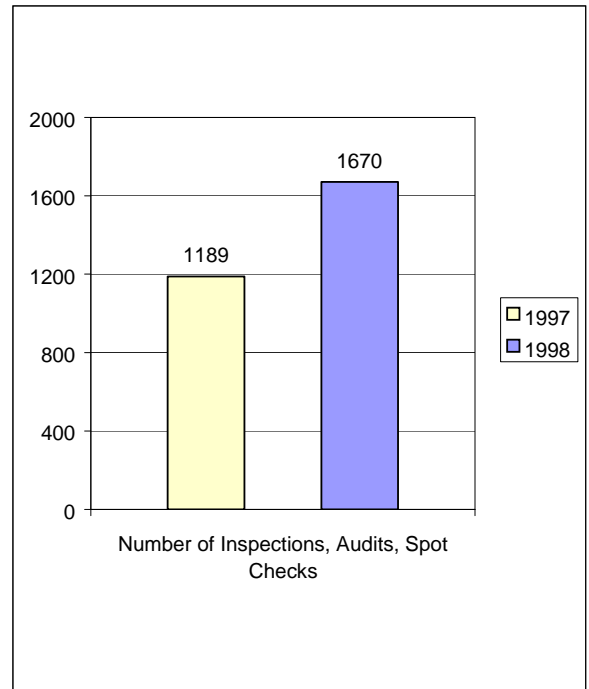
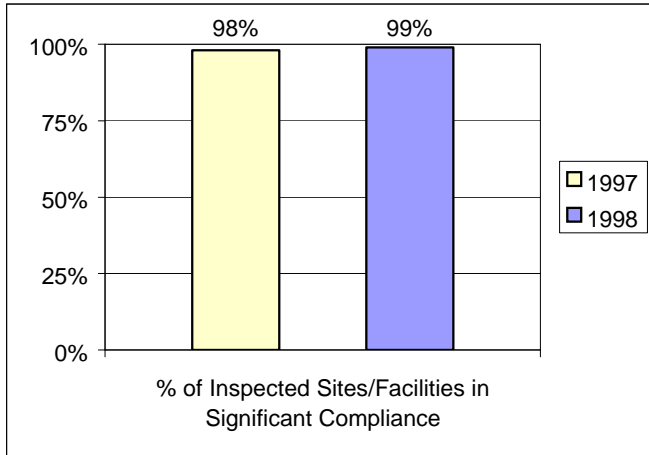
Number of Compliance Assistance rendered	66
Number of Show Cause, Remedial, Corrective Actions Issued	6
Number of Stop Work Orders	4
Number of Injunctions Obtained	0
Number of Penalty and Other Enforcement Actions	0
Number of referrals to Attorney General for possible Criminal Action	2

PENALTIES

Amount of Administrative or Civil Penalties obtained	\$0
------------------------------------------------------	-----

\*FY97 Report Error - 7 significant violations were resolved

# Wetlands - Tidal



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

# OFFICE OF THE ATTORNEY GENERAL ENVIRONMENTAL CRIMES UNIT

## **PURPOSE**

The Attorney General's Environmental Crimes Unit (ECU) is a criminal investigation and prosecution unit under the direction of the Criminal Investigations Division of the Attorney General's Office. ECU utilizes the prosecutorial authority of the Attorney General, the investigative and law enforcement authority of Maryland State Troopers assigned to the Unit and the environmental expertise of MDE. ECU investigates environmental violations and, when appropriate, files criminal charges, prosecuting the offender. In the grand scheme of MDE's enforcement efforts, from a merely statistical standpoint, ECU is but a small part. However, in the range of enforcement options, ECU can be a very effective and vital tool.

ECU's mission in protecting the quality of Maryland's air, land and water resources dovetails with the MDE enforcement mission. ECU's mission, like MDE's, covers the entirety of the State. However, ECU's statewide mission is carried out with a staff that amounts to a tiny fraction of the workforce that MDE dedicates to enforcement. With a total staff of eight, six of whom (4 investigators and 2 prosecutors) are directly involved in the criminal enforcement work of the unit, ECU must tailor its mission to get the most out of its limited resources. ECU operates from the perspective that criminal enforcement is the enforcement choice of last resort. It is applied to the worst and most recalcitrant offenders, where the prospect of imprisonment and/or being stigmatized by a criminal conviction must be resorted to in order to protect the quality of Maryland's air, land and water resources.

## **AUTHORITY**

**STATE:** The Attorney General has the general authority under Article V, Section 3 of the Constitution of Maryland to investigate and prosecute crimes as directed by the Governor or a law of the General Assembly. The General Assembly, through several provisions in the Environment Article, authorizes the Attorney General to criminally prosecute violations of specific statutes in the Article.

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

## **PROCESS**

The ECU receives complaints calling for possible investigation from three basic sources: the MDE Administrations, other governmental agencies and the general public. Complaints are initially reviewed by ECU prosecutors to assess the presence of factors indicating possible criminal intent. Complaints where such factors are found are then passed on to ECU investigators to conduct full investigations for the purpose of gathering sufficient evidence to support the filing of criminal charges.

# OFFICE OF THE ATTORNEY GENERAL ENVIRONMENTAL CRIMES UNIT

**CHART 1** shows the number of investigations conducted by ECU during FY 98, as well as the source of the complaints leading to the investigations.

INVESTIGATIONS - FY '98			
SOURCE OF COMPLAINTS		COMPLAINTS REVIEWED	INVESTIGATIONS OPENED
M D E	ARMA	0	0
	TARSA	26	18
	WAS	24	19
	WMA	11	5
	OS/CO	0	0
TOTAL FROM MDE		61	42
OTHER SOURCES		63	37
TOTAL		124	79

The MDE administrations ARMA, WAS, WMA have traditional enforcement components within their respective programs. TARSA does not. TARSA's Emergency Response Program, however, often responds to situations that Emergency Response personnel assess and determine require possible enforcement action. Those situations are referred by TARSA to the appropriate administration enforcement program or to ECU.



## OFFICE OF THE ATTORNEY GENERAL ENVIRONMENTAL CRIMES UNIT

**CHART 2** shows the number of cases prosecuted by ECU during FY 98. The chart distinguishes between the number of cases whose prosecution was commenced during FY 98 by the filing of criminal charges and the number of cases reaching courtroom conclusion during FY 98. In prosecuting cases, it is not uncommon for charges in a case to be filed during one fiscal year and for the case to be concluded in a courtroom case during the subsequent fiscal year.

PROSECUTIONS - FY '98		
MDE ADMINISTRATION	NO. OF CASES FILED	NO. OF CASES CONCLUDED*
ARMA	0	2
WAS	14	18
WMA	9	9
<b>TOTAL</b>	<b>23</b>	<b>29</b>

\*Cases concluded in one FY may have been filed in a previous FY.

## OFFICE OF THE ATTORNEY GENERAL ENVIRONMENTAL CRIMES UNIT

CHART 3 shows the penalties handed out by the courts as the result of those cases concluded in a courtroom during FY 98.

OFFICE OF THE ATTORNEY GENERAL ENVIRONMENTAL CRIMES UNIT  FY '98 PROSECUTIONS CASE DISPOSITION STATISTICS							
MDE ADMINISTRATION	NO. OF CASES CONCLUDED IN COURT	FINES, RESTITUTION, ENVIRONMENTAL PROJECT COSTS		JAIL TIME		PROBATION (YEARS)	COMMUNITY SERVICE (HOURS)
		Imposed	To Be Paid	Imposed	To Be Served		
ARMA	2	20,000.00	20,000.00	12 mos.	7 days	1	0
WAS	18	38,750.00	34,750.00	71 mos.	20 mos./12 days	15.5	565
WMA	9	59,038.98	33,838.98	4 mos.	0	11	50
TOTAL	29	\$117,788.98	\$88,588.98	87 mos.	20 mos./19 days	27.5	615

## OFFICE OF THE ATTORNEY GENERAL

MARYLAND DEPARTMENT OF THE ENVIRONMENT  
FISCAL YEAR 1998 ENFORCEMENT AND COMPLIANCE REPORT

# ENVIRONMENTAL CRIMES UNIT

**CHART 4.** The Report on Enforcement Activities required by Section 1-301(d) of the Environment Article requires the reporting of information regarding criminal cases prosecuted under specified provisions of the Environment Article. While reflecting all ECU activity for the fiscal year, the shaded areas of this chart reflect the required specified information.

	Title 2		Title 4		Title 5		Title 6			Title 7	
	<i>Subtitle 4</i>	<i>Other</i>	<i>Subtitle 4</i>	<i>Other</i>	<i>Subtitle 9</i>	<i>Other</i>	<i>Subtitle 4</i>	<i>Subtitle 8</i>	<i>Other</i>	<i>Subtitle 2</i>	<i>Other</i>
Number of Criminal Cases Charged										3	
Number of Criminal Cases Concluded in Court		2			1					3	
Number of Convictions Obtained		2			1					3	
Amount of Imprisonment Time Ordered (Months)		12								3	
Amount of Imprisonment Time To Be Served (Days)		7									
Amount of Probation (Years)		1			1					1.5	
Amount of Community Service (Hours)											
Amount of Criminal Fines, Restitution & Clean Up Costs Imposed		20,000.00			10,000.00					32,500.00	
Amount of Criminal Fines, Restitution & Clean Up Costs To Be Paid		20,000.00			1,000.00					32,500.00	

<b>Shaded Areas--Requested Under Section 1-301(d)</b>
Title 2 - Ambient Air Quality Control
Title 4 - Water Management
Title 5 - Water Resources
Title 6 - Toxic, Carcinogenic & Flammable Substances
Title 7 - Hazardous Materials and Hazardous Substances

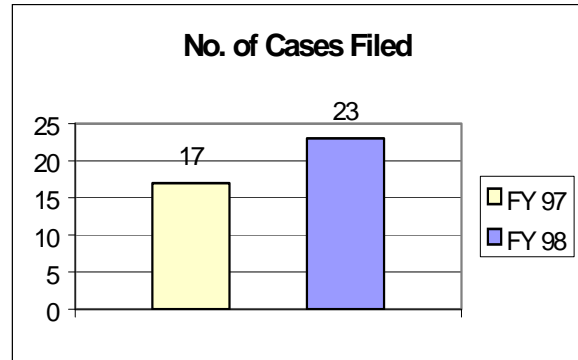
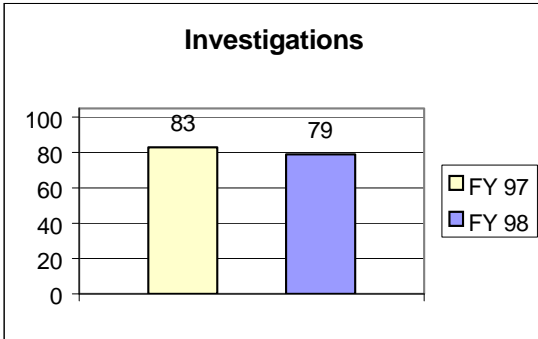
# OFFICE OF THE ATTORNEY GENERAL ENVIRONMENTAL CRIMES UNIT

**CHART 4. Continued**

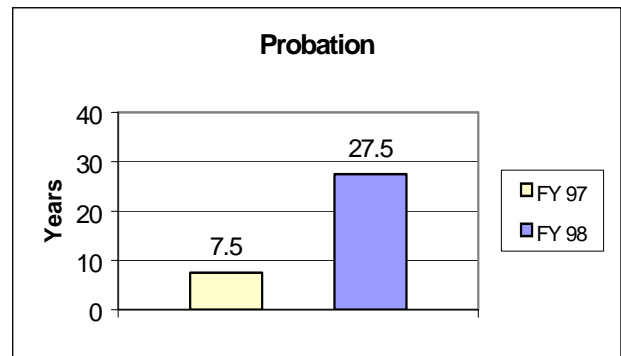
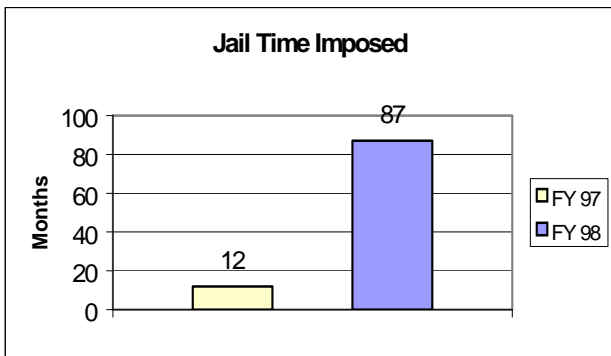
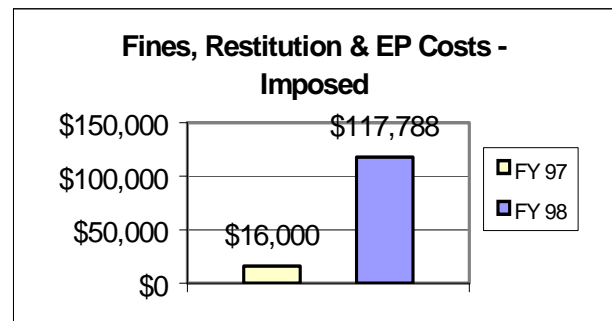
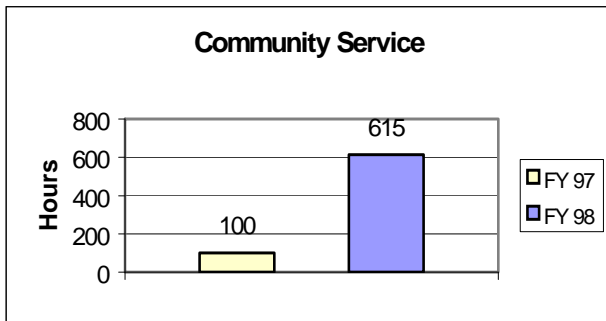
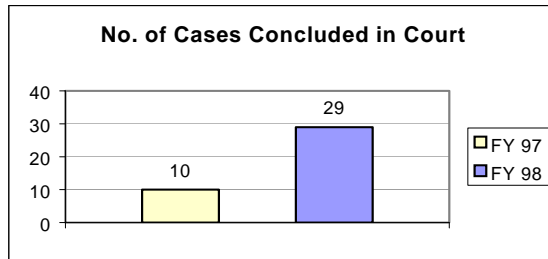
	Title 9				Title 13	Title 16	Art. 27	Totals
	Subtitle 2	Subtitle 3	Subtitle 4	Other		Subtitle 2	Sect. 468	
Number of Criminal Cases Charged		6	1	1		1	11	23
Number of Criminal Cases Concluded in Court		5	1	1		1	15	29
Number of Convictions Obtained		4	1	1		1	12	25
Amount of Imprisonment Time Ordered (Months)		3		1			68	87 mos
Amount of Imprisonment Time To Be Served (Days)							612	619 days
Amount of Probation (Years)		6	1	2		1	14	27.5 yrs
Amount of Community Service (Hours)		50					565	615 hrs
Amount of Criminal Fines, Restitution & Clean Up Costs Imposed		39,233.98	5,000.00	4,305.00		500.00	6,250.00	\$117,788.98
Amount of Criminal Fines, Restitution & Clean Up Costs To Be Paid		23,033.98	5,000.00	4,305.00		500.00	2,250.00	\$ 88,588.98
			<b>MDE</b>	<b>OTHER</b>				
	<b>WAS</b>	<b>WMA</b>	<b>TOTAL</b>	<b>SOURCES</b>	<b>TOTAL</b>			
Number of Complaints Referred to ECU (Via MDE & Other)	24	11	61	63	124			

<b>Shaded Areas--Requested Under Section 1-301(d)</b>
Title 9 - Water, Ice, and Sanitary Facilities
Title 13 - Well Drillers
Title 16 - State Wetlands
Art. 27, Sect. 468 - Litter Control Law

# OFFICE OF THE ATTORNEY GENERAL ENVIRONMENTAL CRIMES UNIT



## Case Disposition Statistics



# FUTURE OF ENFORCEMENT AND COMPLIANCE AT MDE

## COMPLIANCE ASSISTANCE

Compliance assistance is both a valuable customer service and an efficient, effective way to improve environmental safeguards. Environment Article section 1-301(d) requires 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 generally identifies the types of contacts MDE has with businesses to help them come into compliance.

