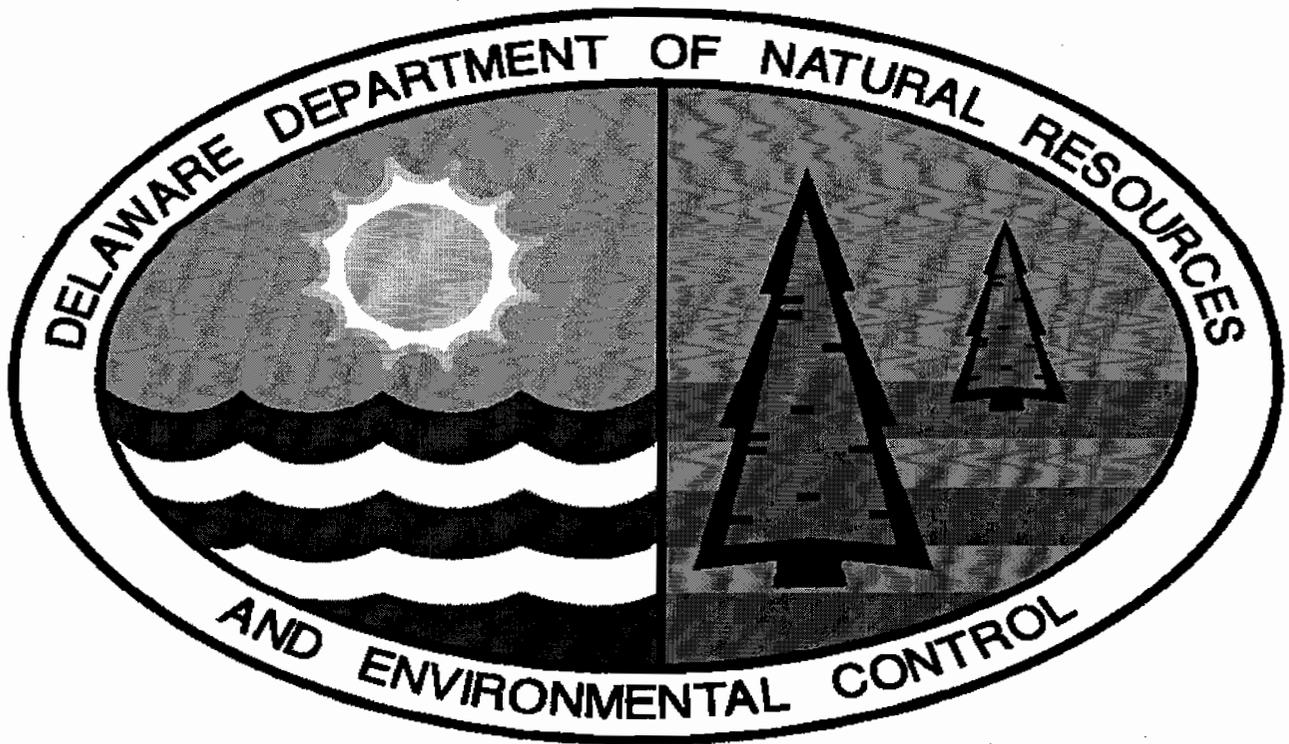


**DELAWARE HAZARDOUS SUBSTANCE CLEANUP ACT
EXPENDITURE PLAN**

FISCAL YEAR 2000



**STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES
AND ENVIRONMENTAL CONTROL
Division of Air and Waste Management
Site Investigation & Restoration Branch**

Nicholas A. DiPasquale
Secretary

June 1999

A Message From The Secretary

For the past few years, the Department of Natural Resources and Environmental Control, Site Investigation and Restoration Branch (DNREC-SIRB) has been very busy throughout the State, most visibly in the Wilmington area. The past year has seen the opening of the Tubman-Garrett Riverfront Park, the First USA Arts Center, and most recently, the first of the Riverfront Shops. Continued progress is ongoing and future successes are most promising.

A major component of these successes is the continued support and strength of Delaware's Brownfield Initiatives. The Brownfield Initiatives combine brownfield assessments with financial incentives and the Voluntary Cleanup Program. These simple tools have helped preserve greenfields while restoring abandoned and under-utilized lands.

As we continue to pursue these restoration and redevelopment goals and initiatives, the Department looks forward to making the process even more efficient. Sites are currently being addressed through the various SIRB programs such as the Voluntary Cleanup Program (VCP) and the Pre-Remedial Brownfield Assessment Program. As proof of this, over the past few years, we have investigated over 1,000 acres of contaminated lands and put back to use over 200 acres. Similarly, the VCP Program has grown from a few sites to nearly 60, and still growing.

Besides cleaning our environment and helping to limit sprawl, the Brownfield Initiatives have had an economic and social impact as well. New road and construction projects are occurring in both Wilmington and Newark creating numerous jobs. Activities at the Park and Arts Center have rejuvenated tourism in Wilmington and brought millions of dollars into local economies. And the promise of the catalogue shops and increased entertainment along the Riverfront lies in the very near future.

We would like to take this opportunity to thank Governor Carper for his continued support, the EPA for their guidance and financial support, the River Front Development Corporation (RDC) for its efforts in addressing environmental issues as part of its redevelopment projects, and the many communities for their input and interest in these economic and environmental goals. We are aware that we still have challenges before us. We also know that success breeds success and the future is bright for our Brownfields program

Nicholas A. DiPasquale, Secretary
Department of Natural Resources and Environmental Control

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Attachment A: List of Hazardous Substance Release Sites in Delaware.

Attachment B: Organizational Chart of the Site Investigation & Restoration Branch.

Attachment C: Glossary

I. INTRODUCTION

The Delaware Hazardous Substance Cleanup Program, also known as the State Superfund Program, is managed by the Department of Natural Resources and Environmental Control (DNREC), Division of Air and Waste Management, Site Investigation & Restoration Branch (formerly known as the Superfund Branch).

7 Del. C., Section 9104 (c) (2) of the Delaware Hazardous Substance Cleanup Act (HSCA) requires the Secretary of DNREC to prepare an annual budget for the proposed use of the Hazardous Substance Cleanup Fund. The following report, prepared for the Governor and the Delaware General Assembly, represents DNREC's Hazardous Substance Cleanup Program Expenditure Plan for Fiscal Year 2000.

The goal of the Department in developing and updating this expenditure plan is to provide the Legislature, other interested parties and agencies, as well as the general public, with a complete and accurate description of the Department's plans for investigating and remediating hazardous substance release sites in Delaware, by using the most currently available information. The plan identifies the number of Delaware hazardous substance release sites targeted for cleanup by private parties under the Voluntary Cleanup Program, through enforcement actions imposed on responsible parties and by the Department, over the next five fiscal years.

It is important to note that during the course of a fiscal year it becomes necessary to engage in activities which are unknown and difficult to predict at the time the annual expenditure plan is drafted (e.g., voluntary cleanup actions, interim response actions, imminent danger abatements). Although these activities are difficult to forecast in the expenditure plan for a fiscal year, the Department accounts for such activities at the end of the fiscal year as represented in Section III (Accomplishments During Fiscal Year 1999) of this plan. The Department lists all activities conducted for the past year in an effort to satisfy 7 Del. C., Chapter 91, Section 9113(e) whereby the Secretary of the Department must seek approval from the Speaker of the House and the President Pro Tempore of the Senate for any expenditures from the Delaware Hazardous Substance Cleanup Fund not budgeted for in the annual expenditure plan. The Department assures that all expenditures are made in accordance with the expenditure plan budget and are necessary to carry out the purposes of 7 Del. C., Chapter 91. The Department has never exceeded the expenditure budget in any of the years since the inception of HSCA. However, the number of sites addressed during a year may have varied from what was budgeted for that year.

This document has been broken down into distinct sections. A detailed discussion of the Delaware Hazardous Substance Cleanup Program has been included in Section II. Section III outlines the site-specific and program-related accomplishments of the Program during FY 1999, whereas, the projected goals and objectives for the next five years are discussed under Section IV.

The plan also includes a write-up on the Early Compliance Detection Incentive (ECDI) Program under Section V. The ECDI Program provides reimbursements to responsible parties that have registered their petroleum tanks for inclusion in the program and have completed one or all of the remediation requirements at a given facility.

Section VI of this document lists the provisional expenditures for FY1999 and a budget for FY2000 through FY2004.

Section 9104 (c) (2) of HSCA also requires an audit of the fiscal affairs to be conducted annually, and the submission of the audit report to the Governor and the Delaware General Assembly on an annual basis. No audit was conducted for FY 1998 fiscal affairs and hence the audit report is not included with this report.

II. THE SITE INVESTIGATION & RESTORATION PROGRAM

The Delaware Hazardous Substance Cleanup Act (HSCA)

The Delaware Hazardous Substance Cleanup Act (HSCA), 7 Del. C., Chapter 91, was passed by the Delaware General Assembly in July of 1990 and was amended thereafter in June of 1993 and July of 1995. The latest amendment promotes the voluntary cleanup of contaminated sites, especially the underutilized "brownfields" in the industrial belt, thereby preserving greenfields. The HSCA statute gives DNREC the ability to ensure cleanup of facilities with a release or a threat of release of hazardous substances. The main objective of HSCA is to enable DNREC to address those sites not remediated under the Federal Superfund Program.

DNREC has identified over 435 sites in Delaware as potential hazardous substance release sites, of which 111 have currently been assigned a higher priority, having been identified as posing a risk to public health, welfare, and/or the environment. Of these 111 sites, 94 sites fall under the purview of HSCA and 17 under EPA's Superfund program (National Priority List). 49 of the 111 sites under HSCA are currently undergoing investigation and cleanup (the remaining 62 will be addressed in the subsequent years). 46 sites are currently being addressed under the Voluntary Cleanup Program (VCP)/Brownfield Program.

