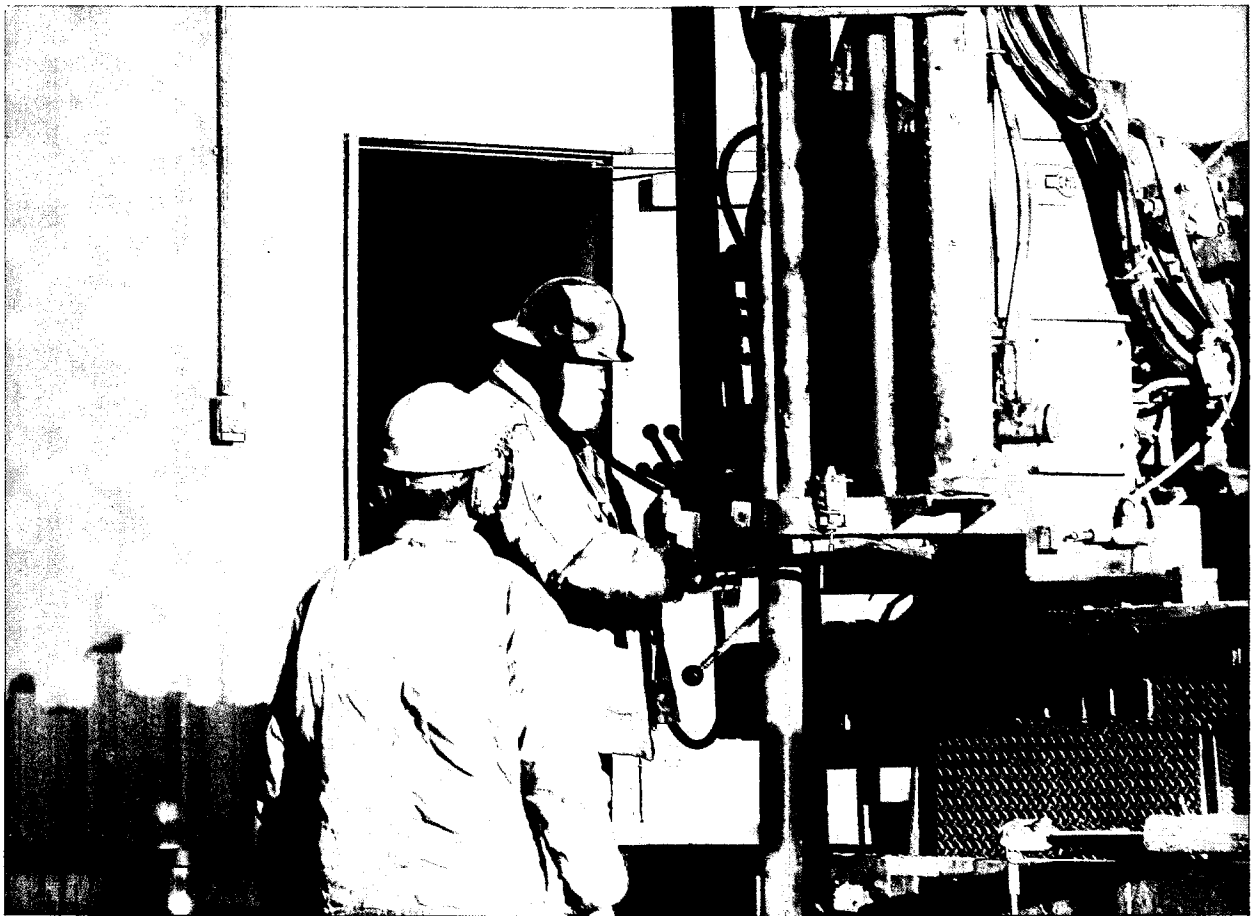


**SOUTH CAROLINA**  
**HAZARDOUS WASTE CONTINGENCY FUND**

**ANNUAL REPORT**

Fiscal Year 2006: July 1, 2005 through June 30, 2006



South Carolina Department of Health  
and Environmental Control

**SITE ASSESSMENT &  
REMEDIATION DIVISION  
OF THE  
BUREAU OF LAND & WASTE  
MANAGEMENT**

**SOUTH CAROLINA DEPARTMENT OF HEALTH AND  
ENVIRONMENTAL CONTROL**



**BUREAU OF LAND AND WASTE MANAGEMENT  
DIVISION OF SITE ASSESSMENT AND REMEDIATION**

**ANNUAL REPORT  
FISCAL YEAR ENDING JUNE 30, 2006**

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## *Introduction*

This Annual Report is submitted to the South Carolina General Assembly as required by S.C. Code Ann. Section 44-56-180(b) of the South Carolina Hazardous Waste Management Act ("HWMA"). Section 44-56-180(b) mandates that the South Carolina Department of Health & Environmental Control ("DHEC" or the "Department") annually report on the activities and response actions that have been carried out under the auspices of the Hazardous Waste Contingency Fund ("HWCF" or "State Superfund"). DHEC's State Remediation Section further publishes this report to provide outreach and education to a wide variety of audiences, including other elected officials, financial and real estate communities, businesses, consultants, local governments, redevelopment authorities, and the general public.