One specific form of contact between businesses and MDE's enforcement and compliance inspectors is counted in the programs' performance measures charts under the category of "*compliance assistance.*" As an element of MDE's enforcement process, an inspector renders an identifiable and countable 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 or actions which the regulated entity has the option of undertaking to prevent the likelihood of potential future violations, which action or actions the regulated entity undertakes voluntarily 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.

Beyond the enforcement process, the concept of 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. Although the count of these public outreach activities is not included in this report, examples of these activities include:

- The Environmental Permits Service Center which assists businesses that need MDE permits or approvals to understand their responsibilities under the law and establish lines of communication between businesses and the Department through which assistance may be sought and rendered.
- The Department operates a Small Business Assistance Program (SBAP) which helps small businesses understand and comply with Maryland's environmental programs and regulations, and provides pollution prevention and waste minimization information to businesses, explaining how businesses can save money, reduce environmental liabilities and the need for permits by changing their operations to avoid creating pollution. In the past, the SBAP has conducted site visits and workshops to dry cleaners, auto body shops, printers, and metal platers. The SBAP is developing new outreach programs to focus on small business industry sectors that cumulatively have the potential to significantly impact the environment.
- The Department publishes and distributes a *Business Guide to Environmental Permits and Approvals* which provides detailed information about each of MDE's permits, such as the purpose of the permit, the permit requirements, the permit application process, the standard turnaround time, the term of certification, the permit fee, and the Department contact for further information and assistance if needed. The Department has made a

number of permit applications and instructions for completing the application available through the Internet at MDE's website. The Department is also working to enable businesses to submit their permit applications via the Internet.

## **RESULTS BASED MANAGEMENT**

### **Managing Maryland for Results**

The Maryland Department of the Environment (MDE) continues to play a leadership role in implementing Governor Glendening's initiative Managing Maryland for Results (MMFR). MDE's Fiscal Year 2000 Managing Maryland for Results Workplan emphasizes the Department's commitment to using results-based, quality planning and management approaches to achieving its public health and environmental protection goals, as well as the agency's "management" goals. The following are MDE's 15 environmental and management goals:

- Goal 1 –** *Ensuring the Air is Safe to Breathe*
- Goal 2 –** *Ensuring that Marylanders are not Exposed to Unnecessary Levels of Radiation*
- Goal 3 –** *Ensuring Safe Drinking Water*
- Goal 4 –** *Reducing the Threat to Public Health from the Presence of Hazardous Waste and Hazardous Materials in the Environment*
- Goal 5 –** *Ensuring Water is Clean and Safe for Harvesting of Fish and Shellfish*
- Goal 6 –** *Improving and Protecting Maryland's Water Quality*
- Goal 7 –** *Ensuring Adequate Protection and Restoration of Maryland's Wetland*
- Goal 8 –** *Protecting and Maintaining Maryland's Natural Resource Land Base and Encouraging Smart Growth and Community Revitalization*
- Goal 9 –** *Preventing Pollution and Compliance Assistance*
- Goal 10 –** *Supporting and Promoting Agency Diversity*
- Goal 11 –** *Improving Regulatory Customer Services -- Regulatory Reform and Permit Streamlining*
- Goal 12 –** *Maximizing Human Resources*
- Goal 13 –** *Utilizing Information Technology to Optimize and Enhance Environmental and Administrative Operations*
- Goal 14 –** *Assuring Public Participation and Stakeholder Involvement*
- Goal 15 –** *Improving the Budget Process, Fiscal Management and Accountability*

In developing the Department's goals and management activities, MDE first looked at the environment and public health conditions in Maryland. Many of these conditions are characterized

in the 1998 report "Maryland's Environmental Indicators". MDE is using these environmental indicators as key outcome measures to track and report progress in achieving our goals. Other outcome measures, as well as output, input, quality and efficiency measures (where appropriate) may be found in MDE's FY 2000 Workplan. . This report provided many key measures for most of MDE's environmental goals. For those activities common to many programs, such as permitting and enforcement, public outreach, complaint responses, and many other measures, the department attempted to standardize these measures across programs. There are many performance measures related to goal-specific activities that are unique to an environmental or management goal. MDE is continuing to develop and refine its program performance measures for all of its goals.

MDE aligned its FY 2000 Workplan according to our environmental and public health goals. For instance, all activities that seek to achieve the same environmental outcome are aligned together under a common goal. In many cases, MDE's goals span multiple program areas, and therefore, do not fall neatly within a single media administration. As we move forward with the performance measurement system, this will become increasingly important in aligning the Department's budget with its goals and priorities.

The State's MMFR plan requires agencies to submit data for performance measures in Year 3 of the plan, Fiscal Year 2001. MDE will be working hard over the next year to implement systems to begin collecting data for new measures and refining data collection efforts for existing or refined measures. MDE was fortunate to have a head start with much of the enforcement and compliance data collected in this report for the last two fiscal years.

### **Environmental Performance Partnership Agreement**

MDE and its sister agency, the Department of Natural Resources (DNR), have been working with the U.S. Environmental Protection Agency Region III (EPA) – (The Partners) to implement a performance partnership relationship that will result in better coordination between the partners in order to protect human health and the environment. MDE and DNR have been using the Managing for Results strategic planning process to continuously develop and implement the performance partnership agreements.

In 1998, Maryland's public health, environmental and natural resources protection agencies entered into their first agreement with the EPA. The purpose of the FY 98 Agreement between MDE, DNR and EPA was to provide for the development of a long-term, results-based management plan that will improve the effectiveness of Maryland's environmental programs and strengthen the relationship between the Departments and EPA. That Agreement established a multi-year strategic planning/agreement process that set forth Maryland's environmental goals, identified the programs designed to achieve those goals, established and adopted indicators to measure progress, described existing workload responsibilities, defined the State/EPA relationship, and reflected a comprehensive public participation process that will help guide future program direction.

Involving the public throughout the Environmental Performance Partnership process has been a guiding principle for the Partners. Last year, 11 formal public meetings were held at locations across the state. In addition, a wide variety of stakeholder groups were consulted regularly, and many of the key documents associated with the formation of this Agreement were posted on the Internet. The public has played a vital role in shaping each of the elements of the Agreement. The Partners have affirmed the importance of this public participation process and recognized the value the public comments have added to the Agreement.

In developing the first Agreement, the Partners realized that designing meaningful and substantive partnership agreements that will improve both the environmental results and the way



in which the Partners interact in performing their respective responsibilities, requires a long term process greater than what could be achieved during the first agreement cycle. Therefore, the Partners agreed that the first agreement would document what the environmental conditions and protection activities were at that time, and then target the FY 2000 Agreement as the time frame in which significant changes could be implemented.

The FY 1999 Agreement presents the Partners' commitments to using interagency workgroups to address 7 important issues: 1. Updating the environmental indicators used to measure and report performance; 2. Managing data systems and identifying data gaps, 3. Reducing the reporting burden on Maryland where possible; 4. Improving training coordination; 5. Better aligning the state and federal fiscal year time frames; 6. Improving interagency coordination on federal facilities; and 7. Improving public outreach efforts. The Partners anticipate that the results of the workgroups' efforts will serve as the basis for the changes envisioned in the FY 2000 Agreement.

Specifically, the Performance Partnership Agreement addresses Enforcement and Compliance and DEVELOPING A COOPERATIVE APPROACH - Both MDE and Region III agree that enforcement and compliance actions are important tools for achieving agreed-upon environmental goals and strategic priorities. MDE and the Region need to fully communicate at the appropriate level of management regarding contemplated inspections, compliance assistance, or enforcement actions. To improve the effectiveness of our efforts, it is imperative that the Partners jointly define and recognize their roles, responsibilities and overarching goals.

In this regard, the Region acknowledges that MDE carries out the bulk of inspections, enforcement and compliance assistance actions, which occur in the State of Maryland. Similarly, MDE recognizes the federal role, which includes evaluating state programs, conducting compliance inspections and follow-up enforcement actions where indicated, as well as ensuring a level playing field among states.

The Partners agree that they share the overarching goal of environmental improvement. Recognizing that they each have limited resources to devote to their respective strategic priorities aimed at achieving overall environmental improvement, the Partners will continue to develop a consultative relationship. They will also discuss opportunities to improve data management, coordination, and integration.

## **INSPECTOR TRAINING AND OUTREACH**

**T**o 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. As described last year, the Department issued an inspector survey that identified training, communication and management support as essential areas for improvement. . MDE used the inspector survey results to formulate the curriculum for future forums.

In late Fall of 1997, MDE held its first "Inspector Forum." The forum was the first in a series of training programs to give inspectors a department-wide perspective of enforcement activities and an opportunity to exchange information on common issues in their daily jobs. Management also learned from inspectors what can be done to help make their jobs easier. The Department presented the FY 97 Enforcement and Compliance Report to the inspectors to show the results of their work throughout the year. The performance measurement system was explained and managers received their input on improvements in the measures, data collection and other areas of the report

The Department held its second conference for MDE's enforcement inspectors in June 1998 to focus on those areas of needed training and important issues identified by the inspectors through

the earlier inspector survey. The conference offered 3 areas of training for inspectors including, writing effective inspection reports, recognizing criminal activities, and waste management cross training.

Evaluation results from both conferences were very extremely positive. The inspectors appreciated the opportunity to interact with management, increase communication among their peers, and obtain valuable information to help them carry out their job responsibilities. 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.

## **REGULATORY REFORM**

**R**egulatory reform can play a key role in helping the regulated community achieve and maintain compliance, while at the same time protect public health and the environment, and reduce burden for businesses. The Department is committed to providing quality service to the Department's regulated community to more effectively achieve Maryland's public health and environmental protection goals while fostering economic development. The Department has implemented a number of regulatory reforms and permit streamlining activities such as: standardizing and reducing permit turnaround times, implementing and expanding One-Stop services in the Environmental Permits Service Center, offering compliance assistance to Maryland's small business community, implementing form reform, developing new general permits, posting the Department's Business Guide to Environmental Permits and Approvals on the Internet, posting permit applications and instructions on the Internet, and is seeking to implement additional innovative permit streamlining and regulatory reform initiatives.

A primary goal of MDE is to grant or deny all permit/license applications within the standard time frames. The Department strives to review all applications efficiently and within the standard review times established for each license/permit type. The number of licenses/permits that were reviewed within the time parameters is tracked annually. MDE is also standardizing several permit conditions to streamline the permit processing.

The Department established the Environmental Permit Service Center to provide One-Stop Shop assistance to permit applicants. The Department's Permitting Administrations and Permit Center activities include: coordinating permit requests with each media administration, businesses, citizens, and environmental organizations; providing assistance to businesses through all stages of the permit process; developing and announcing standard permit turnaround times to help permitting customers know when to expect decisions on their applications; encouraging an open dialogue with all Maryland citizens, local governments, and the business and environmental communities to develop effective solutions Maryland's environmental and business challenges; maintaining a comprehensive tracking system for permits that includes status of permit applications, public participation requirements, background information on the permit, and permit renewal date; and collecting feedback and suggestions from permit applicants and then using that information to improve MDE's permitting services.

The Department works closely with the Department of Business and Economic Development to provide businesses with a thorough understanding of Maryland's regulatory requirements, and works with the regulated community and other interested stakeholders to develop permit streamlining activities and when developing new environmental regulations and permits.

## **INFORMATION TECHNOLOGY**

**M**DE's use of Information Technology will be industry competitive and cost effective, and provide the best services and information to our internal and external customers. MDE provides

information management systems and tools to employees that will support and enhance the department's business functions and assist MDE in meeting its mission. MDE must advocate greater use and management of information as a strategic resource to keep the public informed as well as protect our environment. In order to accomplish this goal, MDE is concentrating its efforts on the following management strategies:

**Office Automation.** Over the last two years, the Department has upgraded all of its computer hardware and software office automation resources to a standard level of technology. This standardization has advanced the department's productivity and has placed all employees at level playing fields for communicating within the universe of the organization. In order to maintain this continuity and continue increased productivity, MDE has changed procurement cycles, policies and procedures, and is focusing on providing remote offices with access to MDE's network.