Work has been completed at 45 sites under HSCA. Of the 17 NPL sites, cleanup has been completed at 10 sites. Cleanup has been completed at 41 VCP/Brownfield sites to date resulting in the reuse of more than 200 acres of old underutilized properties.

The program is funded by levying a 0.9% tax on all taxable gross receipts from the sale of petroleum or petroleum products, with the exception of crude oil. It attempts to identify all parties potentially responsible for causing a release of hazardous substances into the environment. The State Superfund Program requires potentially responsible parties to pay for the costs associated with investigating, and if necessary, remediating a site. If a potentially responsible party cannot be identified or is unable to pay for the cleanup, monies from the Hazardous Substance Cleanup Fund are utilized to perform the cleanup at the site.

The Delaware Regulations Governing Hazardous Substance Cleanup

The HSCA requires the Secretary of DNREC to promulgate regulations in order to establish procedures governing site cleanups. The Delaware Regulations Governing Hazardous Substance Cleanup were promulgated by DNREC on January 12, 1993 and amended on April 7, 1994, April 7, 1995 and September 1996 respectively. These regulations describe the entire cleanup process, from the identification of a site to its final cleanup.

Any facility with a release or imminent threat of release may go through one or more of the following steps:

- Facility Identification: Facilities will be identified through a variety of mechanisms, such as complaints from the public, and reports from DNREC, other state agencies or parties.
- Initial Investigation: The purpose of an initial investigation is to determine if a release or imminent threat of release of hazardous substances may have occurred that warrants further action, such as a field visit and examination of existing records.
- Facility Evaluation: The Department or any person may conduct a facility evaluation to confirm the release or imminent threat of release of hazardous substances at a facility, and develop information to evaluate threat to public health or welfare or the environment.
- Identification and Notification of Potentially Responsible Parties (PRPs): The Department shall initiate actions to identify and notify the potentially responsible parties associated with a facility where a release or imminent threat of release of hazardous substances has been confirmed.
- Priority List: The Department will prepare a priority list of facilities, from the inventory of hazardous substance release sites, where further action is necessary.
- Negotiations with Potentially Responsible Parties: The Department may require the potentially responsible parties to perform response actions by issuing a letter inviting negotiations towards preparation of a settlement agreement. If the potentially responsible parties and DNREC fail to reach a settlement agreement within 90 days, the Secretary may issue an administrative order after a hearing, or may initiate cleanup using the Hazardous Substance Cleanup Fund and pursue recovery of costs from the responsible parties. However, the Department may at any time carry out a response action at a facility if the potentially responsible parties have not carried out the response action in a timely manner or if no potentially responsible parties can be identified.
- Remedial Investigation: A remedial investigation may be conducted at a facility to clearly describe the risks to public health, welfare or the environment, and to identify the specific problems requiring remediation. This is usually the first phase of a response action at a facility pursuant to a settlement agreement. This step involves extensive field sampling of the different media and analyses of the samples.
- Feasibility Study: A feasibility study follows a remedial investigation at a facility, and identifies the remedial alternatives appropriate to the site.

- Plan of Remedial Action: The Department shall prepare a proposed plan of remedial action outlining the alternative chosen by the Department, and provide for public notice and opportunity to comment. After review and consideration of the comments received, the Department shall issue a final plan of remedial action.

- Remediation: Based on the final plan of remedial action, the selected remedy is implemented at a facility. This process consists of distinct phases:

Remedial Design: This phase consists of preparation of engineering design reports and construction plans and specifications.

Remedial Action: This refers to the actual implementation of the remedy in accordance with the construction plans and specifications.

Operation and Maintenance (O&M) and Compliance Monitoring: O&M involves actions to maintain the effectiveness of the remedial action, whereas compliance monitoring verifies the attainment of cleanup levels and the long-term effectiveness of the remedial action.

- Interim Response Activity: The Department may require or conduct an interim action at any time before the selection of a remedy to prevent, minimize or mitigate harm to public health, welfare or the environment.

Voluntary Cleanup/Brownfields Program

The Delaware Voluntary Cleanup/Brownfields Program was developed in order to achieve the broad goal of wise land use throughout the state. It supports sound land use management with an emphasis toward sustainable economic redevelopment. Since 1993, the State of Delaware has been redirecting programs to support the rehabilitation and reuse of industrial and commercial properties which have historically been abandoned or underutilized as a consequence of environmental contamination. In the past, the private sector's interest in purchasing and revitalizing these properties was often diminished due to the liability and cleanup costs associated with such contaminated sites.

Delaware's Voluntary Cleanup program began in August of 1993. While the developers' fear of liability could be allayed through their participation in this program, obtaining funds to cover the costs of property acquisition, cleanup and redevelopment, was still a challenge. This gave rise to the Brownfields Program in 1995 to promote the reuse of old and abandoned industrial sites. Under this program, the State provides incentives to the business community in the form of tax credits and financial assistance.

Both programs have been successful in attracting businesses to historically industrial areas. Since the inception of the programs, 87 sites have entered the program; 46 sites are currently undergoing cleanup; and 41 sites have been cleaned up and reused or are being planned for reuse.

Ranking of Sites

Under the HSCA program, hazardous waste sites are ranked in the following order:

- (1) Sites which pose an imminent threat to public health, welfare and the environment.
- (2) Sites under the Voluntary Cleanup Program where the private parties volunteer to investigate and clean up a site, and are willing to expend monies up front for the project.
- (3) Other HSCA sites which need attention but do not pose an imminent threat to public health, welfare and the environment.

In FY1994, the Department developed the Delaware Hazard Ranking Model to rank sites based on the relative degree of risk posed by the sites to public health, welfare and the environment. Using this ranking model, all of the sites have been prioritized. A majority of the sites scheduled for investigation and remediation in the future (except those addressed under the VCP) are sites that have undergone some limited investigations under the Federal Superfund Program. A list of all hazardous substance release sites reported or identified in Delaware and their current status is included in Attachment B.

Cleanup Assumptions

There are a number of variables which could cause significant differences in actual versus projected site cleanup activities. For example, hazardous substance release sites currently believed to be of moderate size and complexity, could be discovered to be large and highly complex as a result of a more extensive study (Remedial Investigation/Feasibility Study). Similarly, sites that are currently projected for responsible party-financed cleanup could become state-financed sites and vice versa. However, the Department believes that this report is based on reasonable and sound assumptions, and that the cleanup projections indicated above are the most accurate that can be made at this time, on the basis of current information. Also, the responsible party-financed cleanup is often delayed due to factors beyond the control of the Department. Further, with the advent of the Voluntary Cleanup Program, it is difficult to predict the number of sites that will be addressed under the program.

Site Cleanup Complexities and Delays

There are many reasons why site investigations and cleanup activities can take years to complete in some cases. Technical complexities arise during the investigation, design and final cleanup phases. This is particularly true of sites involving contaminated groundwater in geologically complex situations or when new treatment technologies are

being applied. The program often faces situations where there is no one single way of remediating sites.

In addition to technological challenges, site cleanup actions may sometimes be delayed due to the inability on part of the responsible parties to respond quickly or competently to DNREC orders and directions. In some cases, cleanup actions may be delayed because responsible parties refuse DNREC site access or raise other legal challenges.

Another important factor is the public information process. The HSCA mandates public notice at various times during the site investigation and cleanup process. This process could sometimes create delays. For example, the most desirable cleanup option (from a technical perspective) may be unacceptable to the public and, therefore, another option may be selected. The Department maintains an active community relations program for all sites under its jurisdiction. To some degree, the pace of the acceptability of a preferred cleanup option can be quickened by keeping the interested public aware of and involved in the site activities. In addition to the provisions for public input in both the HSCA and the Delaware Regulations Governing Hazardous Substance Cleanup, local meetings, fact sheets, newsletters, as well as "door-to-door" canvassing are some of the other methods used by the Site Investigation & Restoration Branch to keep the public informed of site activities. The Branch strongly believes in maintaining close ties with all stakeholders in this process.

Organization of the Site Investigation and Restoration Program

As stated earlier, primary responsibility for implementation of the Hazardous Substance Cleanup Act lies within DNREC's Division of Air and Waste Management, Site Investigation & Restoration Branch (SIRB).

The SIRB currently has 30 positions. Of these, 13 are funded by the Environmental Protection Agency, 1 by the Department of Defense through Cooperative Agreements, 3 by General Funds and 13 by the Delaware Hazardous Substance Cleanup Act Fund and from reimbursements by private parties for oversight of cleanup of their sites. Attachment C depicts the organization of the Branch. The HSCA Fund also supports two positions within the Underground Storage Tank Branch to clean up leaking underground storage tank sites.

III. ACCOMPLISHMENTS DURING FISCAL YEAR 1999

Fiscal Year 1999 was once again a productive year for the Site Investigation and Restoration Program. The following pages describe the accomplishments of the Program, both site-specific and program-related.

Site-Specific Accomplishments

Each year in the annual expenditure plan, the Hazardous Substance Cleanup Program, in accordance with 7 Del. C., Chapter 91, Section 9104(c), attempts to project the goals related to site investigation and remedial activities for the upcoming fiscal year. It must be recognized that the projections assume that the potentially responsible parties are willing to enter into settlement agreements with the Department, that the sites are not highly complex and do not require extensive investigative activities, and that the specific phase or activity will occur within a period of time typical for that activity. The Department was able to exceed the projected commitments for most categories. This is primarily due to the success of the Voluntary Cleanup Program.

This year, as in the previous three years the program experienced an increase in the demand for oversight by the Department of investigative and remedial activities under the Voluntary Cleanup Program. The Department, under a policy signed by the Secretary, has assigned a very high priority for sites addressed under the VCP. Cleanup of sites under the VCP not only protects public health and the environment, but also promotes the reuse of "brownfield" sites for commercial and industrial activities, thereby preserving pristine areas or "greenfields".