This report focuses on sites across South Carolina that have known or perceived environmental contamination. During FY06, the staff conducted and oversaw various types of response actions at over 200 sites, including state-lead sites, emergency response sites, federal Superfund sites, and Brownfields sites. While some of these sites are being addressed by potentially responsible parties ("PRPs") or non-responsible parties ("NRPs"), many response actions and the Department's oversight activities are funded totally or partially by the HWCF. Field activities supported by the HWCF include the following: a remedial investigation at the Philip Services Corporation Site (a former hazardous waste incineration facility) in Rock Hill; a pilot study for groundwater treatment at the Stoller Chemical Company facility in Jericho; an investigation and removal at a former methamphetamine site in Charleston County; and emergency response activities that resulted from a hydrogen chloride smoke plume caused by a huge fire at the former JP Stevens Mill #3 in Great Falls. The HWCF also supported several criminal investigations that resulted in convictions for illegal waste disposal as well as reimbursement of the Department's environmental response costs.

In addition to investigation and cleanup activities, the Department was successful in many cost recovery efforts in FY06. Judicial settlements were reached with several PRPs for past response costs and future cleanup activities at the Cone Mills-Union Bleachery Site in Greenville. In the absence of these settlements, this site would have become a major financial commitment for the HWCF. Without the need for litigation, the Department also recovered all past response costs at the Blackberry Valley Landfill Site. Future cleanup activities at this site are being funded by Greenville County under a consent agreement. The Department also entered into numerous other consent agreements and contracts with private parties to perform response actions with Departmental oversight.

Despite these successes, we are concerned about our future ability to quickly and effectively address the many threats to human health and the environment that are posed by hundreds of uncontrolled waste sites in South Carolina. The State Superfund Program relies heavily on the HWCF for contractual services as well as for salaries of staff who perform and oversee state-lead and private party cleanup actions. During FY06, HWCF expenditures totaled approximately \$1.97 million, while revenues (primarily from cost recovery settlements and reimbursements of

oversight costs) totaled approximately \$847,000. Since the summer of 2000 when the HWCF lost its permanent funding source, the HWCF balance has dropped from over \$22 million to approximately \$11 million in June 30, 2006. (See Figure on page 11.) The Department continues to seek a permanent funding source for the HWCF so that uncontrolled sites can be addressed in a timely and efficient manner.

## *The Superfund Program: What Roles Are Taken By Our Federal and State Governments to Address Hazardous Waste Sites?*

The primary purpose of the Superfund Program is to investigate and clean up abandoned and uncontrolled hazardous waste sites. In South Carolina, the Superfund Program is implemented pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the South Carolina Hazardous Waste Management Act (SCHWMA). CERCLA was created to identify and manage the nation's worst abandoned and uncontrolled hazardous waste sites. Through the SCHWMA, the Department is authorized to implement and enforce CERCLA and assess and remediate contaminated sites.

### **I. The Federal Superfund Law, Process, and Procedure**

#### **A. Federal Superfund Law**

In 1980, the United States Congress passed CERCLA, in response to environmental problems such as the State of New York's Love Canal Site located near Niagara Falls. CERCLA provided federal funds for responding to releases and threatened releases of hazardous substances and created a liability scheme that encouraged Potentially Responsible Parties (PRPs) to address sites and provided a mechanism for recovering costs from recalcitrant parties.

In 1986, after demands on the Federal Superfund Program became more apparent, Congress reauthorized CERCLA and increased funding and authority for the United States Environmental Protection Agency (EPA). It also increased the State's role in implementing that law. This reauthorization was called the Superfund Amendments and Reauthorization Act (SARA). The Federal Superfund Program was reauthorized again by Congress in 1991, allowing the program to continue under the same funding and regulatory framework. Congress has not formally reauthorized CERCLA since 1991, but several amendments have been added and the Superfund Program remains in the federal budget and operates under the guidelines of the 1991 reauthorization.

#### **B. Federal Superfund Process**

The Federal Superfund process begins with site discovery or notification of possible releases of hazardous substances. If a site requires immediate attention, EPA's Emergency Response and Removal Branch may perform actions to address immediate threats to the public health or the environment. If a site does not pose an imminent threat, it is screened to determine whether it warrants further evaluation for remedial (or long-term) measures. EPA then evaluates a site to determine if the release(s) of hazardous substances qualifies for placement on the Federal Superfund Program's National Priorities List (NPL). Sites that do not qualify for the NPL are referred to the State Superfund Program.