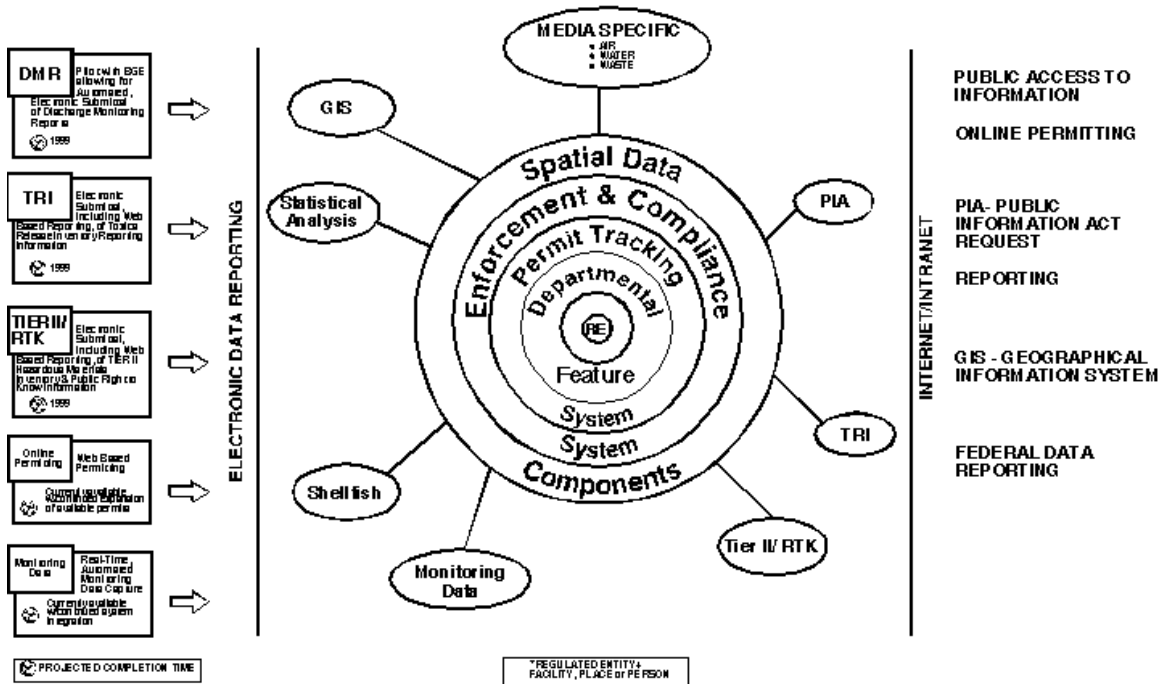
**Year 2000 Compliance.** The Department along with the State has been expending extensive time and resources to ensure our current and proposed information technology systems and business support functions are Year 2000 compliant well into the next century. The key management objectives are to inventory, identify mission critical systems and business processes, remediate, test and certify those systems and processes. This is our number one priority over the next year.

**Enterprise-wide Computing Capabilities and Multi-Media Data.** The Department has been continuing its work to develop its enterprise wide computing capabilities in key business process areas that will reduce or eliminate duplication of efforts, increase the use of multimedia data, and enhance the Department's ability to collect and manage information to support the needs of our customers, the public, and internal management. The department's key objectives are to have a fully developed, "Regulated Entity" (site/facility/person- based), enterprise database for permitting, compliance, enforcement and other key environmental data and to integrate its use at the desktop with geographic information systems.

**Customer Service and Public Access.** MDE's strategy is to increase customer service and electronic access to the public for environmental and administrative information. The key management objectives are (1) to provide tools through technology that allow MDE's customers to gain ready access to departmental information; (2) to provide services electronically to the public and regulated community. Over the last several years MDE has increased the information and services available through the Internet and electronically. For example, currently, MDE customers can track permit applications that have public participation requirements on a real time basis via the Internet, download MDE permit applications and instructions, submit information to the department electronically, and apply for several permits and make Public Information Act requests on line.

The Diagram on the following page visually portrays MDE's vision, goals and objectives for the enterprise data system, customer service and public access to information.

# ENTERPRISE DATA SYSTEM



**APPENDIX**

**ENVIRONMENTAL RESTORATION AND  
REDEVELOPMENT PROGRAM**

**STATE MASTER LIST**

(This List Provides Notice of Potential Hazardous Waste Sites)

**MARYLAND DEPARTMENT OF THE ENVIRONMENT  
FISCAL YEAR 1998 ENFORCEMENT AND COMPLIANCE REPORT**

**PAGE 147**

## Maryland Department of Environment

### State Master List

The "State Master List" identifies potential hazardous waste sites in Maryland. These sites are also commonly referred to as State superfund sites. The State Master List includes sites currently identified by the U.S. Environmental Protection Agency's Comprehensive Environmental Response, Compensation and Liability Information System ("CERCLIS"). Each State Master List site has been assigned one of four status codes as outlined below.

Inclusion of a site on the State Master List does not constitute a final decision that a response action is necessary. At the same time, the Master List is not a comprehensive list of all sites or facilities in Maryland which may have activities which generated or use hazardous or toxic substances, chemicals or petroleum products.

#### State Master List Status Code Descriptions:

**NPL: National Priorities List**

Indicates that a site is listed on the National Priorities List ("NPL"), a federal list of the nation's most severely contaminated hazardous waste sites that are generally addressed under the lead of the Environmental Protection Agency ("EPA").

**DEFERRAL: State Deferral Site**

Pursuant to a "Deferral Agreement" between the Maryland Department of Environment and EPA Region III, NPL caliber sites may be "deferred" to the State for action if it is appropriate and the State has the necessary resources and expertise to address a site.

**NFRAP: No Further Remedial Action Planned**

Indicates that EPA, based on available information at the time of evaluation, has decided not to take further action under CERCLA. This EPA decision does not mean there is no hazard associated with the property. It means only that EPA has determined that it is not among the nation's most seriously contaminated sites and does not warrant federal action.

**UI: Under Investigation**

### Formerly Investigated Sites List

The "Formerly Investigated Sites List" identifies State Master List sites at which the Department of Environment has determined that, based on available information, no further action by the State is planned.

*For further information, please contact: Donald Mauldin, Freedom of Information Act Coordinator, Waste Management Administration, Maryland Department of Environment, 2500 Broening Highway, Baltimore, MD 21224. Additional copies of the State Master List can be ordered using the form provided in the back of this booklet.*

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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**County: ALLEGANY**

**Site Name:** AETNA LUMBER (MD-458)  
**Address:** RT 6 BOX 212  
CUMBERLAND, MD 21502  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CABIN RUN LF (MD-003)  
**Address:** CABIN RUN RD  
FROSTBURG, MD 21532  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CELANESE FIBERS CO - AMCELLE PLANT (MD-031)  
**Address:** US RT 220 S  
CUMBERLAND, MD 21502  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CUMBERLAND GAS LIGHT CO (MD-195)  
**Address:** N MECHANIC ST  
CUMBERLAND, MD 21502  
**Aliases:** NONE

**Status:** NFRAP

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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**Site Name:** FROSTBURG GAS LIGHT CO (MD-197)  
**Address:** W SIDE OF GRANT ST  
FROSTBURG, MD 21532  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** HOFFMAN LF (MD-004)  
**Address:** FROSTBURG IND PARK RT 36  
FROSTBURG, MD 21532  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** KELLY SPRINGFIELD TIRE CO (MD-410)  
**Address:** 800 KELLY RD  
CUMBERLAND, MD 21502  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** KOPPERS CO INC - OLDTOWN (MD-042)  
**Address:** RUBY RD  
OLD TOWN, MD 21555  
**Aliases:** CHARLES O WALTERS

**Status:** NFRAP

**Site Name:** LAVALE WAREHOUSE FIRE (MD-328)  
**Address:** 1210 NATIONAL HWY  
LAVALE, MD 21502  
**Aliases:** NONE

**Status:** NFRAP



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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**Site Name:** LIMESTONE ROAD SITE (MD-084)  
**Address:** LIMESTONE RD OFF RT 51  
CUMBERLAND, MD 21502  
**Aliases:** CUMBERLAND CEMENT & SUPPLY, DIGGS SANITATION

**Status:** NPL

**Site Name:** OLD CUMBERLAND CITY/COUNTY DUMP (MD-139)  
**Address:** LIMESTONE RD  
CUMBERLAND, MD 21502  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** PRECISE METALS AND PLASTICS, INC (MD-339)  
**Address:** DAY RD, MEXICO FARMS INDUS PRK  
CUMBERLAND, MD 21502  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** VALE SUMMIT LF (MD-005)  
**Address:** RTS 36 & 38  
FROSTBURG, MD 21532  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WILLISON OIL COMPANY (MD-457)  
**Address:** RT 2 BOX 101  
CUMBERLAND, MD 21502  
**Aliases:** NONE

**Status:** NFRAP

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**Maryland Department of the Environment**  
**State Master List**  
September 1998  
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**County:** ANNE ARUNDEL

**Site Name:** A.S. PEARMON (MD-452)  
**Address:** 1270 HARDY RD  
ARNOLD, MD 21012  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ALCO-GRAVURE INC (MD-353)  
**Address:** 701 BALTIMORE ANNAPOLIS BLVD  
GLEN BURNIE, MD 21061  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ANNE ARUNDEL CO LF (MD-035)  
**Address:** DOVER RD  
GLEN BURNIE, MD 21061  
**Aliases:** GLEN BURNIE LF

**Status:** DEFERRAL

**Site Name:** B & O RAILROAD LF (MD-362)  
**Address:** KEMBO RD  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** UI

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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**Site Name:** BROWNING FERRIS IND - SOLLEY RD LF (MD-006)  
**Address:** 7890 SOLLEY RD  
GLEN BURNIE, MD 21061  
**Aliases:** SAN DISP INC, SOLLEY RD LF  
  
**Status:** NFRAP

**Site Name:** CHERRY PIT DRUM (MD-480)  
**Address:** 701 PITTMAN ROAD - SITE B  
BALTIMORE, MD 21226  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** COX CREEK REFINING (MD-456)  
**Address:** 1000 KEMBO RD  
BALTIMORE, MD 21226  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** DAVID TAYLOR/ANNAPOLIS - CONTROL (MD-204)  
**Address:** 640A BROADNECK RD  
ANNAPOLIS, MD 21401  
**Aliases:** NONE  
  
**Status:** UI

**Site Name:** DAVID TAYLOR/ANNAPOLIS - LAUNCH (MD-203)  
**Address:** BAY HEAD RD  
ANNAPOLIS, MD 21401  
**Aliases:** NONE  
  
**Status:** UI

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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**Site Name:** DAVIDSONVILLE - CONTROL (MD-206)  
**Address:** QUEEN ANNE BRIDGE & WAYSON RDS  
DAVIDSONVILLE, MD 21035  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** DAVIDSONVILLE - LAUNCH (MD-205)  
**Address:** 3737 ELMER HAGNER LN  
DAVIDSONVILLE, MD 21035  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** DRUMCO DRUM DUMP (MD-408)  
**Address:** ASPEN ST OFF PENNINGTON AVE  
BALTIMORE, MD 21225  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** EPA CENTRAL REGIONAL LABORATORY (MD-429)  
**Address:** 839 BESTGATE RD  
ANNAPOLIS, MD 21401  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** FORT SMALLWOOD - CONTROL (MD-208)  
**Address:** OLD NIKE MISSILE SITE RD  
PASADENA, MD 21122  
**Aliases:** NONE

**Status:** NFRAP

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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**Site Name:** FORT SMALLWOOD - LAUNCH (MD-207)  
**Address:** 9034 FORT SMALLWOOD RD  
PASADENA, MD 21122  
**Aliases:** ANNAPOLIS - NIKE

**Status:** NFRAP

**Site Name:** FRESH POND (MD-365)  
**Address:** FOREST GLEN DR  
PASADENA, MD 21122  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** GENERAL SERVICE ADMIN - CURTIS BAY DEPOT (MD-336)  
**Address:** 710 ORDNANCE RD  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** GREEN VALLEY RD SITE (MD-178)  
**Address:** GREEN VALLEY RD  
ARNOLD, MD 21012  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** HONEYWELL INC (MD-158)  
**Address:** 401 DEFENSE HWY  
ANNAPOLIS, MD 21401  
**Aliases:** NONE

**Status:** NFRAP

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**Maryland Department of the Environment**  
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**Site Name:** JOY BOEHM LF (MD-030)  
**Address:** 1373 ST STEPHENS CHURCH RD  
CROWNSVILLE, MD 21032  
**Aliases:** BOEHM JOY LF, ST STEPHENS CHURCH RD SITE

**Status:** NFRAP

**Site Name:** JOY RECLAMATION CO (MD-073)  
**Address:** 6400 ARUNDEL CORP RD  
GLEN BURNIE, MD 21061  
**Aliases:** ARUNDEL CORP RD SITE, JOY/HAMLEN RECLAMATION

**Status:** NFRAP

**Site Name:** KOP-FLEX INC (MD-286)  
**Address:** 101 HARMAN RD  
HARMON, MD 21077  
**Aliases:** KOPPERS CO INC POWER TRANS

**Status:** NFRAP

**Site Name:** MID-ATLANTIC WOOD PRESERVERS (MD-070)  
**Address:** PO BOX 58 SHIPLEY AVE  
HARMANS, MD 21077  
**Aliases:** MID-ATLANTIC HARMANS WOOD TR FACTORY

**Status:** NPL

**Site Name:** MIDDLETOWN RD DUMP SITE (MD-081)  
**Address:** MIDDLETOWN RD  
ANNAPOLIS, MD 21401  
**Aliases:** DALE DICKERSON DUMP

**Status:** UI

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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**Site Name:** NEVAMAR CORP (MD-072)  
**Address:** 8339 TELEGRAPH RD  
ODENTON, MD 21113  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** US COAST GUARD (MD-406)  
**Address:** HAWKINS POINT RD  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** UI

**Site Name:** US NAVAL STATION (MD-334)  
**Address:** ANNAPOLIS NAVAL COMPLEX  
BETHESDA, MD 20084  
**Aliases:** US NAVAL COMPLEX ANNAPOLIS

**Status:** UI

**Site Name:** USA FORT GEORGE MEADE (MD-067)  
**Address:** FT MEADE  
FT MEADE, MD 20755  
**Aliases:** USA 144TH ORDINANCE DETACHMENT, USA LUMBER STORAGE YARD, USA  
BLDG T37 SUB STA 3, USA TRAINING AREA T38, USA BUILDING 6527, CAMP  
MEADE

**Status:** UI

**Site Name:** USN COMMISSARY STORE PARK LOT AREA SOUTH (MD-059)  
**Address:** KINKAID RD  
ANNAPOLIS, MD 21402  
**Aliases:** USN NAVAL STATION LAGOON, USN RADIO TRANSMITTING FACILITY, USN  
NAVAL STATION, US NAVAL COMPLEX ANNAPOLIS

**Status:** UI

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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**Site Name:** USN NAVAL ACADEMY (MD-063)  
**Address:** PUBLIC WKS DEPT  
ANNAPOLIS, MD 21402  
**Aliases:** USN NAVAL ACADEMY WHERRY HOUSING PROJ

**Status:** NFRAP

**Site Name:** VECTRA CORP - ODENTON (MD-041)  
**Address:** 8305 TELEGRAPH RD  
ODENTON, MD 21113  
**Aliases:** ODENTON PLT, CHEVRON CHEMICAL

**Status:** NFRAP

**Site Name:** WOODS ROAD SITE (MD-192)  
**Address:** END-WOODS RD/BORDERS MAGOTHY BR. RD  
ANNAPOLIS, MD 21122  
**Aliases:** NONE

**Status:** NFRAP





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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**County: BALTIMORE**