The following table compares the projected goals with the actual accomplishments for Fiscal Year 1999.

PHASE OF CLEANUP	PROJECTED	ACCOMPLISHED
FE/RI/FS (Fund Lead)		
Ongoing	7	5
Complete	8	6
FE/RI/FS (PRP Lead)		
Ongoing	25	30
Complete	19	22

PHASE OF CLEANUP	PROJECTED	ACCOMPLISHED
RD/RA/Interim Action (Fund Lead)		
Ongoing	2	5
Complete	2	1
RD/RA/Interim Action (PRP Lead)		
Ongoing	5	15
Complete	9	11

The following is a list of sites where cleanup activities were initiated, were ongoing, and/or were completed during FY 1999:

PHASE OF CLEANUP	FY 1999 ACCOMPLISHMENTS
FE/RI/FS (FUND LEAD)	
ONGOING	Harbor Associates – Stadium Corp
	Leisure Haven Mobile Home Park
	Seaboard Lumber
	Wayman Fire Protection
	Wilmington Coal Gas – Western Section
COMPLETE	
	Georgetown Cleaners
	Lewes Coal Gas Site
	New Market Village Trailer Park
	New Street
	Paul's Antique
	Seaboard Lumber
	Syntech
FE/RI/FS (PRP LEAD)	
ONGOING	
	100 Walnut Street (HSCA)
	Amp Circuit (HSCA)
	Amtrak Wilmington Refueling(HSCA)
	Bafundo (VCP)
	Christina River Pedestrian walkway (VCP)
	Clayville Dump(VCP)
	DCI property (VCP)
	Deemer Steel (VCP)

PHASE OF CLEANUP	FY 1999 ACCOMPLISHMENTS
	Del Chapel OU III (VCP)
	Del Chapel OUII (VCP)
	Denton Landfill (HSCA)
	Dover Survival Training (FUDS)
	Dravo Marsh(HSCA)
	Dureco(HSCA)
	Eagle Run (VCP)
	Former Amoco Polymer Plant (HSCA)
	Former Dover Ice Plant(VCP)
	Fox Point Phase II (HSCA)
	Harrywood Landfill (HSCA)
	Hollingsworth (VCP)
	ICI Phase II (HSCA)
	Kreiger Finger (HSCA)
	Martin Luther King Intersection Project (VCP)
	Newport Boat Ramp (VCP)
	Sardo & Sons (VCP)
	Scull Property (HSCA)
	Sussex County Landfill #1(HSCA)
	West Street Connector (VCP)
	Wilmington Coal Gas-North(HSCA)
	Wilmington CSO (VCP)

COMPLETE	
	Bancroft Mills (VCP)
	Del Chapel OUI (VCP)
	Dravo Shipyard(Amer) (VCP)
	Dravo Shipyard(Harbor) (VCP)
	Georgetown Coal Gas(HSCA)
	Glasgow Farm Site (VCP)
	ICI Phase I (HSCA)
	Madison Street Connector(VCP)
	Moore Brothers (VCP)
	Morris Work Release Center (VCP)
	New Castle Fire School (VCP)
	Newark Lumber (VCP)
	NVF Newark (VCP)
	Pencader (VCP)
	Peninsula Park LLC (VCP)
	Red Lion Property (VCP)
	Reichold Chemical
	Speakman Property (VCP)
	Walkers Mills Mobile Home Park (VCP)

PHASE OF CLEANUP	FY 1999 ACCOMPLISHMENTS
	Wilmington Spill Site (HSCA)
INTERIM ACTION/RD/RA (FUND LEAD)	
ONGOING	Georgetown Cleaners
	Healthways
	Seaboard Lumber
	Syntech
	Toni Dry Cleaners
COMPLETE	
	Lewes Coal Gas
INTERIM ACTION/RD/RA (PRP LEAD)	
ONGOING	
	Bellanca Hangar (VCP)
	Brandywine Fibres (VCP)
	Budd Metal (VCP)
	Clayville Dump (VCP)
	Del Tech (VCP)
	Delaware Air National Guard (HSCA)
	Dravo Shipyard –Amer (VCP)
	Forbes Steel & Wire (VCP)
	Kenton Landfill OUI (VCP)
	Morris Work Release Center (VCP)
	Naamans Road (VCP)
	New Castle Fire School (VCP)
	Newark Lumber (VCP)
	Potts Property (VCP)
	Proposed New Castle County Courthouse (VCP)
	Wilmington Coal Gas – South (HSCA)
COMPLETE	
	210 Greenhill Avenue (VCP)
	5 th and Church Street (VCP)
	Del Chapel OUI (VCP)
	Kirk Building (VCP)
	Madison Street Connection (VCP)
	Maryland Avenue (VCP)

PHASE OF CLEANUP	FY 1999 ACCOMPLISHMENTS
	Potential Bracebridge – Multipurpose (VCP)
	Sealand, Mt. Pleasant (HSCA)
	Speakman Property (VCP)
	Sussex Lumber (HSCA)
	Wilmington Spill Site (HSCA)

Program-Related Accomplishments

- Christina Riverfront Development – Brownfield Redevelopment

DNREC, the Riverfront Development Corporation (RDC), the City of Wilmington and the State of Delaware have made fantastic progress along the once polluted Christina River. This joint effort has turned the under-utilized and abandoned brownfields into an economic and tourist success. This past year has seen the construction of the first stores and the advancement of the bio-retention system which acts as a buffer between the development and the Christina River. The SIRB continues to work with the RDC to bring the waterfront attractions to fruition while protecting the environment and public health.

- Wilmington Recycling Industrial Park

The auto/waste salvage industry located along the east bank of the Christina River has been an important yet historically polluting enterprise. The SIRB, along with the Environmental Awareness and Senior Involvement (EASI) group, has created a model plan for relocating, cleaning up and redeveloping these viable and environmentally sensitive lands. The plan calls for individual owners to voluntarily relocate their businesses to a central recycling district. The new recycling district will be benefited by a new permitting process and state-of-the-art technology.

- “Miss Utility” Legislation

The SIRB has drafted legislation that would enable it to more efficiently monitor cleanup remedies into the future. The bill proposes to link specific DNREC regulated sites with the tracking system used by Miss Utility operations. Miss Utility protects various types of underground utilities from being damaged due to excavation or demolition. This protection would also safeguard against intrusions into environmental remedies.

- Public Outreach Efforts:

The Site Investigation & Restoration Branch has continued its effort to educate the public on the Superfund process. Much of this effort over the past year has been in providing information on the improvements made to the Voluntary Cleanup Program to approximately 300 individuals.

Efforts have also been extended to residents in neighborhoods located in targeted census tracts that are within close proximity to HSCA and NPL sites. The information provided here concerns type of cleanup planned, future land uses and environmental justice issues. In conjunction with these concerns, the SIRB has participated in drafting a grant proposal to the EPA seeking funds to conduct a study to determine the existence and degree of environmental discrimination, and measures for addressing the results.

The SIRB has formalized its relationship with the City of Wilmington by the creation of a Memorandum of Understanding (MOU). This MOU stresses the need for joint communication. The Branch also participated in Coast Day, State Fair, and Artesian Water Day celebrations, as well as the "What In The World", Science Alliance and "Diversity Day" programs in area schools.

- Annual Report

The SIRB published its 8th Annual Report (1997-1998) in fiscal year 1999. The Report was able to not only detail the SIRB's successes and accomplishments, but it was also professionally prepared by a team of national publicists. The Report provides information on the various types of sites that the SIRB handles as well as providing information about HSCA, the VCP program and the Brownfield Initiatives Programs.

**IV. FOUR-YEAR PROJECTED CLEANUP GOALS AND OBJECTIVES
(FY 2000-FY 2004)**

Five-Year Projected Cleanup Plans (FY 2000 – FY 2004)

The following represents projected phases of investigative and remedial activities for currently identified sites during FY2000 through FY2004. These projections are based on several assumptions (e.g., the site will require additional phases of investigation, the site will require some degree of remediation, etc.), and are therefore difficult to confirm until the results from a particular phase are assessed. The Department will use the following schedule as a guide and will make the necessary adjustments to this schedule by incorporating actual site-specific information as it becomes available.

PHASE OF CLEANUP	FY2000	FY2001	FY2002	FY 2003	FY2004
FE/RI/FS (State/Fund Lead)	4 complete 6 ongoing	5 complete 6 ongoing	5 complete 6 ongoing	5 complete 6 ongoing	5 complete 6 ongoing
FE/RI/FS (PRP Lead)	18 complete 30 ongoing	10 complete 10 ongoing	10 complete 10 ongoing	10 complete 10 ongoing	10 complete 10 ongoing
RD/Remedia l Action /Interim Action(State/ Fund Lead)	2 complete 3 ongoing	2 complete 2 ongoing	2 complete 2 ongoing	2 complete 2 ongoing	2 complete 2 ongoing
RD/Remedia l Action /Interim Action (PRP Lead)	11 complete 12 ongoing	5 complete 5 ongoing	5 complete 5 ongoing	5 complete 5 ongoing	5 complete 5 ongoing

Site-Specific Goals For Fiscal Year 2000

The Site Investigation & Restoration Branch is hopeful that the next fiscal year will be as productive and fulfilling as this one. The following table lists the site-specific goals for FY 2000.