If a site is placed on the NPL, a Remedial Investigation/Feasibility Study (RI/FS) is conducted. A Remedial Investigation (RI) is an in-depth investigation to determine the nature and extent of contamination at the site. The Feasibility Study (FS) provides a comparison of various cleanup options that would make the site safe for the public and the environment. From the information in the FS, a Proposed Plan is developed offering a preferred remedial option. The public is given a 30-day comment period on the Proposed Plan during which a public meeting is held to encourage community input and participation concerning the suggested options for cleanup. After the comment period, a Record of Decision (ROD) is written to formally document the cleanup technology that will be implemented at the site.

After the ROD, the project enters the Remedial Design/Remedial Action (RD/RA) phase, which is a site's actual remedy designed and carried out. Ongoing monitoring of site conditions occurs to ensure that the remedy is protective of public health and the environment. EPA may delete a site from the NPL when it determines that no further response is required to protect human health and the environment.

Under CERCLA, EPA encourages PRPs to pay for Superfund cleanups. One or several PRPs may participate. These are called enforcement-lead sites. At other sites, however, there may be no known PRPs, or the PRP may not be able to afford the necessary cleanup actions. When a PRP-financed cleanup is not possible, the site is addressed using the Federal Superfund Trust Fund, which was generated by taxes on petroleum and chemical companies. Sites that are remediated using the Trust Fund are called Federal Fund-lead sites. Where PRPs are unwilling to perform cleanup activities, EPA pursues PRPs for cost recovery through administrative and legal actions. Regardless of whether the cleanup is financed by the Superfund Trust Fund or PRPs, CERCLA requires the same cleanup process and the Department works closely with EPA on the Federal-lead sites.

## **II. The State Superfund Law and Procedure**

### **A. State Superfund Law**

The Department's Division of Site Assessment and Remediation (SAR) administers the State Superfund Program under authority of the South Carolina Hazardous Waste Management Act, S.C. Code Ann. § 44-56-200, which in 1981 adopted CERCLA Section 107 (liability provisions) by reference and gave the Department the authority to implement and enforce CERCLA. Subsequent state legislation provided that fees be charged for disposal of hazardous waste into permitted landfills in South Carolina and created the Hazardous Waste Contingency Fund, which is also known as the "State Superfund." This fund is used to address uncontrolled sites when no other sources are available or private parties are not willing to address a site. As of this writing, Safety-Kleen (formerly known as Laidlaw and GSX) landfill in Pinewood was permitted for hazardous waste disposal in South Carolina. Later legislation imposed a fee on non-hazardous waste disposed at Safety-Kleen.

In 2000, Safety-Kleen closed the facility in Pinewood and filed for bankruptcy. Since then, the only revenue going into the Hazardous Waste Contingency Fund is through State Superfund cost recovery efforts and the oversight billing of private parties performing work under consent agreements and voluntary cleanup contracts. When the Pinewood facility closed, the Uncontrolled Site portion of the HWCF had a balance of over approximately \$22M. On June 30, 2006, the balance was approximately \$11M. (See Figure 1 on page 11.) In order for the Department to continue taking a proactive role toward cleaning up contaminated sites across South Carolina, we need a continuing source of funding for the Hazardous Waste Contingency Fund to continue performing timely and effective cleanup efforts.

## **B. DHEC's State Superfund Procedure**

The Bureau of Land and Waste Management's Division of State Assessment and Remediation is responsible for managing the assessment and remediation of South Carolina's abandoned or uncontrolled hazardous waste sites or the State Superfund sites. The site assessment and remediation process, which mirrors EPA's process, may include a short-term removal action or a complex and lengthy remedial investigation and cleanup.

The Department's goal is to evaluate and set priorities for sites in order to address the worst cases first. Unless the Department deems an imminent threat exists or a criminal investigation is necessary, state-funded response actions are taken only after the Department initiates the appropriate administrative procedures to secure alternate funding. Considerable time and effort is expended to ensure that all available funds from the responsible parties and other sources are utilized before drawing on funds from the Hazardous Waste Contingency Fund. These actions enable the Department to administer the Contingency Fund in a cost-effective manner and to maintain compliance with the South Carolina Hazardous Waste Management Act.

There has been considerable progress in the Department's efforts to address uncontrolled hazardous waste sites in spite of the complex process involved in resolving problems that have taken decades to develop. For example, many sites have been abandoned by bankrupt firms or are the product of "midnight" dumping and thus, the contamination remains unknown and undiscovered for years. This situation provides the multiple challenges of identifying the materials involved, the persons responsible, defining the true extent of the problem and its associated risk, and notifying the community of findings and keeping them informed and involved in the cleanup efforts. Even though information on the chemicals used at a facility is often available, information on wastes may not be, and identifying the source and nature of the contamination is often very difficult. Considerable resources must be invested to properly sample and analyze materials, which are likely to be volatile, reactive, explosive, corrosive, and/or toxic.