**Site Name:** 68TH STREET DUMP (MD-174)

**Address:** 68TH ST & PULASKI HWY  
ROSEDALE, MD 21237

**Aliases:** NONE

**Status:** UI

**Site Name:** AVESTA SHEFFIELD (MD-173)

**Address:** ROLLING MILL RD  
BALTIMORE, MD 21224

**Aliases:** EASTERN STAINLESS STEEL (FORMERLY)

**Status:** NFRAP

**Site Name:** BALTIMORE GALVANIZING COMPANY INC (MD-069)

**Address:** 7110 QUAD AVE  
BALTIMORE, MD 21237

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** BATAVIA LF (MD-175)

**Address:** 619 BATAVIA FARM RD  
BALTIMORE, MD 21222

**Aliases:** NONE

**Status:** NFRAP

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**Maryland Department of the Environment**  
**State Master List**  
September 1998  
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**Site Name:** BAUER FARM (MD-297)  
**Address:** OFF NORTH PT RD & BAUERS FARM RD  
BALTIMORE, MD 21219  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** BAUSCH & LOMB, DIECRAFT (MD-155)  
**Address:** 14600 YORK RD  
SPARKS, MD 21152  
**Aliases:** NONE  
  
**Status:** DEFERRAL

**Site Name:** BEACHWOOD DEVELOPMENT (MD-388)  
**Address:** MORSE LN & TODD PT  
BALTIMORE, MD 21222  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** BENDIX CORP (MD-395)  
**Address:** 1300 JOPPA RD  
BALTIMORE, MD 21204  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** BROWNING FERRIS IND - CHEM PROCESSING CNTR (MD-018)  
**Address:** 101 NORRIS LN  
BALTIMORE, MD 21222  
**Aliases:** CHEM PROCESSING CNTR, NORRIS FARM LF  
  
**Status:** NFRAP

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**Site Name:** BUCKS STEEL DRUM (MD-187)

**Address:** 8234 ROSEBANK AVE  
BALTIMORE, MD 21222

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CIRCUIT CITY (MD-315)

**Address:** 6211 ROSSVILLE BLVD  
BALTIMORE, MD 21237

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** COLGATE PAY DUMP (MD-176)

**Address:** 6700 PULASKI HWY (I-95 @ MORAVIA)  
BALTIMORE, MD 21237

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CUTRONICS (MD-380)

**Address:** 1925 & 1941 GREENSPRING DR  
TIMONIUM, MD 21093

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** DUNDALK MARINE TERMINAL (MD-016)

**Address:** 2701 BROENING HWY  
BALTIMORE, MD 21222

**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** FORK - CONTROL (MD-210)  
**Address:** END OF HUTSCHENREUTER RD  
KINGSVILLE, MD 21057  
**Aliases:** NONE

**Status:** UI

**Site Name:** FORK - LAUNCH (MD-209)  
**Address:** OFF STOCKDALE RD  
KINGSVILLE, MD 21087  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** FOUR CORNERS (JACKSONVILLE) (MD-264)  
**Address:** JARRETSVILLE PK & SWEET AIR RD  
JACKSONVILLE, MD 21131  
**Aliases:** JACKSONVILLE SITE, FOUR CORNERS EXXON

**Status:** NFRAP

**Site Name:** GIBSON HOMANS (MD-316)  
**Address:** 1101 HANZLIK AVE  
BALTIMORE, MD 21237  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** GREENSPRING - CONTROL (MD-214)  
**Address:** GREENSPRING AVE  
GREENSPRING, MD 21117  
**Aliases:** NONE

**Status:** UI

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**Site Name:** GREENSPRING - LAUNCH (MD-213)

**Address:** RIDGE RD  
GREENSPRING, MD 21117

**Aliases:** TOWSON - NIKE

**Status:** NFRAP

**Site Name:** INDUSTRIAL ENTERPRISES (MD-184)

**Address:** 7100 QUAD AVE  
BALTIMORE, MD 21237

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** J & L INDUSTRIES INC (MD-280)

**Address:** 6923 EBENEZER RD  
BALTIMORE, MD 21220

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** KOPPERS CO (MD-285)

**Address:** GLEN ARM RD  
GLEN ARM, MD 21087

**Aliases:** UNITED CONTAINER MACHINERY GROUP INC

**Status:** NFRAP

**Site Name:** LEO J. MCCOURT DUMP (MD-309)

**Address:** MORSE RD, OFF OF NORTH POINT  
BALTIMORE, MD 21222

**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** MARTIN MARIETTA CORP (MD-172)  
**Address:** 1601 ROLLING RD  
BALTIMORE, MD 21227  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** MARTIN'S STATE AIRPORT (MD-304)  
**Address:** BOX 1 701 WILSON POINT RD  
BALTIMORE, MD 21220  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** MARTIN'S STATE AIRPORT SITE II (ANG) (MD-310)  
**Address:** EASTERN AVE AND WILSON POINT RD  
BALTIMORE, MD 21220  
**Aliases:** AIR NATIONAL GUARD

**Status:** UI

**Site Name:** MARYVALE PREPARATORY SCHOOL (MD-389)  
**Address:** 11300 FALLS RD  
BROOKLANDVILLE, MD 21022  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** METALS & RESIDUES PROCESSING (MD-277)  
**Address:** 10107 MARBLE CT  
COCKEYSVILLE, MD 21030  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** METALS AND RESIDUES PROCESSING (MD-276)

**Address:** 4400 MILFORD MILL RD  
BALTIMORE, MD 21208

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** NATIONAL CIRCUIT INC-TIMONIUM PROPERTY (MD-464)

**Address:** 108 TIMONIUM RD  
BALTIMORE, MD 21204

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** NATIONAL CIRCUITS INC-PIKESVILLE PROPERTY (MD-463)

**Address:** PARK CIRCLE  
BALTIMORE, MD 21209

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** OH WILLIAMSON (MD-238)

**Address:** WILLIAMSON LN  
COCKEYSVILLE, MD 21030

**Aliases:** MANN & PARKER LUMBER CO

**Status:** NFRAP

**Site Name:** PARKTON LF (MD-449)

**Address:** I-83 & STABLERS CHURCH ROAD  
PARKTON, MD 21120

**Aliases:** NONE

**Status:** NFRAP



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**Site Name:** REISTERS PROPERTY (MD-331)  
**Address:** JUNCTION MD RTS 30 & 140  
REISTERSTOWN, MD 21136  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** RELAY MUD SLIDE (MD-166)  
**Address:** WOODLAND DR & VIADUCT AVE  
BALTIMORE, MD 21227  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** RM WINSTEAD CO (MD-133)  
**Address:** 68TH ST & PULASKI HWY  
BALTIMORE, MD 21237  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** SAFETY KLEEN CORP - CATONSVILLE (MD-349)  
**Address:** 1012-1/2 LESLIE AVE  
BALTIMORE, MD 21228  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** SAUER DUMP (MD-181)  
**Address:** 4225 LYNHURST RD  
BALTIMORE, MD 21222  
**Aliases:** NONE

**Status:** UI

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**Site Name:** SECURITY BLVD SITE (MD-188)  
**Address:** 1718 K BELMONT AVE  
BALTIMORE, MD 21207  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** SMUCK DUMP (MD-080)  
**Address:** HOLLINS FERRY RD  
LANDSDOWNE, MD 21227  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** SPARROWS POINT (MD-479)  
**Address:** PATAPSCO RIVER  
BALTIMORE, MD 21226  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** STANSBURY PARK (MD-265)  
**Address:** STANSBURY & HYDRANGEA RDS  
BALTIMORE, MD 21222  
**Aliases:** NONE  
  
**Status:** UI

**Site Name:** SUN CHEMICAL CORP - GPI DIV (MD-288)  
**Address:** 42 GWYNNS MILL CT  
OWINGS MILLS, MD 21117  
**Aliases:** NONE  
  
**Status:** NFRAP

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**Site Name:** THOMPSON STEEL COMPANY INC (MD-289)

**Address:** NORTH POINT BLVD  
BALTIMORE, MD 21219

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** TOWSON LAUNCH BA - 92 (MD-412)

**Address:** RIDGE RD NEAR RT 45  
TOWSON, MD 21136

**Aliases:** NONE

**Status:** UI

**Site Name:** US ARMY PHOENIX - CONTROL (MD-157)

**Address:** SUNNYBROOK RD  
JACKSONVILLE, MD 21131

**Aliases:** USA PHOENIX NIKE SITE (FCA), PHOENIX NIKE, PHOENIX MILITARY  
RESERVATION

**Status:** NFRAP

**Site Name:** US ARMY PHOENIX - LAUNCH (MD-234)

**Address:** PAPERMILL RD  
JARRETSVILLE, MD 21131

**Aliases:** NONE

**Status:** UI

**Site Name:** VULCAN MATERIALS METALS DIV (MD-132)

**Address:** 2415 GRAYS RD  
BALTIMORE, MD 21219

**Aliases:** NONE

**Status:** NFRAP

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**County:** **BALTIMORE CITY**

**Site Name:** 1ST PLANT (MD-147)  
**Address:** GUILFORD & SARATOGA STS  
BALTIMORE, MD 21201  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** 2ND PLT (MD-148)  
**Address:** SARATOGA & HOLIDAY STS  
BALTIMORE, MD 21201  
**Aliases:** HOLIDAY PLT

**Status:** NFRAP

**Site Name:** 4TH GAS HOUSE (MD-160)  
**Address:** LANCASTER AND PATAPSCO STS  
BALTIMORE, MD 21201  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** AINSWORTH PAINT MFG SITE (MD-473)  
**Address:** 3200 E BIDDLE ST  
BALTIMORE, MD 21231  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** ALLIED CHEM CORP - AG PLT (MD-010)  
**Address:** 2000 RACE ST  
BALTIMORE, MD 21231  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ALLIED CHEM CORP - BALTIMORE WKS (MD-013)  
**Address:** BLOCK & WILLS STS  
BALTIMORE, MD 21231  
**Aliases:** BALTIMORE WKS

**Status:** NFRAP

**Site Name:** AMERICAN CHEMMATE (MD-152)  
**Address:** HOWARD & WEST STS  
BALTIMORE, MD 21230  
**Aliases:** CHEMICAL SERVICES

**Status:** NFRAP

**Site Name:** AMERICAN NATIONAL CAN CO (MD-352)  
**Address:** BOSTON & HUDSON STS  
BALTIMORE, MD 21224  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** AMERICAN RECOVERY CORP (MD-011)  
**Address:** 1901 BIRCH ST  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** AMOCO OIL CO (MD-105)  
**Address:** 3901 ASIATIC AVE  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ANCHOR HOCKING CORP - CARR LOWREY GLASS (MD-140)  
**Address:** 2201 KLOMAN ST  
BALTIMORE, MD 21230  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ARMCO BALTIMORE WKS (MD-106)  
**Address:** 3501 E BIDDLE ST  
BALTIMORE, MD 21213  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** BALTIMORE IRON & METAL (MD-257)  
**Address:** PIER 11 PATAPSCO RIVER E  
BALTIMORE, MD 21224  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** BALTIMORE STEEL DRUM CORP (MD-051)  
**Address:** 910 KRESSON ST  
BALTIMORE, MD 21224  
**Aliases:** STEEL DRUM SITE

**Status:** NFRAP

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**Site Name:** BAYARD STATION (MD-161)  
**Address:** BAYARD AND BUSH ST  
BALTIMORE, MD 21201  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** BLOEDE MANUFACTURER PROPERTY (MD-466)  
**Address:** CORNER OF WILKENS & CATON AVE  
BALTIMORE, MD 21229  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** BOARMAN, JW CO, INC (MD-283)  
**Address:** 2821-23 FOSTER AVE  
BALTIMORE, MD 21224  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** BOWLEY'S LANE LF (MD-154)  
**Address:** MORAVIA RD  
BALTIMORE, MD 21205  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** BROWNING FERRIS IND - QUARANTINE RD (MD-019)  
**Address:** 5901 QUARANTINE RD  
BALTIMORE, MD 21226  
**Aliases:** ROBB TYLER (BFI PORTION), QUARANTINE RD

**Status:** NFRAP

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**Site Name:** BRUNING PAINT CO (MD-273)  
**Address:** 601 S HAVEN ST  
BALTIMORE, MD 21224  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CANTON STATION (MD-159)  
**Address:** FAIT AND LAKEWOOD STS  
BALTIMORE, MD 21201  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CAPITAL ASSAY LABS SITE (MD-253)  
**Address:** 2901 WHITTINGTON AVE  
BALTIMORE, MD 21230  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CHEMICAL METALS IND (MD-082)  
**Address:** 2001 & 2103 ANNAPOLIS RD  
BALTIMORE, MD 21230  
**Aliases:** CMI

**Status:** NFRAP

**Site Name:** CHESAPEAKE FINISHED METALS INC (MD-274)  
**Address:** 6754 SANTA BARBARA CT  
BALTIMORE, MD 21227  
**Aliases:** NONE

**Status:** NFRAP



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**Site Name:** CHEVRON USA - BALTIMORE REFINERY (MD-143)  
**Address:** 1955 CHESAPEAKE AVE  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CONOCO CHEMICAL CO BALTIMORE PLT (MD-109)  
**Address:** 3441 FAIRFIELD RD  
BALTIMORE, MD 21226  
**Aliases:** VISTA CHEMICAL CORP

**Status:** NFRAP

**Site Name:** CONOCO INC BALTIMORE TERM (MD-110)  
**Address:** 3410 FAIRFIELD RD  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CONRAIL ORANGEVILLE YARD (MD-263)  
**Address:** 6000 E LOMBARD ST  
BALTIMORE, MD 21201  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CONTINENTAL CAN CO - USA PLANT #16 (MD-354)  
**Address:** 3701 DUNCANWOOD LANE  
BALTIMORE, MD 21213  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** CROWN CENTRAL PETROLEUM CORP (MD-113)  
**Address:** 1622 S CLINTON ST  
BALTIMORE, MD 21224  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** CROWN CENTRAL PETROLEUM CORP (MD-112)  
**Address:** 6000 PENNINGTON AVE  
BALTIMORE, MD 21226  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** DIAMOND SHAMROCK CORP CHEMETALS DIV (MD-071)  
**Address:** 711 PITTMAN RD  
BALTIMORE, MD 21226  
**Aliases:** CHEMETALS CORP  
  
**Status:** NFRAP

**Site Name:** DYNASURF CHEMICAL CORP (MD-153)  
**Address:** 1411 FLEET ST  
BALTIMORE, MD 21231  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** E FEDERAL ST SITE (MD-379)  
**Address:** E OF 3520 E FEDERAL ST  
BALTIMORE, MD 21213  
**Aliases:** NONE  
  
**Status:** NFRAP

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**Site Name:** ESTECH GENERAL CHEM CO (MD-114)

**Address:** 5500 CHEM RD  
BALTIMORE, MD 21226

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** EXXON CO USA (MD-091)

**Address:** 3801 BOSTON ST  
BALTIMORE, MD 21224

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** FMC CORP (MD-017)