PHASE OF CLEANUP	FY 2000 GOALS
FE/RI/FS (FUND LEAD)	
<i>ONGOING</i>	4 FEs – To Be Identified
	Berger Brothers
	Dobbinsville Ballfield
<i>COMPLETE</i>	
	Harbor Associates
	Seaboard Lumber
	Waymans Fire Protection
	Wilmington Coal Gas - West
FE/RI/FS (PRP LEAD)	
<i>ONGOING</i>	
	6 VCP Sites - To Be Identified
	1121 Thatcher Street (VCP)
	American Scrap & Waste Co.(HSCA)
	Amtrak Wilmington Refueling(HSCA)
	Bafundo (VCP)
	Bellanca Hangar Site (VCP)
	Cress Collision Services Inc (VCP)
	Deemer Steel (VCP)
	Delaware Brick Pit (VCP)
	Denton Landfill (VCP)
	Dover Survival Training HSCA)
	Dureco (HSCA)
	Former Amoco Film Plant (HSCA)
	Harry Wood Landfill (HSCA)
	Hollingsworth (VCP)
	ICI Phase II (HSCA)
	Kreiger Finger (HSCA)
	Martin Luther King Intersection Project (VCP)
	Necastro Salvage Yard (HSCA)
	Penn Del (HSCA)
	Sardo & Sons (VCP)

PHASE OF CLEANUP	FY 2000 GOALS
	Scull Property (VCP)
	Sussex County Landfill #1(HSCA)
	West Street Connector (VCP)
	Wilmington Public Works Yard (HSCA)
COMPLETE	
	Amp Circuit (HSCA)
	Amtrak Wilmington Refueling (HSCA)
	Christina River Pedestrian Walkway(VCP)
	Clayville Dump (HSCA)
	DCI Property (VCP)
	Del Chapel OUII (VCP)
	Del Chapel OUIII (VCP)
	Dravo Marsh (HSCA)
	Dravo Shipyard-Amer (VCP)
	Dravo Shipyard-Harbor (VCP)
	Former Amoco Polymer Plant (HSCA)
	Former Dover Ice Plant (VCP)
	ICI Phase I (HSCA)
	New Castle Fire School (VCP)
	Newport Boat Ramp (VCP)
	Red Lion Property (VCP)
	Wilmington Coal Gas – North (HSCA)
	Wilmington CSO (VCP)
INTERIM ACTION/RD/RA (FUND LEAD)	
ONGOING	Georgetown Cleaners
	Seaboard Lumber
	Syntech
COMPLETE	
	Healthways
	Toni Dry Cleaners
INTERIM ACTION/RD/RA (PRP LEAD)	
ONGOING	
	4 VCP Sites To Be Identified
	Bellanca Hangar (VCP)
	Brandywine Fibres (VCP)
	Budd Metal (VCP)
	Delaware Air National Guard (HSCA)
	Forbes Steel & Wire (VCP)
	Fox Point Phase II (HSCA)

PHASE OF CLEANUP	FY 2000 GOALS
	New Castle Fire School (VCP)
	Potts Property (HSCA)
COMPLETE	
	Archives Building (VCP)
	Bancroft Mills (VCP)
	Christina River Pedestrian Walkway (VCP)
	Del Tech (VCP)
	Eagle Run (VCP)
	Julian Property VCP)
	Kenton Landfill OUI (VCP)
	Morris Work Release Center (VCP)
	NVF Company Newark (VCP)
	Proposed NCC Courthouse (VCP)
	Red Lion Property (VCP)

Program-Related Goals and Objectives For Fiscal Year 2000

The following represent the program-related goals and objectives for FY 2000:

- Publish a Superfund Annual Report for Fiscal Year 1998-1999 describing the progress and activities at the sites.
- Publish quarterly newsletter titled "The SIRB News Letter."
- Revitalize and put back into reuse 20 acres of Brownfield sites.
- Publish HSCA expenditures plan for FY 2001.

V. THE EARLY COMPLIANCE DETECTION INCENTIVE PROGRAM (ECDI)

The Early Compliance Detection Incentive Program is managed by DNREC's Division of Air and Waste Management, Underground Storage Tank Branch. It provides reimbursement to responsible parties who have conducted cleanup activities of leaking underground storage tanks on their own. Reimbursement is provided as the applications are received and reviewed under the provisions of the Program. In the event that the requests for reimbursement exceed the funding level, the approved requests will be reimbursed the following year.

To date, 266 reimbursements have been made from the Fund. The reimbursements have been disbursed to 107 sites, 45 of which have received a 'No Further Action' letter from the Department. The 45 sites that have been closed were reimbursed a total of \$1,689,675.19.

The following is the amount reimbursed in each calendar year:

<u>YEAR</u>	<u>AMOUNT (\$)/CALENDAR YEAR</u>	<u>AMOUNT (\$)/FISCAL YEAR</u>
1991	222,997.22	140,801.83
1992	810,668.66	310,819.39
1993	679,816.48	845,071.64
1994	740,576.58	850,000.00
1995	1,622,330.81	1,300,751.69
1996	1,075,020.68	1,267,703.86
1997	1,578,966.93	1,360,025.36
1998	1,158,735.31	1,350,000.00
1999*	918,790.83	1,350,000
2000	-0-	32,729.47
TOTAL TO DATE (5.20.99)	8,351,209.41	8,351,209.41

Average cost = \$78,048.69/site/pending applications.

* The figures for 1999 are provisional.

VI. EXPENDITURES

The HSCA Fund generates an estimated \$3.9 million in revenue annually.

The table on the following page represents provisional expenditures during FY 1999 and a detailed budget projection for FY 2000 through FY 2004.

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HAZARDOUS SUBSTANCE CLEANUP ACT
EXPENDITURE PLAN
FY 2000 - FY 2005
(in thousands)

	FY 1999*	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004
Revenue Total	15151.50	17529.93	12642.93	8811.43	5252.96	1889.91
Revenue Sources						
Tax Receipts	2885.69	3900.00	1950.00			
Private Party Cleanup						
Reimbursement		600.00	600.00	600.00	600.00	600.00
Prior Year Carry Over	12265.81	13029.93	10092.93	8211.43	4652.96	1289.91
Expenditure Total	2121.57	7437.00	4431.50	4158.48	3963.05	3945.35
Program						
Superfund	1074.99	5907.00	2886.50	2608.48	2613.05	2595.35
Underground Storage Tank	1046.58	1530.00	1545.00	1550.00	1350.00	1350.00
Administrative Cost	325.83	420.00	471.00	492.30	298.92	305.86
Superfund	190.35	240.00	276.00	292.30	298.92	305.86
Underground	135.48	180.00	195.00	200.00		
Remediation Cost	1795.74	7017.00	3960.50	3666.18	3664.13	3639.49
Superfund	884.64	5667.00	2610.50	2316.18	2314.13	2289.49
Underground Storage Tank	911.10	1350.00	1350.00	1350.00	1350.00	1350.00
Expenditure Detail						
Total Superfund	1074.99	5907.00	2886.50	2608.48	2613.05	2595.35
Administrative Cost	190.40	240.00	276.00	292.30	298.92	305.86
Salaries	-	120.00	126.00	132.30	138.92	145.86
Operating Costs	-	100.00	130.00	140.00	140.00	140.00
Division of Revenue Expenses	-	20.00	20.00	20.00	20.00	20.00
Remediation Cost	884.60	5667.00	2610.50	2316.18	2314.13	2289.49
Site Discovery/Site Assessment	-	500.00	509.75	519.99	530.74	467.02
Facility Evaluation Oversight	-	190.00	199.50	209.48	219.95	230.95
Facility Evaluations	-					
Analytical	-	100.00	100.00	100.00	100.00	100.00
Drilling	-	100.00	100.00	100.00	100.00	100.00
Responsible Party Searches	-	5.00	5.25	5.51	5.79	6.08
Christina Basin Brownfield Assessment	-	75.00	75.00	75.00	75.00	
Regional Basin Assessments	-	30.00	30.00	30.00	30.00	30.00
Capital Outlay	-	25.00	45.75	46.54	47.36	48.23
Instruments	-					
GC/MS	-	10.00	10.00	10.00	10.00	10.00
FID/PID	-	0.00	20.00	20.00	20.00	20.00
Xray Florescent	-	5.00	5.25	5.51	5.79	6.08
Mobile Lab	-	10.00	10.50	11.03	11.58	12.16
Private Party Cleanup	-	450.00	472.50	496.13	520.93	546.98
Remedial Oversight	-	450.00	472.50	496.13	520.93	546.98
Fund-Financed Cleanup	-	4692.00	1582.50	1253.53	1215.10	1227.26
Site Remediation	-					
Healthways	-	3000.00	50.00	50.00	50.00	50.00
Indian River DCP	-	1.00	1.00	1.00	1.00	1.00
Syntech	-	200.00	10.00	10.00	5.00	5.00
Lewes Coal Gas	-	1.00	1.00	1.00	1.00	1.00
Georgetown Cleaners	-	200.00	200.00	50.00	5.00	5.00
Seabord Lumber	-	200.00	100.00	5.00	5.00	5.00
Wilmington Coal Gas - W	-	60.00	50.00			
Harbor Associates	-	60.00				
Toni Drycleaning	-	60.00	50.00	5.00	5.00	5.00

* The actual receipts and expenditures provided for FY 99 are through May 30, 1999 and are provisional.
Expenditures include encumbrances also.

HAZARDOUS SUBSTANCE CLEANUP ACT
EXPENDITURE PLAN
FY 2000 - FY 2005
(in thousands)

	FY 1999*	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004
Orphan Sites	-	700.00	900.00	900.00	900.00	900.00
Emergency Response	-	200.00	210.00	220.50	231.53	243.10
NPL Cost Share	-					
Tybouts Corner Landfill	-	10.00	10.50	11.03	11.58	12.16
Total Underground Tanks	1046.58	1530.00	1545.00	1550.00	1350.00	1350.00
Administration Cost	135.48	180.00	189.00	198.45	208.37	218.79
Salaries - Underground Tanks	-	135.00	141.75	148.84	156.28	164.09
Operating Costs	-	45.00	47.25	49.61	52.09	54.70
Remediation Cost	911.10	1350.00	1350.00	1350.00	1350.00	1350.00
Orphan Site	-					
ECDI	-	1350.00	1350.00	1350.00	1350.00	1350.00

* The actual receipts and expenditures provided for FY 99 are through May 30, 1999 and are provisional.
Expenditures include encumbrances also.