The Department is often forced to complete time consuming and expensive jobs due to the unwillingness or inability of private parties to effectively manage remedial actions. Searches for responsible parties to pay for corrective actions at a site can be exhaustive and slow. However, except when an imminent threat exists, prior to using state funds to pay for response actions, the Department is mandated by law to identify and attempt to exhaust any applicable liability insurance, other financial assurance mechanisms provided by the responsible parties, or utilize



funds available. As a result, legal issues frequently add to the complexity of cleanups. The Department attempts to negotiate settlements for voluntary cleanups to avoid expenditures from the "State Superfund." These voluntary agreements can avoid time consuming and expensive litigation often associated with convincing non-cooperative parties to respond.

### **III. The Division of Site Assessment and Remediation**

SAR is responsible for performing and overseeing the assessment and clean-up of State Superfund sites, implementing the Brownfields/Voluntary Cleanup Program and Drycleaning Restoration Program; assisting EPA with its Federal Superfund Sites in South Carolina; and overseeing the Federal Facilities Agreement at the Savannah River Site. The Hazardous Waste Contingency Fund is used in whole or in part by the following sections of SAR: State Site Assessment, State Remediation, Brownfields/Voluntary Cleanup Program, and Emergency Response. Other sections or areas of SAR perform duties that receive funding other than from State Superfund are: the Federal Site Assessment, Federal Facilities Agreement, and the Dry Cleaning Program. Each section of SAR and their responsibilities are described below, with the exception of the Dry Cleaning Program of which submits a separate annual report.

#### **A. The State Remediation Section**

The State Remediation Section is responsible for addressing sites that do not qualify for action under the Federal Superfund Program. The State Remediation Section first tries to persuade private parties to perform the necessary work through a consent agreement, cost recovery settlement agreement, or through the Voluntary Cleanup Program (VCP). If a responsible party enters into a formal agreement and completes the work to the Department's standards, the party will receive a covenant not to sue from the Department. If the PRP is unwilling or unable to conduct response activities, the Department may perform the work using a State Superfund Contractor and monies from the State's Hazardous Waste Contingency Fund.

Project Managers are assigned to sites and are responsible for determining the necessary scope of work as well as overseeing the work and costs associated with the site. Department staff are typically on-site during the assessment and remediation activities. There are 14 full-time staff who perform project management/technical reviews for State and Federal Superfund sites and Drycleaner sites. There are five additional staff who are responsible for tasks that support the program including negotiating contracts for site cleanup, recovering costs from responsible parties, reviewing baseline human health risk assessments for contaminated sites, reviewing invoices submitted from contractors for state-lead sites, assisting project managers with administrative work, overseeing projects, handling the public participation component, and assisting the Department's legal staff on CERCLA investigations and cost recovery issues.

#### **B. Brownfields/Voluntary Cleanup Program**

The Voluntary Cleanup Program began in 1988 and was expanded and enhanced to include a brownfields component in 1995. In May 2000, the Brownfields/Voluntary Cleanup Program

Law, Article 7 of the South Carolina Hazardous Waste Management Act, was signed. This law allows responsible parties to enter into contracts to perform assessment and remediation of sites and receive the Department's covenant not to sue for the work performed to the Department's satisfaction. Further, the Brownfields/VCP Law allowed parties not responsible for the contamination to enter into a contract with the Department; acquire a property; perform an environmental scope of work designed to assess the contamination; take reasonable steps to stop continuing releases and make the property safe for its intended future use; and receive contribution protection; and state CERCLA liability protection for existing contamination. In June of 2005, the Brownfields/VCP was amended to add another protection for non-responsible parties. This protection is third-party liability protection that can only be acquired through a voluntary cleanup contract. From July 1, 2005 through June 30, 2006, the Department entered into nine responsible party voluntary cleanup contracts and 35 non-responsible party voluntary cleanup contracts.

Non-responsible parties entering into a voluntary cleanup contract are eligible for financial incentives. These incentives include the following: tax credits for environmental work; \$1000 more for each job created that is eligible for a job tax credit; property tax exemption for up to five years upon completion of the voluntary cleanup contract with county concurrence; and fee in lieu of taxes with a \$1 million investment in the property.