**Address:** 1701 E PATAPSCO AVE  
BALTIMORE, MD 21226

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** FORT HOLABIRD CRIME RECORDS CENTER (MD-411)

**Address:** CORNER OF OAKLAND & DETROIT AVES  
BALTIMORE, MD 21222

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** HAWKINS PT - MD PORT ADMIN (MD-007)

**Address:** HAWKINS PT RD  
BALTIMORE, MD 21202

**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** CROWN CENTRAL PETROLEUM CORP (MD-113)  
**Address:** 1622 S CLINTON ST  
BALTIMORE, MD 21224  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** CROWN CENTRAL PETROLEUM CORP (MD-112)  
**Address:** 6000 PENNINGTON AVE  
BALTIMORE, MD 21226  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** DIAMOND SHAMROCK CORP CHEMETALS DIV (MD-071)  
**Address:** 711 PITTMAN RD  
BALTIMORE, MD 21226  
**Aliases:** CHEMETALS CORP  
  
**Status:** NFRAP

**Site Name:** DYNASURF CHEMICAL CORP (MD-153)  
**Address:** 1411 FLEET ST  
BALTIMORE, MD 21231  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** E FEDERAL ST SITE (MD-379)  
**Address:** E OF 3520 E FEDERAL ST  
BALTIMORE, MD 21213  
**Aliases:** NONE  
  
**Status:** NFRAP

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**Site Name:** ESTECH GENERAL CHEM CO (MD-114)

**Address:** 5500 CHEM RD  
BALTIMORE, MD 21226

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** EXXON CO USA (MD-091)

**Address:** 3801 BOSTON ST  
BALTIMORE, MD 21224

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** FMC CORP (MD-017)

**Address:** 1701 E PATAPSCO AVE  
BALTIMORE, MD 21226

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** FORT HOLABIRD CRIME RECORDS CENTER (MD-411)

**Address:** CORNER OF OAKLAND & DETROIT AVES  
BALTIMORE, MD 21222

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** HAWKINS PT - MD PORT ADMIN (MD-007)

**Address:** HAWKINS PT RD  
BALTIMORE, MD 21202

**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** HIGHLAND TOWN GAS (MD-233)  
**Address:** 3913 PULASKI HWY  
BALTIMORE, MD 21224  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** HUTTON AVENUE LF, E & W (MD-367)  
**Address:** 4825-4835 WINDSOR MILL RD  
BALTIMORE, MD 21207  
**Aliases:** RIDGETOP ROAD DUMP

**Status:** UI

**Site Name:** KANE & LOMBARD ST DRUMS (MD-169)  
**Address:** KANE & LOMBARD STS  
BALTIMORE, MD 21224  
**Aliases:** NONE

**Status:** NPL

**Site Name:** KEY HWY SHIPYARD (MD-340)  
**Address:** 1101 KEY HWY  
BALTIMORE, MD 21230  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** KOPPERS CO BALTIMORE TREATING PLT LF (MD-021)  
**Address:** FOOT OF CHILDS ST FAIRFIELD  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** KOPPERS CO INC - METAL PRODUCTS DIV (MD-431)  
**Address:** 200 SCOTT ST  
BALTIMORE, MD 21230  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** KOPPERS CO INC- ENGR MET PROD G (MD-284)  
**Address:** 1400 BUSH ST  
BALTIMORE, MD 21230  
**Aliases:** KAYDON RING & SEAL INC  
  
**Status:** NFRAP

**Site Name:** LOCOMOTIVE JUNKYARD (MD-258)  
**Address:** BALTIMORE, MD 21201  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** M & T CHEMICALS INC (MD-118)  
**Address:** 1900 CHESAPEAKE AVE  
BALTIMORE, MD 21226  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** MONUMENT ST LF (MD-092)  
**Address:** MONUMENT ST & EDISON HWY  
BALTIMORE, MD 21205  
**Aliases:** NONE  
  
**Status:** NFRAP

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**Site Name:** MORGAN STATE UNIVERSITY SITE (MD-471)  
**Address:** COLD SPRING LN & HILLEN RD  
BALTIMORE, MD 21239  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** MRI CORP (MD-119)  
**Address:** 414 CHESAPEAKE AVE  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** NIH-NIA GERONTOLOGY RESEARCH CNTR (MD-434)  
**Address:** 4040 EASTERN AVE  
BALTIMORE, MD 21224  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** NOVA-KOTE INC. (MD-421)  
**Address:** 7615 ENERGY PARKWAY  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** OLGA NELSON ENTERPRISES (MD-272)  
**Address:** 7269 WASHINGTON BLVD  
BALTIMORE, MD 21227  
**Aliases:** NONE

**Status:** NFRAP



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**Site Name:** OLIN CORP - CURTIS BAY (MD-014)

**Address:** 5501 PENNINGTON AVE  
BALTIMORE, MD 21226

**Aliases:** CURTIS BAY PLANT

**Status:** NFRAP

**Site Name:** PEMCO PRODUCTS (MD-055)

**Address:** 5601 EASTERN AVE  
BALTIMORE, MD 21224

**Aliases:** MOBAY CHEMICAL CORP PEMCO PROD DIV

**Status:** NFRAP

**Site Name:** PICORP INC (MD-179)

**Address:** 6508 E LOMBARD ST  
BALTIMORE, MD 21224

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** PLATING SITE (MD-249)

**Address:** 1009 W BALTIMORE ST  
BALTIMORE, MD 21223

**Aliases:** UNION PLATING, UNION ART GOLD AND SILVER

**Status:** NFRAP

**Site Name:** PORT LIBERTY INDUSTRIAL PARK (MD-422)

**Address:** 1900 FRANKFURST AVE.  
BALTIMORE, MD 21230

**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** REEDBIRD LF (MD-020)  
**Address:** POTE ST & ROADBIRD AVE  
BALTIMORE, MD 21202  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ROBERT E. LEE PARK/LAKE ROLAND BRIDGE (MD-383)  
**Address:** RAILROAD MARKER 387  
BALTIMORE, MD 21209  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** SAFETY KLEEN CORP (MD-343)  
**Address:** 1448-50 DESOTO RD  
BALTIMORE, MD 21230  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** SCM CORP QUARANTINE RD SITE (MD-009)  
**Address:** 5901 QUARANTINE RD  
BALTIMORE, MD 21226  
**Aliases:** ROBB TYLER LF

**Status:** NFRAP

**Site Name:** SCOTT ST STATION (MD-191)  
**Address:** SCOTT & OSTEND STS  
BALTIMORE, MD 21230  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** SEVERN ST STATION (MD-245)  
**Address:** 1400 BLK SEVERN ST  
BALTIMORE, MD 21230  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** SHERWIN WILLIAMS (MD-279)  
**Address:** 2325 HOLLINS FERRY RD  
BALTIMORE, MD 21230  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** SMITH, F. BOWIE & SON INC (MD-244)  
**Address:** 4500 E LOMBARD ST  
BALTIMORE, MD 21224  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** SNOW HILL LANE SITE (MD-201)  
**Address:** SNOW HILL LN & CEDAR HILL LN  
BALTIMORE, MD 21225  
**Aliases:** CHERKOFF SITE

**Status:** NFRAP

**Site Name:** SOUTHGATE INDUSTRIAL PARK (MD-378)  
**Address:** 2147 WICOMICO ST  
BALTIMORE, MD 21201  
**Aliases:** NONE

**Status:** UI

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**Site Name:** SPRING GARDENS (MD-145)  
**Address:** FORT & LEADENHALL STS  
BALTIMORE, MD 21201  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** STIEGAL SUPPLY & EQUIPMENT CO (MD-312)  
**Address:** 6001 CHEMICAL RD  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** TANK BARGE #626 (MD-390)  
**Address:** PIER ONE - CLINTON STREET  
BALTIMORE, MD 21224  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** TEXACO INC (MD-131)  
**Address:** 3820 FOURTH AVE  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WR GRACE & CO - DAVIDSON CHEM DIV (MD-015)  
**Address:** 5500 CHEMICAL RD  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** NFRAP

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**County:** CALVERT

**Site Name:** USN NAVAL RESEARCH LAB - CHES BAY DETACH (MD-062)

**Address:** MD RD 261  
RANDLE CLIFF BEACH, MD 20732

**Aliases:** USN NAVAL RESEARCH LAB, USN CHES BAY DETACH PAST CHEM LF, USN  
CHES BAY DETACH BLDG 4

**Status:** UI

**Site Name:** USN SURFACE WARFARE CNTR-SOLOMON'S ISLAND (MD-058)

**Address:** DEPT OF THE NAVY  
SOLOMON'S ISLAND, MD 20688

**Aliases:** NONE

**Status:** UI

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**County:** CAROLINE

**Site Name:** OLD WEST DENTON DUMP (MD-438)  
**Address:** RIVER RD  
DENTON, MD 21629  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** RELIANCE WOOD PRESERVING CO (MD-240)  
**Address:** RELIANCE RD  
FEDERALSBURG, MD 21632  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** SKIPJACK CHEMICALS, INC. (MD-416)  
**Address:** RT 2 BOX 26E  
DENTON, MD 21629  
**Aliases:** NONE

**Status:** NFRAP

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**County:** **CARROLL**

**Site Name:** 3M NATIONAL ADVER - WESTMINSTER (MD-345)  
**Address:** 1030 BALTIMORE BLVD  
WESTMINSTER, MD 21157  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** BACHMAN VALLEY LF - LOCATION II (MD-467)  
**Address:** 1920 BACHMAN VALLEY RD  
MANCHESTER, MD 21102  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** BACHMANS VALLEY LF (MD-333)  
**Address:** 1920 BACHMANS VALLEY RD  
MANCHESTER, MD 21102  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** BLACK & DECKER (MD-370)  
**Address:** 10 NORTH PARK DR  
HAMPSTEAD, MD 21074  
**Aliases:** NONE

**Status:** DEFERRAL

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**Site Name:** CATALYST RESEARCH (MD-142)  
**Address:** 1125 POOLE RD  
WESTMINSTER, MD 21157  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CRANBERRY RUN SUB STATION (MD-190)  
**Address:** OLD MANCHESTER RD  
WESTMINSTER, MD 21157  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** HODGES LF (MD-447)  
**Address:** HODGES RD  
ELDERSBURG, MD 21784  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** KATE WAGNER LF (MD-322)  
**Address:** RT 27 & RIDGE RD  
WESTMINSTER, MD 21157  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** LANGS JUNKYARD (MD-371)  
**Address:** RT 30 BETWEEN 232 & 242  
HAMPSTEAD, MD 21074  
**Aliases:** NONE

**Status:** NFRAP



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**Site Name:** LEHIGH PORTLAND CEMENT COMPANY (MD-437)

**Address:** 117 SOUTH MAIN STREET  
UNION BRIDGE, MD 21791

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** MIL SPEC FASTENERS CORP (MD-332)

**Address:** RT 30 BOX 59A - HANOVER PIKE  
HAMPSTEAD, MD 21074

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** NORTH CARROLL SHOPPING PLAZA (MD-320)

**Address:** RT 30 & BRODBECK RD  
HAMPSTEAD, MD 21074

**Aliases:** NONE

**Status:** DEFERRAL

**Site Name:** POWRMATIC INC (MD-167)

**Address:** INDUSTRIAL PARK DR  
FINKSBURG, MD 21048

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** RAY'S AUTO PARTS E.R. (MD-478)

**Address:** 7571 MIDDLEBERG ROAD  
DETOUR, MD

**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** SMALL LAB SITE (MD-392)  
**Address:** 7606 PATAPSCO RD  
SYKESVILLE, MD 21784  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** W DORSEY PROPERTY (MD-357)  
**Address:** 804 E RIDGEVILLE RD  
MT AIRY, MD 21773  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WESTMINSTER PLANT (MD-146)  
**Address:** GEORGE ST  
WESTMINSTER, MD 21157  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WOLF HILL (MD-307)  
**Address:** OFF OF RT 30  
HAMPSTEAD, MD 21074  
**Aliases:** NONE

**Status:** NFRAP

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**County:**    **CECIL**

**Site Name:**  ANCHOR MARINA ASSESSMENT (MD-474)  
**Address:**    .5 OFF RT 272 IRIQUOIS DR  
                  NORTH EAST, MD 21901  
**Aliases:**    NONE

**Status:**      NFRAP

**Site Name:**  BIG ELK CHAPEL ROAD LF (MD-385)  
**Address:**    OFF BIG ELK CHAPEL RD  
                  PROVIDENCE, MD 21921  
**Aliases:**    NONE

**Status:**      NFRAP

**Site Name:**  CECIL COUNTY LF (MD-027)  
**Address:**    OLD ELK NECK RD  
                  ELKTON, MD 21901  
**Aliases:**    ELK NECK LF

**Status:**      NFRAP

**Site Name:**  CENTRAL CHEMICAL CO (MD-325)  
**Address:**    TRINCO INDUSTRIAL PARK  
                  ELKTON, MD 21921  
**Aliases:**    NONE

**Status:**      NFRAP

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**Site Name:** CHILDS PROPERTY (MD-318)  
**Address:** 180 CHILDS RD  
CHILDS, MD 21921  
**Aliases:** PAUL MRAZ

**Status:** NFRAP

**Site Name:** CROUSE BROS EXCAVATING INC (MD-314)  
**Address:** PULASKI HWY & RT 279  
ELKTON, MD 21921  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** DWYER PROPERTY (MD-313)  
**Address:** RTS 279 & 545 PARCEL 1037 SW  
ELKTON, MD 21921  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ELKTON FARM (MD-433)  
**Address:** 183 ZEITLER RD  
ELKTON, MD 21921  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ELKTON GAS LIGHT CO (MD-196)  
**Address:** WATER ST  
ELKTON, MD 21921  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** FIRESTONE PERRYVILLE PLANT (MD-439)  
**Address:** FIRESTONE RD & RT #7  
PERRYVILLE, MD 21903  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** GE RAIL (MD-294)  
**Address:** TRINCO INDUSTRIAL PARK  
ELKTON, MD 21921  
**Aliases:** P & R RAILCAR SERV CORP  
  
**Status:** NFRAP

**Site Name:** HOG HILL LF (MD-440)  
**Address:** RT 7  
ELKTON, MD 21921  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** HOPKINS QUARRY (MD-450)  
**Address:** HOPKINS QUARRY  
PORT DEPOSIT, MD 21904  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** IP INC (MD-372)  
**Address:** TRINCO INDUSTRIAL PARK  
ELKTON, MD 21921  
**Aliases:** NONE  
  
**Status:** NFRAP

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**Site Name:** IRON HILL ROAD DRUM SITE (MD-254)  
**Address:** 117 IRON HILL RD  
ELKTON, MD 21921  
**Aliases:** PYRONICS INC