Delaware Department of Natural Resources and Environmental Control

Site Status Database - Total Inventory of Hazardous Substance Release Sites in Delaware (State Status + State Sequence)

<u>ID Number</u>	<u>Site Name</u>	<u>State Status</u>	<u>Federal Status</u>	<u>City</u>
1	DE-1153	CURTIS PAPER MILL - PLANT AREA	BPA II	WILMINGTON
2	DE-1128	EAST 7TH ST PENINSULA - NORTH	BPA II	WILMINGTON
3	DE-1127	EAST 7TH ST PENINSULA - SOUTH	BPA II	WILMINGTON
4	DE-1138	GEORGE GRAY SCHOOL	BPA II	WILMINGTON
5	DE-1106	OBRIEN PROPERTIES- PRE REMEDIAL	BPA II	WILMINGTON
6	DE-1158	P & C ROOFING	BPA II	WILMINGTON
7	DE-163	DEL CHAPEL PLACE	BROWN FIELD	NEWARK
8	DE-045	DEEMER STEEL-NEW CASTLE PLANT	DELETED FROM NPL	NEW CASTLE
9	DE-033	NEW CASTLE SPILL SITE	DELETED FROM NPL	NEW CASTLE
10	DE-281	DIAMOND STATE SALVAGE	EPA REMOVAL	WILMINGTON
11	DE-1148	EAST 7TH ST DRUM SITE	EPA REMOVAL	WILMINGTON
12	DE-291	HARBESON DEAD SWAN SITE	EPA REMOVAL	WILMINGTON
13	DE-097	SIXTEENTH STREET QUARRY	EPA REMOVAL	WILMINGTON
14	DE-1152	FORMER AMOCO FILM PLANT	EPA REMOVAL	WILMINGTON
15	DE-1114	100 WALNUT STREET	FE	NEW CASTLE
16	DE-1134	101 N. POPLAR STREET	HSCA	WILMINGTON
17	DE-1123	560 TERMINAL AVE	HSCA	WILMINGTON
18	DE-008	AIR PROD & CHEM INC	HSCA	NEWARK
19	DE-211	ALL RITE RUBBISH REMOVAL (NEW)	HSCA	DELAWARE CITY
20	DE-1131	AMERICAN SCRAP AND WASTE CO	HSCA	FELTON
21	DE-176	AMETEK, INC.	HSCA	WILMINGTON
22	DE-248	AMP CIRCUITS	HSCA	WILMINGTON
23	DE-266	AMTRAK WILM. REFUELING FACILITY	HSCA	NEWARK
24	DE-280	ATLAS SANITATION	HSCA	WILMINGTON
25	DE-131	BERGER BROTHERS	HSCA	WILMINGTON
26	DE-096	CADMUS LANDFILL	HSCA	WILMINGTON
27	DE-1018	CAPITOL CLEANERS	HSCA	KENTON
28	DE-002	CHESWOLD LANDFILL/COKERS #4	HSCA	DOVER
29	DE-1065	CHURCHMANS MARSH	HSCA	CHESWOLD
30	DE-046	CITI STEEL CORPN.	HSCA	NEWPORT
31	DE-102	COKER SAND PIT	HSCA	CLAYMONT
32	DE-003	COKERS LANDFILL #3	HSCA	DOVER
33	DE-282	CRESS COLLISION SERVICES, INC.	HSCA	CHESWOLD
34	DE-164	DEL STATE COLLEGE DUMP	HSCA	NEW CASTLE
35	DE-1003	DELAWARE AIR NATIONAL GUARD	HSCA	DOVER
36	DE-1151	DELAWARE BRICK PIT	HSCA	NEW CASTLE
37	DE-1059	DELAWARE CAR COMPANY	HSCA	NEW CASTLE
			HSCA	WILMINGTON

Delaware Department of Natural Resources and Environmental Control

Site Status Database - Total Inventory of Hazardous Substance Release Sites in Delaware (State Status + State Sequence)

ID Number	Site Name	State Status	Federal Status	City
38	DE-1068 DELAWARE COMPRESSED STEEL	HSCA	HSCA	WILMINGTON
39	DE-1129 DIAMOND OIL	HSCA	NO FURTHER ACTION	WILMINGTON
40	DE-1150 DOBBINSVILLE BALL FIELD	HSCA	HSCA	NEW CASTLE
41	DE-1008 DOVER SURVIVAL TRAINING ANNEX	HSCA	FUDS	DOVER
42	DE-1041 DRAVO MARSH	HSCA	HSCA	WILMINGTON
43	DE-239 ESHAM-DAVIS FILL AREA	HSCA	NO FURTHER ACTION	SELBYVILLE
44	DE-084 FORMER AMOCO POLYMER PLANT	HSCA	NO FURTHER ACTION	NEW CASTLE
45	DE-1119 FORT MILES	HSCA	FUDS	LEWES
46	DE-1011 FOX POINT PARK PHASE II	HSCA	HSCA	WILMINGTON
47	DE-138 GEORGETOWN AIRCRAFT SERV. INC.	HSCA	NO FURTHER ACTION	GEORGETOWN
48	DE-113 GEORGETOWN CLEANERS	HSCA	NO FURTHER ACTION	GEORGETOWN
49	DE-188 GEORGETOWN COAL GAS	HSCA	NO FURTHER ACTION	GEORGETOWN
50	DE-214 GORE, WL & ASSOC. INC. - NEWARK	HSCA	NO FURTHER ACTION	NEWARK
51	DE-1007 GOVERNOR BACON HEALTH CENTER	HSCA	HSCA	DELAWARE CITY
52	DE-226 HARRINGTON, ELLA SITE	HSCA	NO FURTHER ACTION	MILFORD
53	DE-016 HARRY WOOD LANDFILL	HSCA	NO FURTHER ACTION	NEW CASTLE
54	DE-252 HEALTHWAYS, INC. - OUI	HSCA	DEFERRED TO STATE	ODESSA
55	DE-049 ICI AMERICAS INC ATLAS PT SITE	HSCA	DEFERRED TO STATE	NEW CASTLE
56	DE-108 KENTON LANDFILL - OUI	HSCA	NO FURTHER ACTION	KENTON
57	DE-1067 KRIEGER FTNGER PROPERTY	HSCA	HSCA	WILMINGTON
58	DE-1136 LEISURE HAVEN MOBILE HOME PARK	HSCA	HSCA	CAMDEN
59	DE-222 LIN LEIGH INC.	HSCA	NO FURTHER ACTION	MILTON
60	DE-110 LITTON IND	HSCA	NO FURTHER ACTION	SMYRNA
61	DE-216 LOCKE PROPERTY	HSCA	NO FURTHER ACTION	SEAFORD
62	DE-217 LOWE SITE	HSCA	NO FURTHER ACTION	LEWES
63	DE-273 MAYS BODY SHOP(ROSE BOWL ROAD)	HSCA	NO FURTHER ACTION	DOVER
64	DE-185 MECO DRIVE SITE(BOXWOOD)	HSCA	NO FURTHER ACTION	WILMINGTON
65	DE-150 METCALF PIT	HSCA	NO FURTHER ACTION	LEWES
66	DE-213 MIDDLETOWN SEWER PLANT DUMP	HSCA	NO FURTHER ACTION	MIDDLETOWN
67	DE-1056 MILLSBORO DUMP SITE	HSCA	NO FURTHER ACTION	MILLSBORO
68	DE-283 NECASTRO AUTO SALVAGE	HSCA	NO FURTHER ACTION	NEW CASTLE
69	DE-1118 NEW CASTLE ARMY AIRFIELD	HSCA	FUDS	NEW CASTLE
70	DE-167 NEW CASTLE GAS COMPANY	HSCA	NO FURTHER ACTION	NEW CASTLE
71	DE-1140 NEWARK LUMBER	HSCA	HSCA	NEWARK
72	DE-1159 NEWPORT BOAT RAMP SITE	HSCA	HSCA	NEWPORT
73	DE-229 NEWPORT DRUM SITE	HSCA	NO FURTHER ACTION	NEWPORT
74	DE-071 NVF (YORKLYN)	HSCA	NO FURTHER ACTION	YORKLYN

Delaware Department of Natural Resources and Environmental Control

Site Status Database - Total Inventory of Hazardous Substance Release Sites in Delaware (State Status + State Sequence)