### **C. The Federal and State Site Assessment Section**

The Site Assessment Section is responsible for evaluating potential hazardous waste sites for EPA to determine if they should be included on the NPL. The Site Assessment Section uses the pre-Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) screening as its first step for reviewing sites. The pre-CERCLIS screening includes a file review, site reconnaissance, limited environmental sampling, and completion of a checklist and/or a brief summary report. The sites are discussed at regular meetings of the Self-Directed Work Team (SDWT) (see below). The outcome of a pre-CERCLIS screening is usually either adding the site to CERCLIS for further investigation or referring it to the State Superfund Program or another appropriate area within the Department. Sites requiring further assessment are scheduled for a Preliminary Assessment/Site Inspection (PA/SI). The PA/SI includes the collection of environmental samples, a Hazard Ranking Score (HRS), and a report summarizing the findings. The HRS is an EPA model used to evaluate sites that may score high enough to be included on the NPL. If additional information is still warranted to determine if a site qualifies for the NPL, an Expanded Site Inspection (ESI) may be conducted. The ESI is similar to the PA/SI but may include the collection of a larger number of samples or more detailed, site-specific information. The final stage of the process is the HRS package, which is the official documentation used to place a site on the NPL. At any stage of the assessment process, it may be determined that a site will not score high enough to be on the NPL. Such sites are given a Federal No Further Remedial Action Planned (NFRAP) designation by the Self-Directed Work Team and are referred to the State Superfund Program or another appropriate area within the Department. In FY06, Site Assessment staff performed 1 Expanded Site Investigation, 2 pre-CERCLIS screenings with checklist and narrative, and 17 pre-CERCLIS screenings with Expanded Investigations and Reports.

## **Self-Directed Work Team**

A Self-Directed Work Team (SDWT), consisting of Department and EPA staff was formed in 1994. This partnership was designed to build and maintain a working relationship between the state regulatory agency and federal regulatory agency. The SDWT works together to review and discuss sites in South Carolina which are being considered for the Superfund Program. In FY06, the continued focus of the team's activities was a Site Discovery Initiative (SDI). The SDI focuses on historical industries that may have lingering environmental concerns that were thought to be under-evaluated or in need of assessment. Examples of focus industries during FY06 are out-of-operation textile dyeing and finishing operations and former phosphate fertilizer manufacturers. The SDI is an ongoing process that enables the SDWT to prioritize sites that warrant additional investigation.

## **D. The Federal Facilities Agreement (FFA) Section**

The Savannah River Site (SRS) is addressed under the Federal Facilities Agreement (FFA), which is a three-party agreement between EPA, the United States Department of Energy (DOE), and the Department. The FFA was finalized on August 16, 1993. This agreement outlines the corrective/remedial action process from site investigation through site remediation and specifies the procedures for the parties to follow in setting priorities for this process. The Department's FFA Section oversees the implementation of the FFA and ensures integration of both the Resource Conservation Recovery Act (RCRA) and CERCLA requirements applying to environmental activities at SRS. In addition, the FFA establishes the requirements for the prevention and mitigation of releases (or potential releases) from the SRS High Level Radioactive Waste Tank Systems.

The Department began in 2004 evaluating the environmental condition of facilities at SRS that DOE plans to decommission and demolish (D&D). The DOE provides information about each D&D facility in two separate documents: the Facility Decommissioning Evaluation (FDE), which is submitted to the Department prior to the commencement of decommissioning activities; and the Decommissioning Project Final Report (DPFR), which provides information about the environmental conditions at a facility after decommissioning is complete. The D&D efforts were coordinated with Soil and Groundwater Closure Projects (SGCP) under the FFA in a comprehensive effort to close entire areas of the SRS.

Key project documents were reviewed during FY06 (October 1, 2005 through September 30, 2006). The primary documents reviewed consisted of 18 Site Evaluation (SE) Reports, four RCRA Facility Investigation/Remedial Investigation (RFI/RI) Workplans, three RFI/RI Reports, three Baseline Risk Assessments (BRA), three Corrective Measures Study/Feasibility Studies (CMS/FS), one Corrective Implementation Plan/Remedial Action Implementation Plan, three Statement of Basis/Proposed Plans (SB/PP), three Proposed Plans (PP), nine Record of Decisions (RODs), eight RCRA Permit Modifications, 14 Facility Decommissioning Evaluations (FDE),

46 Decommissioning Project Final Reports (DPFR), two Final Remediation Reports (FRR), and 26 other miscellaneous primary documents. Fifty-five (55) other administrative duties were conducted during FY06 that are not accounted for above. These include, but are not limited to, extension requests and monitoring well approvals.)

#### **IV. The Emergency Response Section**

The Emergency Response Section is also housed within the Bureau of Land and Waste Management under the Division of Hazardous Waste and Emergency Response.

The Emergency Response Section is responsible for overseeing the emergency response contract. The contract is a strong asset to the Superfund program. Before this contract came into existence, local, county, and state governments were forced to rely on the federal government and concerned corporate citizens of the state to handle incidents when wastes were spilled, illegally dumped, or abandoned on public property. The contract is used to secure, sample, and dispose of wastes.

State Emergency Response contractors include Moran Environmental Recovery, Inc. with a branch office in North Charleston, South Carolina, for the eastern region of the state; and, Nu-Way Industrial Services, Inc. for the middle and upper regions of the state. Both contractors work on a 24-hour, on-call basis and are required to respond within three hours to their respective regions within the state.

DHEC's Emergency Response Team (ERT) expended approximately \$40,370.00 responding to twenty incidents during FY06. ERT recovered \$15,821.13 from the National Pollution Funds Center (NPFC) during FY06. The Department is seeking reimbursement of another \$11,370 from the NPFC for FY06. The amount of reimbursement money varies from year to year depending on the number and types of incidents that occur.