**Status:** NFRAP

**Site Name:** LOUISA LANE DUMPSITE (MD-259)  
**Address:** LOUISA LANE EXT  
CHARLESTOWN, MD 21914  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** MALMO FARMS (MD-189)  
**Address:** 1435 CAYOTS CORNER RD  
CHESAPEAKE CITY, MD 21915  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** MONTGOMERY BROTHERS (MD-137)  
**Address:** OFF NAZARENE CAMP RD  
NORTHEAST, MD 21921  
**Aliases:** NORTH EAST DUMP

**Status:** NFRAP

**Site Name:** NATIONAL FIREWORKS (MD-386)  
**Address:** FAIRHILL RD PARCELS 75 & 1075  
ELKTON, MD 21921  
**Aliases:** VICON PROPERTY

**Status:** NFRAP

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**Site Name:** NAVAL TRAINING CENTER BAINBRIDGE (MD-430)  
**Address:** US HWY 222  
BAINBRIDGE, MD 21904  
**Aliases:** NONE

**Status:** UI

**Site Name:** OLD ELKTON DUMP (MD-074)  
**Address:** JONES CHAPEL RD  
ELKTON, MD 21921  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ORDNANCE PRODUCTS INC (MD-268)  
**Address:** MECHANICS VALLEY RD  
NORTHEAST, MD 21901  
**Aliases:** MECHANICS VALLEY ORDNANCE SITE

**Status:** NPL

**Site Name:** PRINCIPIO RD (MD-455)  
**Address:** 551 PRINCIPIO RD  
CRAIGTOWN, MD 21904  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** REEVES SITE (MD-369)  
**Address:** 400 MARLEY RD  
ELKTON, MD 21921  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** RMR (MD-472)  
**Address:** 695 N BRIDGE ST  
ELKTON, MD 21921  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** RT 7 CHEM DUMP SITE (MD-075)  
**Address:** 1.9 MILES W OF RT 40  
ELKTON, MD 21921  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** SAND GRAVEL & STONE SITE (MD-033)  
**Address:** RT 40  
ELKTON, MD 21921  
**Aliases:** ELKTON QUARRY, MD SAND & GRAVEL

**Status:** NPL

**Site Name:** SPECTRON INC (MD-045)  
**Address:** 111 PROVIDENCE RD  
ELKTON, MD 21921  
**Aliases:** GALAXY CHEMICAL, SOLVENT DISTILLERS

**Status:** NPL

**Site Name:** STAUFFER CHEM CO (MD-099)  
**Address:** BLUEBELL RD TRINCO IND COM  
ELKTON, MD 21921  
**Aliases:** GE RAILCAR, P&R SERV CORP

**Status:** NFRAP



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**Site Name:** STEMMERS RUN (MD-451)  
**Address:** STEMMERS RUN RD  
EARLESVILLE, MD 21911  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** THIOKOL CORP ELKTON (MD-100)  
**Address:** RT 40  
ELKTON, MD 21921  
**Aliases:** MORTON-THIOKOL, CIBA-GEIGY

**Status:** NFRAP

**Site Name:** TRIUMPH INDUSTRIAL PARK (MD-303)  
**Address:** 3 BLUE BALL RD - PO BOX 1130  
ELKTON, MD 21921  
**Aliases:** W.L. GORE

**Status:** NFRAP

**Site Name:** USCG BACK CREEK REAR RANGE STRUCTURE (MD-156)  
**Address:** 25 FT SQUARE POSITION  
CHESAPEAKE CITY, MD 21915  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** VICON PROPERTY (MD-366)  
**Address:** DOGWOOD & SINGERLY RDS  
ELKTON, MD 21921  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** WHITTAKER TROJAN YACHT (MD-402)

**Address:** OLDFIELD POINT RD  
ELKTON, MD 21921

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WL GORE - CHERRY HILL (MD-337)

**Address:** 2401 SINGERLY RD  
ELKTON, MD 21921

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WOODLAWN CO LF (MD-050)

**Address:** FIRE TOWER & WAIBEL RDS  
WOODLAWN, MD 21904

**Aliases:** WOODLAWN TRANSFER STATION, WOODLAWN LF

**Status:** NPL

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**County:** CHARLES

**Site Name:** BLOSSOM POINT FIELD TEST AREA (MD-136)

**Address:** CEDAR POINT NECK  
LA PLATA, MD 20646

**Aliases:** DIAMOND LABS TEST AREA

**Status:** UI

**Site Name:** CHARLES COUNTY SANITARY LF (MD-261)

**Address:** RT 425  
PISGAH, MD 20640

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** HUGHESVILLE TIRE SITE (MD-317)

**Address:** GALLANT GREEN RD  
HUGHESVILLE, MD 20601

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** INDIAN HEAD NAVAL SURFACE WARFARE CENTER (MD-064)

**Address:** RT 210  
INDIAN HEAD, MD 20640

**Aliases:** USN NAVAL ORDNANCE STATION - 1006

**Status:** UI

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**Site Name:** POMONKEY - CONTROL (MD-218)

**Address:** BUMPY OAK RD  
POMONKEY, MD 20646

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** POMONKEY - LAUNCH (MD-217)

**Address:** BUMPY OAK RD  
POMONKEY, MD 20646

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** US NAVAL RESEARCH LAB - CONTROL (MD-216)

**Address:** END OF LAUREL BRANCH RD  
WALDORF, MD 20601

**Aliases:** NONE

**Status:** UI

**Site Name:** US NAVAL RESEARCH LAB - LAUNCH (MD-215)

**Address:** BERRY RD  
WALDORF, MD 20601

**Aliases:** NRL WALDORF

**Status:** UI

**Site Name:** WALDORF - CONTROL (MD-219)

**Address:** COUNTRY LN  
WALDORF, MD 20601

**Aliases:** W-44

**Status:** NFRAP

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**County: DORCHESTER**

**Site Name:** BEULAH LF (MD-299)

**Address:** RT 331  
BEULAH, MD 21643

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CAMBRIDGE CY DISP PLT WWTP (MD-026)

**Address:** 1010 ROSELYN AVE  
CAMBRIDGE, MD 21613

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CAMBRIDGE SITE (MD-025)

**Address:** 311 TRENTON  
CAMBRIDGE, MD 21613

**Aliases:** KERR MCGEE

**Status:** NFRAP

**Site Name:** CAMBRIDGE TOWN GAS (MD-165)

**Address:** 403 CHERRY ST  
CAMBRIDGE, MD 21613

**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** CONTINENTAL CAN CO - USA PLANT 24 (MD-342)  
**Address:** RAILROAD AVE  
HURLOCK, MD 21643  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** EASTERN MD WOOD TREATING CO (MD-242)  
**Address:** CLARKS CANNING HOUSE RD  
FEDERALSBURG, MD 21632  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** NELSONS BODY SHOP (MD-420)  
**Address:** RT 16 & CHESAPEAKE DR  
CAMBRIDGE, MD 21613  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** USN BLOODSWORTH ARCHIPELAGO (MD-086)  
**Address:** N POTOMAC R RUNS CHESPKE BAY  
N/A, MD 21613  
**Aliases:** NONE  
  
**Status:** UI

**Site Name:** WESTERN PUBLISHING CO (MD-290)  
**Address:** WOODS RD  
CAMBRIDGE, MD 21613  
**Aliases:** NONE  
  
**Status:** NFRAP

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**County:** **FREDERICK**

**Site Name:** ABRAMSON PROPERTY (MD-384)

**Address:** 9925 PINE TREE RD  
WOODSBORO, MD 21798

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** EASTALCO ALUMINUM CO (MD-202)

**Address:** 5601 MANOR WOODS RD  
FREDERICK, MD 21701

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** FORT DETRICK AREA B (MD-428)

**Address:** ROSEMONT AVE  
FREDERICK, MD 21701

**Aliases:** NONE

**Status:** UI

**Site Name:** FREDERICK TOOL AND DIE CO INC (MD-356)

**Address:** 579 E CHURCH ST  
FREDERICK, MD 21701

**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** FREDERICK TOWN GAS (MD-164)

**Address:** 350 CHURCH ST  
FREDERICK, MD 21701

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** NCI FREDERICK CANCER RESEARCH (MD-066)

**Address:** FT DETRICK  
FREDERICK, MD 21701

**Aliases:** NONE

**Status:** UI

**Site Name:** TRANS TECH - ADAMSTOWN SITE (MD-250)

**Address:** ADAMSTOWN RD  
ADAMSTOWN, MD 21710

**Aliases:** ADAMSTOWN GROUNDWATER SITE

**Status:** NFRAP

**Site Name:** USA FORT DETRICK (MD-076)

**Address:** FT DETRICK  
FREDERICK, MD 21701

**Aliases:** FREDERICK CANCER RESEARCH CENTER

**Status:** UI

**Site Name:** USN NAVAL SUPPORT FACILITY (MD-060)

**Address:** PO BOX 1000  
THURMONT, MD 21788

**Aliases:** USN NAVAL SUPPLY FACILITIES

**Status:** UI



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**County:** **GARRETT**

**Site Name:** BAUSCH & LOMB INC - OAKLAND PLANT (MD-347)

**Address:** RT 135  
OAKLAND, MD 21550

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** HARBISON WALKER REFRACTORIES - NEW SAVAGE (MD-351)

**Address:** RT 495  
GRANTSVILLE, MD 21536

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** OAKLAND JUNKYARD SITE (MD-255)

**Address:** RT 219  
OAKLAND, MD 21053

**Aliases:** ERNIE MARTINS

**Status:** NFRAP

**Site Name:** TEXAS EASTERN - ACCIDENT STATION (MD-271)

**Address:** FRIENDSVILLE RD  
ACCIDENT, MD 21520

**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** UMBELL PROPERTY (MD-441)  
**Address:** RT 1 BOX 81  
FRIENDSVILLE, MD 21531  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WOOD PRODUCTS (MD-239)  
**Address:** 8TH ST EXT  
OAKLAND, MD 21550  
**Aliases:** NONE

**Status:** NFRAP

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**County:** **HARFORD**

**Site Name:** ABERDEEN DUMP (MD-001)

**Address:** MICHAEL LN  
ABERDEEN, MD 21001

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ABERDEEN PROVING GROUND - EDGEWOOD AREA (MD-032)

**Address:** OFF RT 40  
ABERDEEN, MD 21001

**Aliases:** USA APG, USA EDGEWOOD ARSENAL, USCG-UPPER CHESAPEAKE RANGE  
USCG - POOLE ISLAND RANGE

**Status:** NPL

**Site Name:** ABERDEEN PROVING GROUND-MICHAELSVILLE LF (MD-065)

**Address:** OFF RT 40  
ABERDEEN, MD 21005

**Aliases:** USA EDGEWOOD ARSENAL, USCG - POOLE ISLAND RANGE, USCG - UPPER  
CHESAPEAKE RANGE

**Status:** NPL

**Site Name:** ABINGDON LF (MD-301)

**Address:** RT 7  
ABINGDON, MD 21009

**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** BATA SHOE - LATEX LAGOON (MD-296)  
**Address:** BELCAMP RD  
BELCAMP, MD 21017  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** BATA SHOE - MAIN PLANT (MD-077)  
**Address:** US RT 40  
BELCAMP, MD 21017  
**Aliases:** NONE  
  
**Status:** DEFERRAL

**Site Name:** BRAXTON PROPERTY LF (MD-460)  
**Address:** BUSH RD  
ABINGDON, MD 21009  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** BUSH VALLEY LF (MD-002)  
**Address:** BUSH RD - PO BOX 246  
ABINGDON, MD 21009  
**Aliases:** HARRIS LF  
  
**Status:** NPL

**Site Name:** HAVRE DE GRACE DUMP (MD-037)  
**Address:** QUARRY RD  
HAVRE DE GRACE, MD 21078  
**Aliases:** NONE  
  
**Status:** NFRAP

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**Site Name:** HAVRE DE GRACE PLT (MD-162)  
**Address:** 200 BLOCK JUNIATA ST  
HAVRE DE GRACE, MD 21078  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** IW JENKINS - MOUNTAIN RD PROPERTY (MD-387)  
**Address:** 2206 MOUNTAIN RD - CENTRAL  
JOPPA, MD 21085  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** JOHNSON PROPERTY LF (MD-462)  
**Address:** BUSH RD  
ABINGDON, MD 21009  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** LONGS SEPTIC (MD-363)  
**Address:** 4025 GRAVEL HILL RD  
HAVRE DE GRACE, MD 21078  
**Aliases:** GRAVEL HILL RD

**Status:** NFRAP

**Site Name:** MILLER CHEMICAL & FERTILIZER CORP (MD-123)  
**Address:** RTS 136 & 135  
WHITEFORD, MD 21160  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** MOORE PROPERTY LF (MD-461)  
**Address:** BUSH RD  
ABINGTON, MD 21009  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** MULLINS LF (MD-038)  
**Address:** OLD POST RD RT 132  
HAVRE DE GRACE, MD 21078  
**Aliases:** NONE

**Status:** UI

**Site Name:** SCARBORO LF (MD-236)  
**Address:** SCARBORO RD  
SCARBORO, MD 21154  
**Aliases:** NONE

**Status:** DEFERRAL

**Site Name:** UNION RD DUMP (MD-446)  
**Address:** 1515 UNION RD  
ABERDEEN, MD 21001  
**Aliases:** LEISKE DUMP

**Status:** UI

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**County:** **HOWARD**

**Site Name:** CEMETARY LN (MD-305)  
**Address:** MAYFIELD & MEADOWBRIDGE  
ELKRIDGE, MD 21227  
**Aliases:** HOWARD COUNTY DRUM DUMP

**Status:** NFRAP

**Site Name:** GENERAL ELECTRIC CO (MD-115)  
**Address:** APPLIANCE PARK E  
COLUMBIA, MD 21046  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** GRANITE - CONTROL (MD-212)  
**Address:** 2845 HERNWOOD RD  
WOODSTOCK, MD 21163  
**Aliases:** NONE

**Status:** UI

**Site Name:** GRANITE - LAUNCH (MD-211)  
**Address:** 3085 HERNWOOD RD  
WOODSTOCK, MD 21163  
**Aliases:** NONE

**Status:** UI

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**Site Name:** HOWARD COUNTY LF (MD-034)  
**Address:** 4361 NEWCUT RD  
ELLICOTT CITY, MD 21043  
**Aliases:** NEW CUT LF

**Status:** NFRAP

**Site Name:** JOHNS HOPKINS APPLIED PHYSICS LAB (MD-308)  
**Address:** JOHNS HOPKINS RD  
LAUREL, MD 20707  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** LONG LIFE TREATED WOOD INC (MD-241)  
**Address:** DORSEY RACEWAY RD  
DORSEY, MD 21076  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** MAYFIELD REPAIR FACILITY (MD-465)  
**Address:** 7751 MAYFIELD AVE  
ELKRIDGE, MD 21227  
**Aliases:** MAYFIELD SHOP BUREAU OF HIGHWAY