ID Number	Site Name	State Status	Federal Status	City	
75	DE-081	NVF STATE LINE LANDFILL	HSCA	NO FURTHER ACTION	YORKLYN
76	DE-1030	ONEAL FARM	HSCA	HSCA	SEAFORD
77	DE-1093	P & F MOTORCYCLES	HSCA	HSCA	DOVER
78	DE-231	PARADEE OIL - DOVER SITE	HSCA	NO FURTHER ACTION	DOVER
79	DE-104	PEARSONS CORNER DRUM SITE	HSCA	NO FURTHER ACTION	DOVER
80	DE-1057	PENN DEL	HSCA	HSCA	WILMINGTON
81	DE-012	PORTERS LANDFILL	HSCA	NO FURTHER ACTION	HOUSTON
82	DE-169	POTTS PROPERTY	HSCA	NO FURTHER ACTION	WILMINGTON
83	DE-1051	PUSEY AND JONES SHIPYARD	HSCA	HSCA	WILMINGTON
84	DE-245	REICHHOLD CHEMICAL INC.	HSCA	NO FURTHER ACTION	DOVER
85	DE-193	SALEM CHURCH - MUDDY RUN DUMP	HSCA	NO FURTHER ACTION	NEWARK
86	DE-251	SEABOARD LUMBER	HSCA	NO FURTHER ACTION	BRIDGEVILLE
87	DE-062	SES INC.	HSCA	NO FURTHER ACTION	NEWARK
88	DE-147	SIMPSON LUMBER COMPANY DUMP	HSCA	NO FURTHER ACTION	DOVER
89	DE-286	SOUTH WILMINGTON EAST & WEST	HSCA	HSCA	WILMINGTON
90	DE-166	SPATZ FIBERGLASS	HSCA	NO FURTHER ACTION	YORKLYN
91	DE-1004	STADIUM SITE	HSCA	HSCA	WILMINGTON
92	DE-224	STEVENSON LANE SITE	HSCA	NO FURTHER ACTION	GEORGETOWN
93	DE-242	SUMMIT AIRPORT	HSCA	NO FURTHER ACTION	MIDDLETOWN
94	DE-074	SUMMIT LANDFILL	HSCA	NO FURTHER ACTION	MIDDLETOWN
95	DE-129	SUSSEX CO LANDFILL #2 STOCKLEY	HSCA	NO FURTHER ACTION	MILLSBORO
96	DE-130	SUSSEX CO LANDFILL #3 - ANGOLA	HSCA	NO FURTHER ACTION	ANGOLA BEACH
97	DE-106	SUSSEX CO LANDFILL #4	HSCA	NO FURTHER ACTION	LINCOLN
98	DE-013	SUSSEX CO LANDFILL #5	HSCA	NATIONAL PRIOR LIST	LAUREL
99	DE-122	SUSSEX CO LANDFILL#1 BRDGVILLE	HSCA	NO FURTHER ACTION	BRIDGEVILLE
100	DE-123	SUSSEX COUNTY #6-OMAR	HSCA	NO FURTHER ACTION	OMAR
101	DE-173	SYNTECH	HSCA	NO FURTHER ACTION	NEWARK
102	DE-1005	TONI DRY CLEANERS	HSCA	HSCA	ELSMERE
103	DE-1103	WAYMAN FIRE PROTECTION	HSCA	HSCA	WILMINGTON
104	DE-1046	WILMINGTON COAL GAS - NORTHERN SECTION	HSCA	NO FURTHER ACTION	WILMINGTON
105	DE-114	WILMINGTON COAL GAS - SOUTHERN SECTION	HSCA	NO FURTHER ACTION	WILMINGTON
106	DE-1043	WILMINGTON COAL GAS - WESTERN SECTION	HSCA	HSCA	WILMINGTON
107	DE-1090	WILMINGTON PUBLIC WORKS YARD	HSCA	HSCA	WILMINGTON
108	DE-276	WYOMING DUMP	HSCA	NO FURTHER ACTION	WYOMING
109	DE-1149	GENERAL MOTORS CORPN - WILMINGTON ASSEMBLY PLA	INIT. INVESTIGATION	INIT. INVESTIGATION	FELTON
110	DE-212	ALL RITE RUBBISH INC 11 (OLD)	LOW PRIORITY	NO FURTHER ACTION	CLAYMONT
111	DE-249	ALLIED CHEMICAL DRUM	LOW PRIORITY	NO FURTHER ACTION	

Delaware Department of Natural Resources and Environmental Control

Site Status Database - Total Inventory of Hazardous Substance Release Sites in Delaware (State Status + State Sequence)

ID Number	Site Name	State Status	Federal Status	City	
112	DE-170	AMTRAK WILMINGTON RAILYARD	LOW PRIORITY	NO FURTHER ACTION	WILMINGTON
113	DE-187	APPLIED TECHNOLOGY INC	LOW PRIORITY	NO FURTHER ACTION	WILMINGTON
114	DE-112	ARTIS DRIVE SITE	LOW PRIORITY	NO FURTHER ACTION	DOVER
115	DE-205	ASSAWOMAN BAY	LOW PRIORITY	NO FURTHER ACTION	SOUTH BETHANY
116	DE-158	ATLANTIC AVENUE	LOW PRIORITY	NO FURTHER ACTION	ELSMERE
117	DE-209	ATLANTIC INDUSTRIAL OPTICS INC	LOW PRIORITY	NO FURTHER ACTION	GEORGETOWN
118	DE-204	AUGUSTINE BEACH / DEL. RIVER	LOW PRIORITY	NO FURTHER ACTION	AUGUSTINE BEACH
119	DE-037	BARCROFT CO	LOW PRIORITY	NO FURTHER ACTION	LEWES
120	DE-243	BLUE HEN AUTO BODY, INC.	LOW PRIORITY	NO FURTHER ACTION	DOVER
121	DE-253	BOMBAY HOOK NAUL REFUGE	LOW PRIORITY	NO FURTHER ACTION	LITTLE CREEK
122	DE-022	BORDEN CHEM CO SMRYNA	LOW PRIORITY	NO FURTHER ACTION	SMYRNA
123	DE-258	BROADKILL BEACH DRUM	LOW PRIORITY	NO FURTHER ACTION	MILTON
124	DE-184	BROOKSIDE DUMP	LOW PRIORITY	NO FURTHER ACTION	NEWARK
125	DE-025	CAPITOL RECOVERY	LOW PRIORITY	NO FURTHER ACTION	WILMINGTON
126	DE-233	CARPENTER LANDFILL	LOW PRIORITY	NO FURTHER ACTION	MILFORD
127	DE-034	CHAPMANS RD	LOW PRIORITY	NO FURTHER ACTION	NEWARK
128	DE-254	CHEMDECON TRAILER	LOW PRIORITY	NO FURTHER ACTION	DOVER
129	DE-152	CITY OF DOVER-PUBLIC WORKS	LOW PRIORITY	NO FURTHER ACTION	DOVER
130	DE-237	COLEMAN BUNTING PIT	LOW PRIORITY	NO FURTHER ACTION	SELBYVILLE
131	DE-220	COLLINS SITE	LOW PRIORITY	NO FURTHER ACTION	GUMBORO
132	DE-1078	CONNECTIONS CSP, INC	LOW PRIORITY	LOW PRIORITY	WILMINGTON
133	DE-238	D. BUNTING FILL AREA	LOW PRIORITY	NO FURTHER ACTION	SELBYVILLE
134	DE-203	DELAWARE BAY DRUM	LOW PRIORITY	NO FURTHER ACTION	CAMDEN
135	DE-116	DELAWARE WOOD PRESERVING COMPANY	LOW PRIORITY	LOW PRIORITY	DOVER
136	DE-260	DINAHS CORNER	LOW PRIORITY	NO FURTHER ACTION	WILMINGTON
137	DE-1073	DP & L/ CONGO MARSH	LOW PRIORITY	LOW PRIORITY	WILMINGTON
138	DE-257	EDGEMOOR, ABANDONED OFFSHORE DRUM	LOW PRIORITY	NO FURTHER ACTION	WILMINGTON
139	DE-174	ELECTRIC HOSE & RUBBER RECON	LOW PRIORITY	NO FURTHER ACTION	WILMINGTON
140	DE-155	GLASGOW DRIVE DUMP	LOW PRIORITY	NO FURTHER ACTION	GLASGOW
141	DE-056	GLASGOW SITE (HARVEY&KNOTTIS W)	LOW PRIORITY	NO FURTHER ACTION	GLASGOW
142	DE-262	HERBICIDE SPILL SITE	LOW PRIORITY	NO FURTHER ACTION	FOWLERS BEACH
143	DE-240	HITCHENS PIT	LOW PRIORITY	NO FURTHER ACTION	SELBYVILLE
144	DE-256	HOMALITE	LOW PRIORITY	NO FURTHER ACTION	WILMINGTON
145	DE-241	HUDSON-CULVER SITE	LOW PRIORITY	NO FURTHER ACTION	SELBYVILLE
146	DE-030	INDUSTRIAL PRODUCTS CO.	LOW PRIORITY	NO FURTHER ACTION	NEW CASTLE
147	DE-070	JAMES THOMPSON & CO, INC	LOW PRIORITY	NO FURTHER ACTION	GREENWOOD
148	DE-126	JULIANO SITE	LOW PRIORITY	NO FURTHER ACTION	WILMINGTON

Delaware Department of Natural Resources and Environmental Control

Site Status Database - Total Inventory of Hazardous Substance Release Sites in Delaware (State Status + State Sequence)