On June 6, 2006, a huge fire, which created a huge plume of smoke and required the evacuation of approximately 1000 resident, occurred at the Republic Cotton Mill in Great Falls, SC. The ERT responded, working in conjunction with other emergency local officials, and assisted in extinguishing two remaining hot spots on June 27, 2006. State staff performed air monitoring to ensure there were no additional hydrogen chloride releases.

#### **V. Public Participation in South Carolina**

When Congress passed CERCLA in 1980, it incorporated public involvement into the Superfund process. Congress intended to ensure that the people whose lives were affected by abandoned and uncontrolled hazardous waste sites would have a voice in how their communities were addressed and cleaned up. DHEC adopted these values and is committed to early and meaningful community involvement during State Superfund cleanup. Our duty as a state agency is to educate, inform, and involve the citizens, elected officials, and the local government officials of a Superfund community on the issues that pertain to that particular site.

The Department's SAR has historically strived to inform the public of environmental impacts of contamination in their communities and to involve the communities with decision-making opportunities. Like EPA, SAR: (1) provides fact sheets written for the public; (2) holds public meetings and availability sessions at different phases of response; (3) provides the public with 30-day periods in which to comment on proposed cleanup activities of which such notice is published in a local newspaper of general circulation within the affected community, and (4) provides 30-day periods to comment on various documents such as cost recovery settlement agreements, judicially-approved settlements, or voluntary cleanup contracts with a non-responsible party or parties, of which notice is published not only in the local newspaper but also in the South Carolina State Register; and (5) establishes a local repository in which the Department provides copies of the administrative record (AR) (which contains documents the Department relied on in making any technical decisions at a site) and the AR is updated at different phases of cleanup.

In addition to the above public participation activities, a non-responsible party entering into a Voluntary Cleanup Contract (VCC) is required to post a sign, in clear view from the main entrance to the site stating the name, address, and telephone number of a contact person for information regarding the site's response actions and proposed reuse. The sign must be posted beginning with the notice of the 30-day public comment period on the proposed VCC and continuing through the completion of the terms of the VCC.

Depending on local information needs, community relations staff may arrange availability sessions, public meetings, one-on-one meetings with community members, site tours, regular mailings, a resource library, press conferences, or a variety of other activities designed specifically for the community. A contact person from the Department is always available to answer citizens and media inquiries about Superfund sites. A specific Community Relations Plan is developed for all federal-lead and state-lead sites as deemed appropriate.

## Hazardous Waste Contingency Fund Balance for FY06

The Department has established separate accounts within the Hazardous Waste Contingency Fund for permitted sites and uncontrolled sites. The "Uncontrolled Sites" fund is reflected below in the balance statement.

### **UNCONTROLLED SITES FUND**

Opening Balance (7/1/05)	\$ 12,543,817.88
Revenues	\$ 847,133.50
Expenditures	(\$1,966,919.27)*
Closing Balance (6/30/06)	\$11,424,032.11
Obligated as State Match for National Priorities List Sites	(\$ 601,230.00)
Obligated for Site Investigation Contract (Purchase Orders and Currently Assigned Response Activities)	(\$9,413,416)**
Obligated for Emergency Response Contracts	(\$ 300,000.00)
Obligated for Salaries and Operating Expenses	(\$ 720,773.00)
Unobligated Balance for Uncontrolled Sites Fund (6/30/06)	\$388,613.11

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#### \* BREAKDOWN OF FY'06 EXPENDITURES

Uncontrolled Sites Portion	\$ 1,240,726.06
Emergency Response Portion	\$ 43,661.18
Salaries and Fringe Benefits	\$ 682,532.03
 Total Expenditures	 \$ 1,966,919.27

\*\*See "Obligations for Environmental Remediation Contract as of June 30, 2006."