**Status:** NFRAP

**Site Name:** MULLINEX FARM (MD-330)  
**Address:** FLORENCE & MULLINEX RDS  
LISBON, MD 21765  
**Aliases:** NONE

**Status:** NFRAP



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**Site Name:** PUBLISHERS PRINTING SERVICE INC. (MD-417)

**Address:** 10650 RIGGS HILL RD  
JESSUP, MD 20794

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** SCOVITCH PROPERTY (MD-262)

**Address:** 9530 N WASHINGTON BLVD  
LAUREL, MD 20707

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** TATE ACCESS FLOORS INC (MD-373)

**Address:** 7510 MONTERIDEO RD  
JESSUP, MD 20794

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WESTVACO CORPORATION (MD-326)

**Address:** 11101 JOHNS HOPKINS RD  
LAUREL, MD 20810

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WR GRACE WASHINGTON RESEARCH CENTER (MD-117)

**Address:** 7379 RT 32  
COLUMBIA, MD 21044

**Aliases:** NONE

**Status:** NFRAP

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**County: KENT**

**Site Name:** CHESTERTOWN GAS CO (MD-198)  
**Address:** W HIGH ST  
CHESTERTOWN, MD 21620

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CHESTERTOWN MUNICIPAL DUMP (MD-029)  
**Address:** FLATLAND RD  
CHESTERTOWN, MD 21620

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** DUTCH FAMILY DELI OIL SPILL (MD-469)  
**Address:** RTS 301 & 291  
MILLINGTON, MD 21651

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** KENT PIT (MD-454)  
**Address:** KENT CO TAX MAP PARCEL 222  
CHESTERTOWN, MD 21620

**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** LAURENCE J NICHOLSON LF (MD-138)

**Address:** NICHOLSON RD  
CHESTERTOWN, MD 21620

**Aliases:** NICHOLSON LF

**Status:** NFRAP

**Site Name:** TENNACO INC - CHESTERTOWN PLT (MD-028)

**Address:** RT 297  
CHESTERTOWN, MD 21620

**Aliases:** NUODEX INC - CHESTERTOWN PLT

**Status:** NFRAP

**Site Name:** TOLCHESTER - CONTROL (MD-221)

**Address:** TOLCHESTER BEACH RD  
TOLCHESTER, MD 21661

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** TOLCHESTER - LAUNCH (MD-220)

**Address:** ROCK HALL - TOLCHESTER RD  
TOLCHESTER, MD 21661

**Aliases:** CHESTERTOWN - NIKE

**Status:** UI

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**County: MONTGOMERY**

**Site Name:** DAVID TAYLOR RESEARCH CENTER (MD-409)  
**Address:** CODE C231  
BETHESDA, MD 20084  
**Aliases:** NONE

**Status:** UI

**Site Name:** GAITHERSBURG - CONTROL (MD-223)  
**Address:** 8510 SNOUFFERS SCHOOL RD  
GAITHERSBURG, MD 20879  
**Aliases:** NONE

**Status:** UI

**Site Name:** GAITHERSBURG - LAUNCH (MD-222)  
**Address:** OFF SNOUFFERS SCHOOL RD  
GAITHERSBURG, MD 20879  
**Aliases:** GAITHERSBURG RESEARCH FACILITY

**Status:** UI

**Site Name:** KENNETH SHUMAKER DUMP (MD-306)  
**Address:** BARNESVILLE RD  
BARNESVILLE, MD 20872  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** LAYTONSVILLE - CONTROL (MD-225)  
**Address:** ZION RD  
LAYTONSVILLE, MD 20879  
**Aliases:** NIKE W-93

**Status:** UI

**Site Name:** LAYTONSVILLE - LAUNCH (MD-224)  
**Address:** 5321 RIGGS RD  
LAYTONSVILLE, MD 20879  
**Aliases:** NONE

**Status:** UI

**Site Name:** MARYLAND WOOD PRESERVING CORP (MD-144)  
**Address:** 235 DERWOOD CIR  
ROCKVILLE, MD 20850  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** MCCORMICK PAINT WORKS (MD-398)  
**Address:** 2355 LEWIS AVE  
ROCKVILLE, MD 20851  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** MICRODYNE CORP (MD-361)  
**Address:** 627 LOFERRAND LN  
ROCKVILLE, MD 20850  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** NATIONAL INSTITUTE OF HEALTH (MD-150)  
**Address:** 900 ROCKVILLE PIKE  
BETHESDA, MD 20014  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** NATIONAL INSTITUTE OF STANDARD TECHNOLOGY (MD-407)  
**Address:** I-270 & QUINCE ORCHARD RD  
GAITHERSBURG, MD 20899  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** NAVAL MEDICAL COMMAND (MD-335)  
**Address:** 8901 WISCONSIN AVE  
BETHESDA, MD 20814  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** NORTH POTOMAC PCP (MD-477)  
**Address:** 13801 TURKEY FOOT ROAD  
NORTH POTOMAC, MD 20878  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** PROTO CIRCUITS (MD-399)  
**Address:** 14674 D SOUTLAWN LN  
ROCKVILLE, MD 20850  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** ROCKVILLE - CONTROL (MD-227)  
**Address:** 10901 DARNSTOWN RD  
GAITHERSBURG, MD 20878  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ROCKVILLE - LAUNCH (MD-226)  
**Address:** MUDDY BRANCH RD  
GAITHERSBURG, MD 20878  
**Aliases:** NONE

**Status:** UI

**Site Name:** SAFETY KLEEN CORP - SILVER SPRING (MD-344)  
**Address:** 12164 TECH RD  
SILVER SPRING, MD 20904  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** SILVER SPRINGS CUSTOM FURNITURE (MD-426)  
**Address:** 8943 BROOKVILLE RD  
SILVER SPRING, MD 20910  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** USN NAVAL SURFACE WARFARE CTR - WHITE OAK (MD-061)  
**Address:** 10901 NEW HAMPSHIRE AVE  
SILVER SPRING, MD 20903  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** VECTROL INC (MD-360)  
**Address:** 1010 WESTMORE AVE  
ROCKVILLE, MD 20850  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WALTER REED AMC FOREST GLEN ANNEX (MD-404)  
**Address:** 2961 LINDEN LN  
ROCKVILLE, MD 20910  
**Aliases:** NONE

**Status:** UI

**Site Name:** WALTER REED ARMY MEDICAL CENTER (MD-432)  
**Address:** RT 193  
WHEATON, MD 20902  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WATKINS JOHNSON CO (MD-401)  
**Address:** 700 QUINCE ORCHARD RD  
GATHERSBURG, MD 20760  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WEINSCHER ENGINEERING (MD-180)  
**Address:** 1 WEINSCHER LN  
GAITHERSBURG, MD 20877  
**Aliases:** NONE

**Status:** NFRAP



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**County:** **PRINCE GEORGES**

**Site Name:** ADELPHI LABORATORY CENTER (MD-068)  
**Address:** 2800 POWDER MILL RD  
ADELPHI, MD 20783  
**Aliases:** USA HARRY DIAMONDS LABS

**Status:** NFRAP

**Site Name:** AGGREGATE INDUSTRIES (MD-359)  
**Address:** DOWER HOWSER RD  
MELLWOOD, MD 20772  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ANACOSTIA RIVER PARK (MD-024)  
**Address:** S OF BLADENSBURG RD  
BLADENSBURG, MD 20722  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** BEAVERDAM CREEK PCB (MD-476)  
**Address:** .5 OFF KENILWORTH AVE  
BEAVER HEIGHTS, MD 20743  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** BELTSVILLE AGRICULTURAL RESEARCH (USDA) (MD-053)  
**Address:** BLDGS 1321 & 204 BARL  
BELTSVILLE, MD 20705  
**Aliases:** FDA VET MED (TENANT), FDA RESEARCH FAC (TENANT), BELTSVILLE  
AGRICULTURAL CENTER  
**Status:** NPL

**Site Name:** BLADENSBURG ACETYLENE (MD-039)  
**Address:** 2900 52ND AVE  
HYATTSVILLE, MD 20781  
**Aliases:** AIR PRODUCTS INC

**Status:** NFRAP

**Site Name:** BOWIE-BELAIR LF (MD-090)  
**Address:** RTS 3 & 450  
BOWIE, MD 20715  
**Aliases:** BROWNING FERRIS INDUSTRIES - BELAIR SANITARY LF

**Status:** UI

**Site Name:** BRANDYWINE - CONTROL (MD-229)  
**Address:** 13400 EDGEMEADE RD  
UPPER MARLBORO, MD 20772  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** BRANDYWINE - LAUNCH (MD-228)  
**Address:** CANDY HILL RD  
NAYLOR, MD 20772  
**Aliases:** UPPER MARLBORO -NIKE

**Status:** UI

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**Site Name:** BRANDYWINE DRMO SALVAGE YARD (MD-413)

**Address:** RT 381 BRANDYWINE RD  
ANDREWS, MD 20331

**Aliases:** NONE

**Status:** UI

**Site Name:** CAPITOL WIRE & FENCE (MD-108)

**Address:** 3334 KENILWORTH AVE  
HYATTSVILLE, MD 20781

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CELIA LUST (MD-295)

**Address:** BALTIMORE BLVD & SOUTHARD DR  
BELTSVILLE, MD 20705

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CITY OF GREENBELT (MD-424)

**Address:** 555 CRESCENT RD  
GREENBELT, MD 20770

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CLARK, J L MFG CO STONE INDUST (MD-291)

**Address:** 51ST AVE AND CREE LN  
COLLEGE PARK, MD 20740

**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** COLUMBIA PARK DRUM SITE (MD-251)  
**Address:** GEORGE PALMER HWY & COLUMB  
COLUMBIA PARK, MD 20785  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CONTEE SAND & GRAVEL (MD-182)  
**Address:** OFF VIRGINIA MANOR RD  
BELTSVILLE, MD 20705  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CROOM - CONTROL (MD-231)  
**Address:** 15100 MT CALVERT RD  
UPPER MARLBORO, MD 20772  
**Aliases:** NONE

**Status:** UI

**Site Name:** CROOM - LAUNCH (MD-230)  
**Address:** 8520 DUVALL RD  
UPPER MARLBORO, MD 20772  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CROOM MILITARY HOUSING (MD-468)  
**Address:** 15512 MOUNT CALVERT RD  
UPPER MARLBORO, MD 20772  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** EAGLE HARBOR TIRE FIRE (MD-443)

**Address:** EAGLE HARBOR RD  
EAGLE HARBOR, MD 20608

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** EVANS TRAIL DUMP SITE (MD-170)

**Address:** EVANS TRAIL  
CALVERTON, MD 20705

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** GLENDALE PLANT GERMPASM QUARANTINE FAC (MD-427)

**Address:** 11601 OLD POND DR  
GLENN DALE, MD 20769

**Aliases:** NONE

**Status:** UI

**Site Name:** HYATTSVILLE GAS & ELECTRIC (MD-200)

**Address:** 5022 RHODE ISLAND AVE  
EDMONSTON, MD 20781

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** KOPPERS CO DUMPSITE LAUREL (MD-040)

**Address:** RT 1 & CONTEE RD  
LAUREL, MD 20707

**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** KOPPERS CO LAUREL (MD-134)  
**Address:** RIVERSIDE DR  
LAUREL, MD 20707  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** LAUREL CITY LF (MD-183)  
**Address:** RT 198 FT MEADE RD  
LAUREL, MD 20707  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** LONDON HILLS DEVELOPMENT (MD-311)  
**Address:** END OF HIGHVIEW PL  
CAPITOL HEIGHTS, MD 20743  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** MID ATLANTIC FINISHING INC (MD-419)  
**Address:** 4656 ADDISON RD  
CAPITOL HEIGHTS, MD 20743  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** MINERAL PIGMENTS CORP - BELTSVILLE (MD-278)  
**Address:** 7011 MUIRKIRK RD  
BELTSVILLE, MD 20705  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** NASA - GODDARD SPACE FLIGHT CENTER (MD-368)

**Address:**

GREENBELT, MD 20770

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** NELSON PERRIE DUMP (MD-355)

**Address:** 15200 NELSON PERRIE RD

BRANDYWINE, MD 20613

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** OLD FORT ROAD SITE (MD-171)

**Address:** 11920 OLD FORT RD

FORT WASHINGTON, MD 20744

**Aliases:** NONE

**Status:** UI

**Site Name:** PAINT BRUSH LF AREA #3 (MD-470)

**Address:** UNIV OF MD COLLEGE PARK CAMPUS

COLLEGE PARK, MD 20742

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** PATUXENT WILDLIFE RESEARCH CENTER (MD-267)

**Address:** RT 197 AND POWDERMILL RD

LAUREL, MD 20708

**Aliases:** PATUXENT ENVIRONMENTAL SCIENCE CNTR., US BIOLOGICAL SURVEY

**Status:** UI

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**Site Name:** PISCATAWAY WWTP (MD-127)  
**Address:** RT 1 FARMINGTON RD BOX 327  
ACCOKEEK, MD 20607  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ROGERS ELECTRIC (MD-445)  
**Address:** 5720 COLUMBIA PARK  
CHEVERLY, MD 20785  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** UNITED RIGGING & HAULING (MD-248)  
**Address:** 6701 AMMENDALE RD  
BELTSVILLE, MD 20705  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** US NAVAL COMMUNICATION UNIT (MD-323)  
**Address:** DANGERFIELD & COMMO RDS  
CHELTENHAM, MD 20735  
**Aliases:** NONE

**Status:** UI

**Site Name:** USAF ANDREWS AIR FORCE BASE (MD-088)  
**Address:** PERIMETER RD  
ANDREWS AFB, MD 20331  
**Aliases:** USAF SANITARY LF #1, USAF SANITARY LF #2

**Status:** UI



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**Site Name:** WALDORF - LAUNCH (MD-232)  
**Address:** COUNTRY LN  
BRANDYWINE, MD 20613  
**Aliases:** NONE

**Status:** UI

**Site Name:** WILLIAM PLEASANTS (MD-358)  
**Address:** ALLENTOWN RD  
FRIENDLY, MD 20744  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WINDSOR MANOR RD (MD-393)  
**Address:** UPPER MARLBORO TWSP  
BRANDYWINE, MD 20613  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WP BALLARD BLDG (MD-338)  
**Address:** 10722 TUCKER ST  
BELTSVILLE, MD 20705  
**Aliases:** NONE