ID Number	Site Name	State Status	Federal Status	City	
149	DE-232	LARRY LONG SITE	LOW PRIORITY	NO FURTHER ACTION	LEWES
150	DE-160	MAGNOLIA SWAMP	LOW PRIORITY	NO FURTHER ACTION	NEWARK
151	DE-250	MERCAPTAN AIR RELEASE	LOW PRIORITY	NO FURTHER ACTION	DELAWARE CITY
152	DE-181	MIDDLEFORD DUMP	LOW PRIORITY	NO FURTHER ACTION	MIDDLEFORD
153	DE-079	MT PLEASANT RAILROAD DUMP	LOW PRIORITY	NO FURTHER ACTION	MT PLEASANT
154	DE-235	NANTICOKE HOMES	LOW PRIORITY	NO FURTHER ACTION	GREENWOOD
155	DE-148	NEW CASTLE ABANDONED CONT SITE	LOW PRIORITY	NO FURTHER ACTION	NEW CASTLE
156	DE-035	NEWARK CONCRETE CO.	LOW PRIORITY	NO FURTHER ACTION	NEWARK
157	DE-052	NEWARK HOUSING AUTH LANDFILL	LOW PRIORITY	NO FURTHER ACTION	NEWARK
158	DE-259	NEWARK MUNITION STORAGE	LOW PRIORITY	NO FURTHER ACTION	NEWARK
159	DE-054	O & T REALTY	LOW PRIORITY	NO FURTHER ACTION	NEWPORT
160	DE-059	OLIN CORP-SUNOLIN CHEM	LOW PRIORITY	NO FURTHER ACTION	CLAYMONT
161	DE-086	PARKWAY GRAVEL CO	LOW PRIORITY	NO FURTHER ACTION	NEWARK
162	DE-227	PUGH DUMP	LOW PRIORITY	NO FURTHER ACTION	DOVER
163	DE-072	REEVIS & REEVIS CLAY PIT	LOW PRIORITY	NO FURTHER ACTION	HOCKESSIN
164	DE-161	ROBSCOTT MANOR	LOW PRIORITY	NO FURTHER ACTION	NEWARK
165	DE-060	SCOTT PAPER CO-DOVER PLT	LOW PRIORITY	NO FURTHER ACTION	DOVER
166	DE-061	SEAFORD TOWN GAS	LOW PRIORITY	NO FURTHER ACTION	SEAFORD
167	DE-145	SQUARE CLUB LODGE LANDFILL	LOW PRIORITY	NO FURTHER ACTION	DOVER
168	DE-263	STANDARD ABANDONED DRUM	LOW PRIORITY	NO FURTHER ACTION	FOWLERS BEACH
169	DE-223	SUSSEX COUNTY AIRPORT SITE	LOW PRIORITY	NO FURTHER ACTION	GEORGETOWN
170	DE-050	TEXACO INC CLAYMONT TERMINAL	LOW PRIORITY	NO FURTHER ACTION	CLAYMONT
171	DE-207	THORO-KLEEN DRY CLNING & LNDRY	LOW PRIORITY	NO FURTHER ACTION	GEORGETOWN
172	DE-219	TRAVALINI SITE	LOW PRIORITY	NO FURTHER ACTION	FRANKFORD
173	DE-041	US CORP OF ENGR CANAL SITE	LOW PRIORITY	NO FURTHER ACTION	ST. GEORGE
174	DE-228	USAF(TENANT) WILM AIRPORT SI	LOW PRIORITY	NO FURTHER ACTION	NEW CASTLE
175	DE-172	USN NAVAL FACILITY-LEWES	LOW PRIORITY	NO FURTHER ACTION	LEWES
176	DE-225	VALLIANT FERTILIZER CO, INC	LOW PRIORITY	NO FURTHER ACTION	LAUREL
177	DE-177	VEPCO INDUSTRIAL PARK	LOW PRIORITY	NO FURTHER ACTION	CAMDEN
178	DE-168	WALKERS MILL MOBILE HOME PARK	LOW PRIORITY	NO FURTHER ACTION	BRIDGEVILLE
179	DE-221	WELLS SITE, J.	LOW PRIORITY	NO FURTHER ACTION	LEWES
180	DE-234	WILKERSON TERRACE SITE	LOW PRIORITY	NO FURTHER ACTION	MILFORD
181	DE-024	WILMINGTON MUN SEWAGE SYSTEM	LOW PRIORITY	NO FURTHER ACTION	WILMINGTON
182	DE-159	WILMINGTON TRAIN YARD	LOW PRIORITY	NO FURTHER ACTION	WILMINGTON
183	DE-146	WILSON CONTRACTING CO LANDFILL	LOW PRIORITY	NO FURTHER ACTION	NEW CASTLE
184	DE-162	WINDY HILLS	LOW PRIORITY	NO FURTHER ACTION	NEWARK
185	DE-001	ARMY CREEK LANDFILL	NATIONAL PRIOR LIST	NATIONAL PRIOR LIST	NEW CASTLE

Delaware Department of Natural Resources and Environmental Control

Site Status Database - Total Inventory of Hazardous Substance Release Sites in Delaware (State Status + State Sequence)

ID Number	Site Name	State Status	Federal Status	City
186	DE-063	CHEM-SOLV INC	NATIONAL PRIOR LIST	CHESWOLD
187	DE-004	COKERS LANDFILL #1 & #2	NATIONAL PRIOR LIST	CHESWOLD
188	DE-007	DELAWARE CITY PVC PLANT	NATIONAL PRIOR LIST	DELAWARE CITY
189	DE-017	DELAWARE SAND & GRAVEL LANDFILL	NATIONAL PRIOR LIST	NEW CASTLE
190	DE-031	DOVER AIR FORCE BASE (5 AREAS)	NATIONAL PRIOR LIST	DOVER
191	DE-057	DOVER GAS LIGHT CO	NATIONAL PRIOR LIST	DOVER
192	DE-020	E.I DU PONT, NEWPORT LANDFILL-(OU1,OU3-OU8)	NATIONAL PRIOR LIST	NEWPORT
193	DE-067	HALBY CHEMICAL	NATIONAL PRIOR LIST	WILMINGTON
194	DE-040	HARVEY & KNOTT DRUM SITE	NATIONAL PRIOR LIST	KIRKWOOD
195	DE-019	KOPPERS CO FACILITIES SITE	NATIONAL PRIOR LIST	NEWPORT
196	DE-043	METAL MASTERS	NATIONAL PRIOR LIST	SMYRNA
197	DE-042	NCR CORP	NATIONAL PRIOR LIST	MILLSBORO
198	DE-053	STANDARD CHLORINE CO	NATIONAL PRIOR LIST	DELAWARE CITY
199	DE-028	TYBOUTS CORNER LANDFILL	NATIONAL PRIOR LIST	NEW CASTLE
200	DE-011	WILDCAT LANDFILL	NATIONAL PRIOR LIST	DOVER
201	DE-271	CIBA-GEIGY SEEP	O & M	NEWPORT
202	DE-289	ARLON INC	PA/SI	BEAR
203	DE-1120	BAFUNDO ROOFING	PA/SI	NEW CASTLE
204	DE-290	DELACOTE CORP / EASTWIND	PA/SI	
205	DE-292	DELMACO	PA/SI	
206	DE-1144	DIAMOND STATE FOUNDRY / PULLMAN CAR WORKS	BPA II	WILMINGTON
207	DE-293	DP & L/ INDIAN RIVER	PA/SI	
208	DE-288	UNIVERSITY OF DELAWARE	PA/SI	
209	DE-1101	BANCROFT MILLS- PRE REMEDIAL	VCP	WILMINGTON
210	DE-285	BROWNTOWN	RENAMED/REGROUPED	WILMINGTON
211	DE-1079	CHRISTINA AVENUE SOUTH	RENAMED/REGROUPED	WILMINGTON
212	DE-1072	COMMERCE STREET	RENAMED/REGROUPED	WILMINGTON
213	DE-1112	DIAMOND OIL- PRE REMEDIAL	RENAMED/REGROUPED	WILMINGTON
214	DE-1052	EASTSIDE/SOUTH WILMINGTON	RENAMED/REGROUPED	WILMINGTON
215	DE-140	HIGH VOLTAGE MAINTENANCE SITE	RENAMED/REGROUPED	WILMINGTON
216	DE-191	PETTINARO TRANSFORMER SITE	RENAMED/REGROUPED	WILMINGTON
217	DE-1053	RIVERSIDE	RENAMED/REGROUPED	WILMINGTON
218	DE-1062	WILCO PLUMBING AND HEATING	RENAMED/REGROUPED	WILMINGTON
219	DE-287	PENINSULA PLATING	RENAMED/REGROUPED	WILMINGTON
			SI	BLADES

Delaware Department of Natural Resources and Environmental Control

Site Status Database - Total Inventory of Voluntary Cleanup Sites in Delaware (Site Name Sequence)