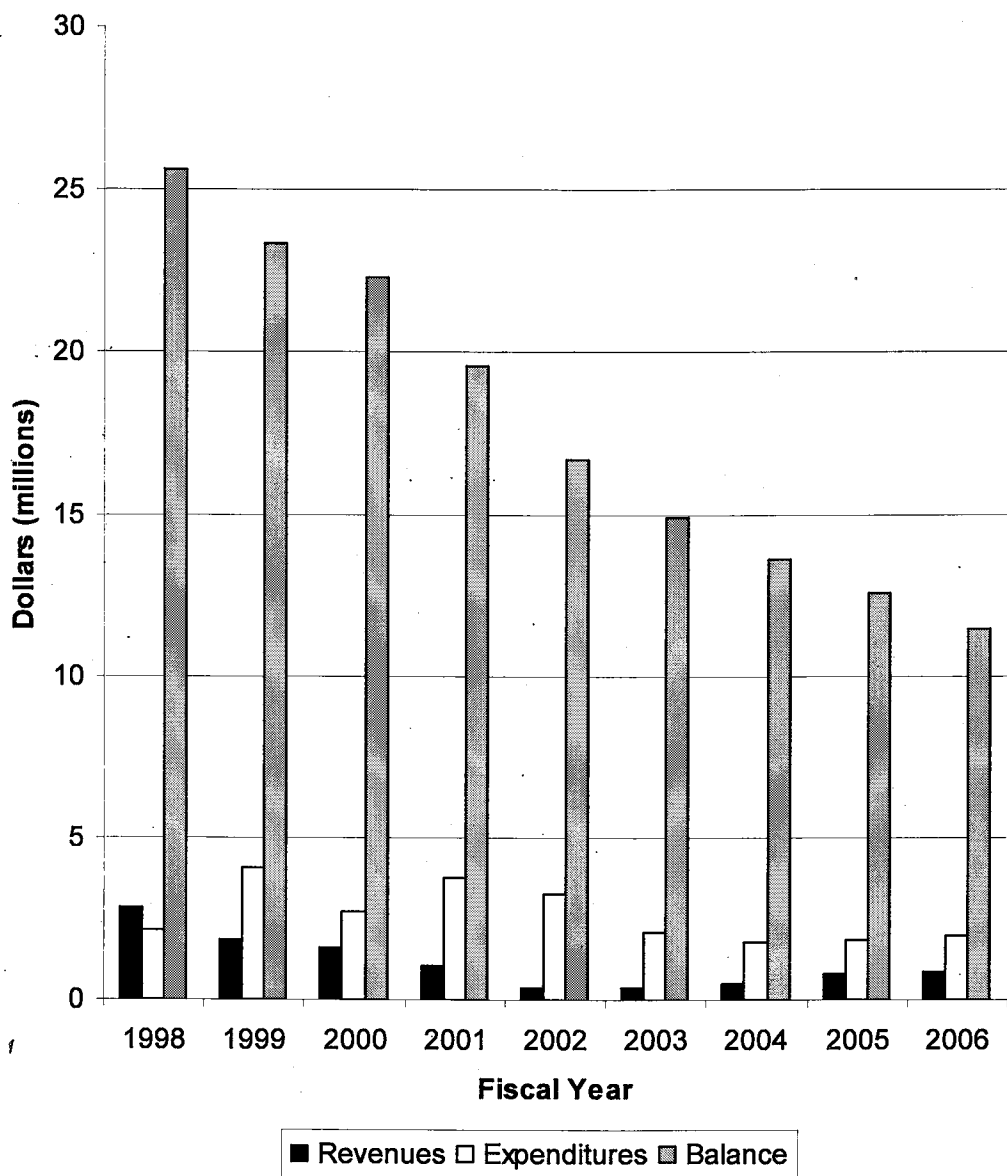
**Obligations (Planned Work, Purchase Orders, RODs, etc.) for**