**Status:** NFRAP

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**County:** *QUEEN ANNES*

**Site Name:** TOM DODD SPORTING CLAYS SITE (MD-459)

**Address:** 620 TOM DODD FARM LN  
QUEENSTOWN, MD 21658

**Aliases:** NONE

**Status:** NFRAP

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**County: SOMERSET**

**Site Name:** BEITZEL CABINET & MILLWORK INC (MD-425)  
**Address:** BROAD ST  
PRINCESS ANNE, MD 21853  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CRISFIELD CITY DUMP (MD-111)  
**Address:** WATER ST  
CRISFIELD, MD 21817  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CRISFIELD LIGHT & POWER CO (MD-193)  
**Address:** RT 413  
CRISFIELD, MD 21817  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** RING LF (MD-129)  
**Address:** MILLARD RD  
WESTOVER, MD 21871  
**Aliases:** SOMERSET COUNTY LF, WESTOVER LF

**Status:** NFRAP

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**Site Name:** SHERWIN WILLIAMS RUBBERSET DIV (MD-287)

**Address:** RT 413  
CRISFIELD, MD 21817

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WESTOVER LF (MD-130)

**Address:** ARDEN STATION RD  
WESTOVER, MD 21871

**Aliases:** WESTOVER LF #2, SOMERSET COUNTY LF

**Status:** NFRAP

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**County: ST MARYS**

**Site Name:** CALIFORNIA DRUM SITE (MD-185)  
**Address:** ST ANDREWS CHURCH RD  
CALIFORNIA, MD 20619  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** GENSTAR STONE PRODUCTS (MD-364)  
**Address:** RT 235  
HOLLYWOOD, MD 20636  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** PATUXENT RIVER NAVAL AIR STATION (MD-057)  
**Address:** BUTT RIFLE RANGE LF  
PATUXENT, MD 20670  
**Aliases:** USN NAVAL AIR STATION LF

**Status:** NPL

**Site Name:** SOUTHERN MARYLAND WOOD TREATING (MD-135)  
**Address:** STATE RT 235  
HOLLYWOOD, MD 20686  
**Aliases:** NONE

**Status:** NPL

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**Site Name:** SPRINGER SEPTIC SERVICES (MD-256)  
**Address:** 8 & CHAPTICO HWY RD  
CHAPITCO, MD 20621  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ST MARYS SALVAGE (MD-252)  
**Address:**  
, MD  
**Aliases:** NONE

**Status:** UI

**Site Name:** ST MARYS SALVAGE (MD-375)  
**Address:** ST MARYS INDUSTRIAL PARK  
ST MARYS, MD 20686  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** THIOKOL CORP MECHANICSVILLE (MD-101)  
**Address:** RT 235  
MECHANICSVILLE, MD 20659  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** USN NAVAL ELECTRONICS SYS ENG ACT (MD-324)  
**Address:** VILLA RD OFF RT 5  
ST INIGOES, MD 20684  
**Aliases:** NONE

**Status:** NFRAP

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**County:** **TALBOT**

**Site Name:** DOC NAT'L MARINE FISHERIES SERV (MD-415)  
**Address:** SOUTH MORRIS ST EXT  
OXFORD, MD 21654  
**Aliases:** NONE

**Status:** UI

**Site Name:** EASTON GAS & LIGHT CO (MD-199)  
**Address:** 1 S WEST ST  
EASTON, MD 21601  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** EASTON UTILITIES COMM MUNI ELE (MD-281)  
**Address:** 219 N WASHINGTON S  
EASTON, MD 21601  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** EASTON UTILITIES COMM POWER PL (MD-282)  
**Address:** AIRPORT INDUSTRIAL PARK  
EASTON, MD 21601  
**Aliases:** NONE

**Status:** NFRAP

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**Site Name:** NOBLE MOTOR REBUILDERS (MD-125)

**Address:** N AURORA ST  
EASTON, MD 21601

**Aliases:** NONE

**Status:** NFRAP



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**County:** **WASHINGTON**

**Site Name:** ANGSTROHM PRECISION INC (MD-346)

**Address:** 1 PRECISION PL  
HAGERSTOWN, MD 21740

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CENTRAL CHEMICAL (MD-442)

**Address:** 40 N JOHNATHAN ST  
HAGERSTOWN, MD 21740

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CENTRAL CHEMICAL CORP (MD-302)

**Address:** MITCHELL AVE  
HAGERSTOWN, MD 21741

**Aliases:** NONE

**Status:** NPL

**Site Name:** CERTAIN TEED METALS (MD-396)

**Address:** WASHINGTON COUNTY INDUSTRIAL  
WILLIAMSPORT, MD 21795

**Aliases:** NONE

**Status:** NFRAP

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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**Site Name:** CHEVRON CHEMICAL CO - WILLIAMSPORT (MD-094)  
**Address:** S ON RT 11  
WILLIAMSPORT, MD 21795  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** CHEWSVILLE CO-OP (MD-298)  
**Address:** MAIN ST  
CHEWSVILLE, MD 21721  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** DANZER METAL WORKS CO (MD-397)  
**Address:** 2000 YORK RD  
HAGERSTOWN, MD 21740  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** FAIRCHILD REPUBLIC CO PLANT 11 (MD-056)  
**Address:** SHOWALTER RD  
HAGERSTOWN, MD 21740  
**Aliases:** FAIRCHILD LAND DISPOSAL, FAIRCHILD REPUBLIC CO. - PLANT 12  
  
**Status:** NFRAP

**Site Name:** FRANKLIN SPICKLER PROPERTY SITE (MD-475)  
**Address:** RT 63 (GREENCASTLE PK) & MT  
MAUGANSVILLE, MD 21740  
**Aliases:** NONE  
  
**Status:** UI

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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**Site Name:** GENUINE PARTS CO - RAYLOCK DIV. (MD-350)  
**Address:** 100 RAYLOCK DR  
HANCOCK, MD 21750  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** HAGERSTOWN - AMERICAN LIGHT & HEAT CO (MD-194)  
**Address:** SPRUCE ST  
HAGERSTOWN, MD 21740  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** HAGERSTOWN - BROADFORDING RD (MD-341)  
**Address:** CEARFOSS & BROADFORDING RD  
HAGERSTOWN, MD 21740  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** HAGERSTOWN LIGHT & HEAT CO (MD-246)  
**Address:** SOUTH LOCUST ST  
HAGERSTOWN, MD 21740  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** HAGERSTOWN LIGHT & HEAT CO (MD-247)  
**Address:** W WASHINGTON ST  
HAGERSTOWN, MD 21740  
**Aliases:** NONE

**Status:** NFRAP

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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**Site Name:** KOPPERS CO HAGERSTOWN PLT (MD-036)  
**Address:** 100 CLAIR ST  
HAGERSTOWN, MD 21740  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** NEWELL ENTERPRISES INC (MD-329)  
**Address:** PO BOX 1157  
HAGERSTOWN, MD 21740  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** RUST-OLEUM CORP (MD-348)  
**Address:** INTERSTATE INDUSTRIAL PARK  
WILLIAMSPORT, MD 21795  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** SUN CHEMICAL CORP - GPI DIV (MD-400)  
**Address:** INDUSTRIAL LN  
WILLIAMSPORT, MD 21795  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WD BYRON & SONS INC (MD-151)  
**Address:** 312 N CONOCOCHEAGUE  
WILLIAMSPORT, MD 21795  
**Aliases:** DIVISION OF WALTER KIDDE & CO

**Status:** NFRAP

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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**Site Name:** WEST MANUFACTURING CO (MD-418)

**Address:** 910 ELDRIDGE DR  
HAGERSTOWN, MD 21740

**Aliases:** NONE

**Status:** NFRAP

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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**County:** **WICOMICO**

**Site Name:** ADAMS CO & SON INC (MD-321)  
**Address:** NORTHWOOD DR & ARLINGTON RD  
SALISBURY, MD 21801

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** ATLANTIC WOOD INDUSTRIES (MD-243)  
**Address:** OLD EDEN RD  
FRUITLAND, MD 21826

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** BLACKWATER SOLID WASTE TRANSFER STATION (MD-300)  
**Address:** WALLER RD  
SALISBURY, MD 21801

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CHESAPEAKE SHIPBUILDERS INC (MD-374)  
**Address:** 710 FITZWATER ST  
SALISBURY, MD 21801

**Aliases:** NONE

**Status:** NFRAP

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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**Site Name:** CHEVRON CHEM CO - SALISBURY (MD-093)

**Address:** 125 BATEMAN RD  
SALISBURY, MD 21801

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** DRESSER INDUSTRIES (MD-275)

**Address:** 124 WEST COLLEGE AVE  
SALISBURY, MD 21801

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** GIRGCO WASTE OIL RECYCLING INC (MD-047)

**Address:** SHARPTOWN, MD 21861

**Aliases:** GRIGCO

**Status:** NFRAP

**Site Name:** KOPPERS CO SALISBURY (MD-044)

**Address:** QUANTICO RD  
SALISBURY, MD 21801

**Aliases:** SALISBURY PLT

**Status:** NFRAP

**Site Name:** LONG-LIFE TREATED WOOD INC (MD-237)

**Address:** OLD RAILROAD RD  
HEBRON, MD 21830

**Aliases:** NONE

**Status:** NFRAP

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**Maryland Department of the Environment**  
**State Master List**  
**September 1998**  
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**Site Name:** RIVER HARBOR DEVELOPMENT (MD-377)  
**Address:** RIVER HARBOR DRIVE EXTENDED  
SALISBURY, MD 21801  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** SALISBURY MARKETING INC (MD-327)  
**Address:** N SALISBURY BLVD & BRIDGEWA  
SALISBURY, MD 21801  
**Aliases:** NONE  
  
**Status:** NFRAP

**Site Name:** SALISBURY TOWN GAS (MD-163)  
**Address:** 520 COMMERCE ST  
SALISBURY, MD 21801  
**Aliases:** NONE  
  
**Status:** NFRAP



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**Maryland Department of the Environment**  
**State Master List**  
September 1998  
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**County:** **WORCESTER**

**Site Name:** BERLIN LF (MD-186)

**Address:**

BERLIN, MD 21811

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** BISHOP PROCESSING CO (MD-083)

**Address:** BOX G

BISHOP, MD 21813

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CHESAPEAKE WOOD TREATING CORP (MD-453)

**Address:** POCOMOKE

POCOMOKE CITY, MD 21851

**Aliases:** NONE

**Status:** NFRAP

**Site Name:** WEST OCEAN CITY LF (MD-376)

**Address:** LEWIS RD

OCEAN CITY, MD 21811

**Aliases:** NONE

**Status:** NFRAP



## MARYLAND DEPARTMENT OF THE ENVIRONMENT

2500 Broening Highway • Baltimore Maryland 21224  
(410) 631-3000 • 1-800-633-6101 • <http://www.mde.state.md.us>

Parris N. Glendening  
Governor

Jane T. Nishida  
Secretary

### Maryland Department of the Environment Environmental Restoration & Redevelopment Program Formerly Investigated Sites

These sites have been investigated by the United States Environmental Protection Agency and the Maryland Department of the Environment and determined not to require further action based on the information available to the agencies at the time of review.

## September 1998

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**Maryland Department of the Environment**  
**Formerly Investigated Sites**  
September 1998  
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**County:** **ANNE ARUNDEL**

**Site Name:** ANNAPOLIS PLANT (MD-141)

**Address:** CALVERT & ST JOHN STS  
ANNAPOLIS, MD 21401

**Aliases:** NONE

**Status:** FIS

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Maryland Department of the Environment  
Formerly Investigated Sites  
September 1998

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**County:** *BALTIMORE*

**Site Name:** BACK RIVER (MD-448)  
**Address:** OFF BEACHWOOD AVE @ PORTER PT  
BALTIMORE, MD 21221

**Aliases:** NONE

**Status:** FIS

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**Maryland Department of the Environment**  
**Formerly Investigated Sites**  
September 1998  
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**County:** **BALTIMORE CITY**

**Site Name:** AMERICAN SHOT & LEAD CO (MD-089)  
**Address:** FAYETTE, PITT & FRONT STS  
BALTIMORE, MD 21202  
**Aliases:** NONE

**Status:** FIS

**Site Name:** BIOCHEM (MD-292)  
**Address:** 3901 ASIATIC AVE  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** FIS

**Site Name:** BIOCHEM MANAGEMENT INC (MD-293)  
**Address:** 1917 BENHILL AVE  
BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** FIS

**Site Name:** G & M TERMINAL (MD-319)  
**Address:** 1549 WARWICK AVE  
BALTIMORE, MD 21216  
**Aliases:** NONE

**Status:** FIS

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**Maryland Department of the Environment**  
**Formerly Investigated Sites**  
September 1998  
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**Site Name:** M-V SANTA CLARA I (MD-444)  
**Address:** 30 MILES E OF ATLANTIC CITY  
BALTIMORE, MD  
**Aliases:** NONE

**Status:** FIS

**Site Name:** NL IND INC - WHITE LEAD PLT (MD-098)  
**Address:** 204 SPEARS WHARF  
BALTIMORE, MD 21230  
**Aliases:** NONE

**Status:** FIS

**Site Name:** NL INDUSTRIES INC - BALTIMORE METAL PLT (MD-096)  
**Address:** 214 W HENRIETTA ST  
BALTIMORE, MD 21230  
**Aliases:** NONE

**Status:** FIS

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Maryland Department of the Environment  
Formerly Investigated Sites  
September 1998

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**County:** CAROLINE

**Site Name:** DAVES RELOADING & GUN REPAIR (MD-423)

**Address:** FLEETWOOD RD  
DENTON, MD 21629

**Aliases:** NONE

**Status:** FIS

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**Maryland Department of the Environment**  
**Formerly Investigated Sites**  
September 1998

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**County:** CHARLES

**Site Name:** DEAD TREES IN A POND SITE (MD-394)

**Address:** 0.6 MILES PAST CORNER OF GLYM  
PISGAH, MD 20640

**Aliases:** MATTAWOMAN CREEK SITE

**Status:** FIS



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Maryland Department of the Environment  
Formerly Investigated Sites  
September 1998

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**County:** *HARFORD*

**Site Name:** MOUNTAIN RD EMERGENCY RESPONSE (MD-403)

**Address:** MOUNTAIN RD & I-95  
JOPPA-MAGNOLIA, MD 21040

**Aliases:** NONE

**Status:** FIS

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Maryland Department of the Environment  
Formerly Investigated Sites  
September 1998

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**County:** *PRINCE GEORGES*

**Site Name:** CHELTENHAM BATTERY (MD-266)

**Address:** 10800 FRANK TIPPETT RD  
CHELTENHAM, MD 20623

**Aliases:** NONE

**Status:** FIS

MARYLAND DEPARTMENT OF THE ENVIRONMENT  
WASTE MANAGEMENT ADMINISTRATION  
ENVIRONMENTAL RESTORATION & REDEVELOPMENT PROGRAM

STATE MASTER LIST REQUEST

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You should receive your order in 2-3 weeks. Please call Cathe Anderson at (410) 631-3493 with any questions.

Return completed form and **check** or **money order** payable to: State Hazardous Substance Control Fund to:

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Fiscal Services Division  
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UPDATED 3/4/97