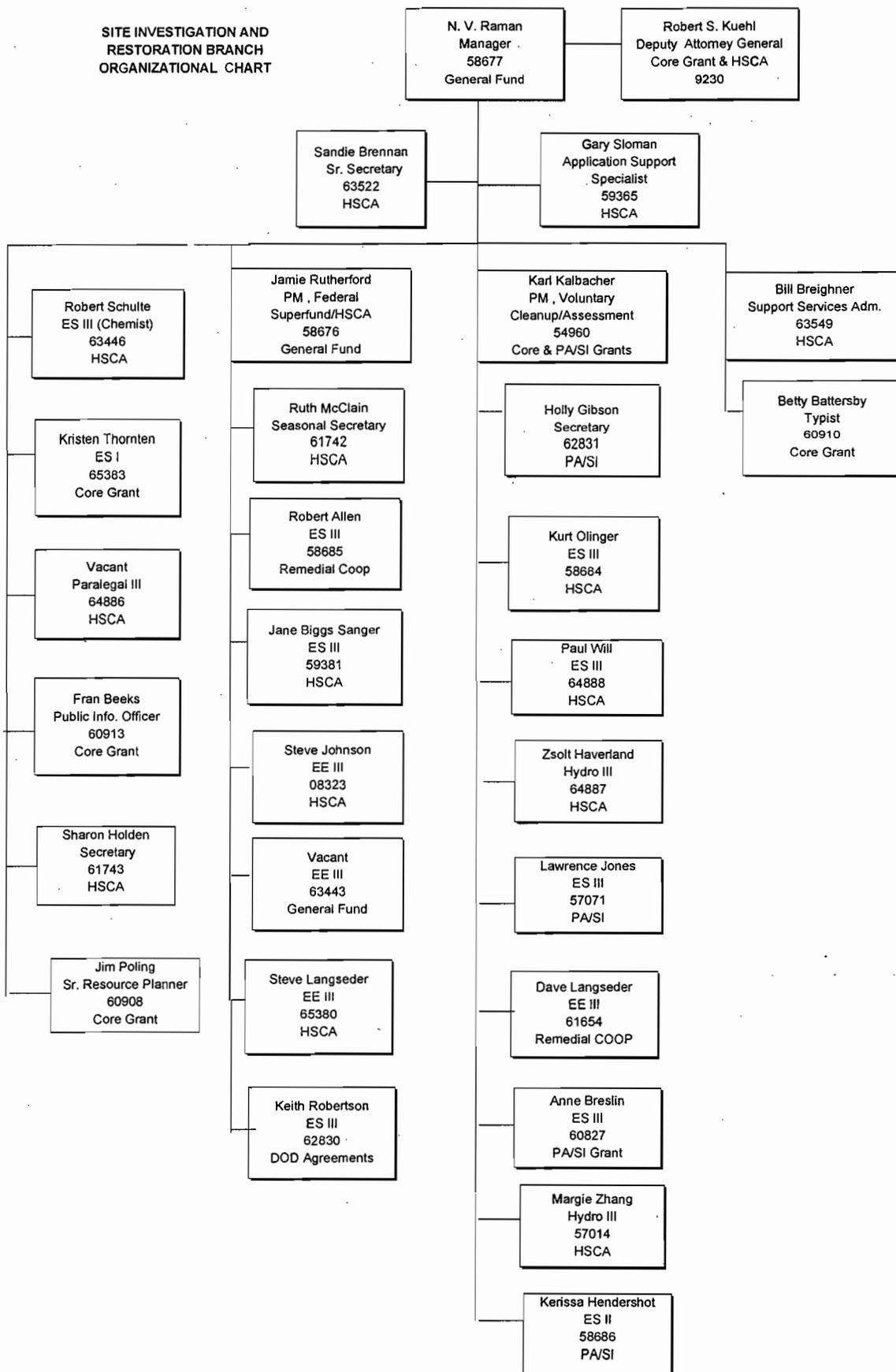
ID Number	Site Name	State Status	Federal Status	City
1	DE-1115 1000 FRENCH STREET SITE	VCP	VCP	WILMINGTON
2	DE-1097 1121 THATCHER STREET	VCP	VCP	WILMINGTON
3	DE-1142 704 WEST 11TH STREET	VCP	VCP	WILMINGTON
4	DE-1133 ARCHIVES BUILDING	VCP	VCP	DOVER
5	DE-1130 BANCROFT MILLS	VCP	VCP	WILMINGTON
6	DE-1061 BELLANCA HANGAR SITE	VCP	VCP	NEW CASTLE
7	DE-1109 BRANDYWINE FIBERS	VCP	VCP	WILMINGTON
8	DE-270 BUDD METAL	VCP	NO FURTHER ACTION	WILMINGTON
9	DE-1139 CHRISTINA RIVER PEDESTRIAN WALKWAY	VCP	VCP	WILMINGTON
10	DE-099 CITY OF WILM. MARINE TERMINAL	VCP	NO FURTHER ACTION	WILMINGTON
11	DE-095 CLAYVILLE DUMP	VCP	NO FURTHER ACTION	CHRISTIANA
12	DE-1044 CSX PROPERTY	VCP	VCP	WILMINGTON
13	DE-1104 DCI PROPERTY	VCP	VCP	WILMINGTON
14	DE-1087 DEEMER STEEL - NINTH AND WASHINGTON	VCP	VCP	NEW CASTLE
15	DE-1124 DEL CHAPEL OÜ2	VCP	VCP	NEWARK
16	DE-1125 DEL CHAPEL OÜ3	VCP	VCP	NEWARK
17	DE-1089 DEL TECH - WILMINGTON	VCP	VCP	WILMINGTON
18	DE-1157 DELDOT WEST STREET CONNECTOR	VCP	VCP	WILMINGTON
19	DE-1074 DP & L SUB./ DUPONT CHRISTINA LABS	VCP	VCP	WILMINGTON
20	DE-1092 DRAVO SHIP YARD- AMER INDUSTRIAL TECH	VCP	VCP	WILMINGTON
21	DE-1096 DRAVO SHIPYARD - HARBOR ASSOCIATES	VCP	VCP	WILMINGTON
22	DE-1039 EAGLE RUN	VCP	VCP	NEWARK
23	DE-165 ESTATE OF LESTER NOLAN	VCP	NO FURTHER ACTION	WILMINGTON
24	DE-1126 FORMER AMOCO POLYMER PLANT - INTERIM ACTION	VCP	VCP	NEW CASTLE
25	DE-1110 FORMER DOVER ICE PLANT	VCP	VCP	DOVER
26	DE-1154 HOLLINGSWORTH PROPERTIES	VCP	VCP	Milford
27	DE-1156 MILFORD MOSQUITO CONTROL SHOP	VCP	VCP	WILMINGTON
28	DE-1155 MLK BOULEVARD, NORTH - SOUTH SECTION	VCP	VCP	DOVER
29	DE-1143 MORRIS WORK RELEASE CENTER	VCP	VCP	WILMINGTON
30	DE-1135 NAAMANS ROAD TEXACO	VCP	VCP	NEW CASTLE
31	DE-1064 NEW CASTLE FIRE SCHOOL	VCP	VCP	NEWARK
32	DE-039 NEWARK LANDFILL	VCP	VCP	NEWARK
33	DE-230 NORTH AMERICAN SMELTING CO	VCP	NO FURTHER ACTION	WILMINGTON
34	DE-199 NVF COMPANY NEWARK	VCP	VCP	NEWARK
35	DE-1137 OBRIEN ENERGY SERVICES COMPANY	VCP	VCP	WILMINGTON
36	DE-1147 PENINSULA PARK LLC	VCP	VCP	WILMINGTON
37	DE-1146 PROPOSED NEW CASTLE COUNTY COURT HOUSE	VCP	VCP	WILMINGTON

Delaware Department of Natural Resources and Environmental Control

Site Status Database - Total Inventory of Voluntary Cleanup Sites in Delaware (Site Name Sequence)

<u>ID Number</u>	<u>Site Name</u>	<u>State Status</u>	<u>Federal Status</u>	<u>City</u>
38	DE-1145 PROPOSED WILMINGTON SWIMMING POOL SITE	VCP	VCP	WILMINGTON
39	DE-1100 RED LION PROPERTY	VCP	VCP	NEW CASTLE
40	DE-1141 SAC TIRE PROPERTY	VCP	VCP	WILMINGTON
41	DE-1105 SARDO AND SONS	VCP	VCP	WILMINGTON
42	DE-153 SCULL PROPERTY	VCP	NO FURTHER ACTION	DOVER
43	DE-1026 TERMINAL AVENUE WIDENING	VCP	VCP	WILMINGTON
44	DE-1113 WILMINGTON CSO	VCP	VCP	WILMINGTON

SITE INVESTIGATION AND RESTORATION BRANCH ORGANIZATIONAL CHART



ATTACHMENT C: GLOSSARY

DNREC

The Department of Natural Resources and Environmental Control.

ECDI Program

The Early Compliance and Detection Incentive Program which provides reimbursements to responsible parties who have conducted cleanup activities of leaking underground storage tanks.

Facility Evaluation (FE)

This involves a limited scope of investigation to confirm the release or a threat of release of hazardous substances, to develop information to evaluate the risk to public health, welfare and the environment, to determine the relative priority of a facility and to determine what further action is needed at the site.

Facility Identification

The process of identifying facilities with a release of hazardous substances, based on complaints from the public, reports from other agencies or parties, etc.

Feasibility Study (FS)

This process follows the remedial investigation and identifies the remedial alternatives appropriate to the site.

HSCA

The Delaware Hazardous Substance Cleanup Act first enacted in July of 1990, and later amended in June of 1993 and July of 1995 respectively. It is also known as the State Superfund Program.

HSCA Fund

A fund created for the purpose of addressing hazardous substance release sites in Delaware. The Fund consists of revenues from a 0.9% tax on gross receipts from petroleum products, penalty monies, and monies obtained through recovery of costs from potentially responsible parties.

Identification and Notification of Potentially Responsible Parties (PRPs)/PRP Search

The process whereby the Department will initiate actions to identify and notify the PRPs associated with the facility where a release or a threat of release has been confirmed.

Initial Investigation

The process of determining if a release or imminent threat of release of hazardous substances may have occurred that warrants further action. This can include a field visit and an examination of existing records.

Interim Action

An action at a site to prevent, minimize or mitigate harm to public health, welfare and the environment while the investigation and the study are ongoing.

Operable Unit (OU)

A portion of a Superfund site that is addressed separately from the rest of the site to allow for easier management or a more timely response.

Operation and Maintenance (O & M)

Actions to ascertain the effectiveness of the remedial action.

Potentially Responsible Parties (PRPs)

Parties, including owners, and operators, who may have contributed to the contamination at a site, and may be liable for costs related to response actions at that site.

PRP Lead

This refers to a site where the PRP(s) performs investigative and remedial actions, and bears the costs of those activities.

Remediation

The implementation of a selected remedy that may consist of phases such as design, construction, operation and maintenance, and compliance monitoring.

Remedial Action (RA)

This is a response action at a site that involves the containment, treatment, isolation, and removal of hazardous substances in order to prevent, minimize, or mitigate harm to public health, welfare and the environment.

Remedial Investigation (RI)

This is an extensive investigative study conducted at a facility to define the risks to public health, welfare and the environment.

State/Fund Lead

This refers to a site where a PRP: (1) cannot be identified; (2) is unwilling to perform investigative or remedial activities; and (3) is unable to pay for cleanup. In such instances, the Department may carry out the investigative and remedial activities at the site using monies from the HSCA Fund.

Voluntary Cleanup Program (VCP)

A program established by the Site Investigation & Restoration Branch in order to promote voluntary remediation of contaminated sites. It is hoped that this will also promote the economic development of brownfields, thereby conserving greenfield areas.