**Environmental Remediation Contract as of June 30, 2006**

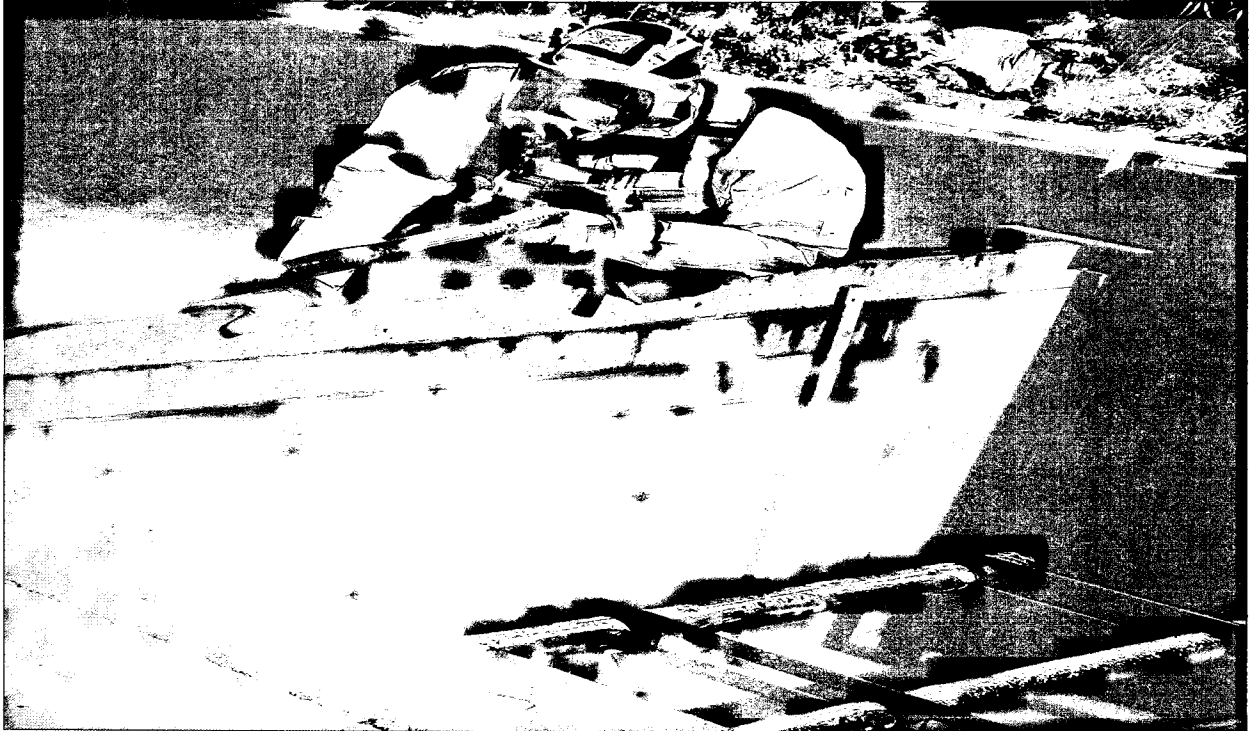
<b>OBLIGATION</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
Adams (Pete) Hasell	Cap	\$520,000
COC Cassatt (Kershaw) Poole Property (Cherokee) Southern Ag (Kingstree)	IDW Sampling and Disposal	\$20,000
Columbia Organic Chemical Company Site – (Richland County)	Cap IDW Sampling and Disposal	\$ 1,500,000 \$550,916
Copperhead Road Site	Criminal Investigation / Removal	\$38,500
Hollis Road Site	Groundwater Treatment (est. \$6M minus \$2.97 M in settlement fund) Monitoring Well Sampling	\$ 3,030,000 \$50,000
Philip Services Corp. (PSC)	Phase I Remedial Investigation	\$250,000
South Lake Drive/Old Orangeburg Road Site	Groundwater Treatment (est. \$6M minus \$2.796 M in settlement fund) Monitoring Well Sampling/Pilot Study	\$ 3,204,000 \$150,000
Suffolk Chemical Company Site	Operation and Maintenance of Groundwater Pump and Treat System	\$ 50,000
US Finishing/Cone Mills	Legal Activities to Compel Responsible Parties to Perform Site Work	\$50,000
<b>Total Obligation (6/30/06) ***</b>		<b>\$9,413,416</b>

\*\*\* This figure does not include any additional planned future assessment or cleanup activities that have not yet been assigned to a contractor.

### Hazardous Waste Contingency Fund Uncontrolled Sites Fund (R200)







A remediation system for a tributary adjacent to a Spartanburg site requires periodic maintenance including draining, pressure-washing, and refilling with water



# Summaries of State - Lead Sites

The following summaries describe State-lead sites at which Department personnel oversaw response activities conducted during Fiscal Year 2006 (FY06). Each site's funding came from either Responsible Parties, Non-Responsible Parties, or the Hazardous Waste Contingency Fund. The source of the funding for each site is designated in each site summary.

## 441 MEETING STREET SITE

**Location:** 441 MEETING STREET; in CHARLESTON, SC

**Description:** Property consisting of four parcels which include fairly modern retail shops constructed over an old railroad.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 03-5535-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:** \$221

**Action Taken in FY'06:**

Charleston Midtown submitted a report of assessment results on November 1, 2005. The Department recommended further assessment of the extent of volatile organic compounds in soil and groundwater which are associated with the former dry-cleaning operations. The Department also recommended the development of corrective measures to address lead, arsenic and polycyclic aromatic hydrocarbons in the soil. Charleston Midtown is conducting additional assessment of the volatile organic compounds and plans to further evaluate other identified impacts to soil through a site-specific risk assessment.

## 522 KING STREET PROPERTY

**Location:** 522 KING STREET; in CHARLESTON, SC

**Description:** Site of two-story building housing longtime paint company. Drycleaning constituents, lead and PAHs possible.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 04-5559-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:** \$1,649

**Action Taken in FY'06:**

At the request of the Department, the Non-Responsible Party, 522 King Street, LLC, sampled the soil in order to delineate the horizontal and vertical extent of contamination. The sampling confirmed an area of the parking lot and the building's courtyard had elevated concentrations of arsenic and chromium. In February 2006, the Department requested that 522 King Street, LLC provide a plan to address this area by proposing an engineered cap, removal or other remedy for the soil. The Department also requested that the Non-Responsible Party resample the three permanent groundwater wells. The Department requested that the water levels be checked throughout the course of a day to determine groundwater flow and possible tidal influence. This work was conducted in late FY06, the Department anticipates receipt of the report in FY07.

The Department also contacted the owner of the dry-cleaning business adjacent to the site concerning the tetrachloroethylene detections in the wells. The Department is working with the owner to determine the next step for the groundwater delineation.

**556 KING STREET SITE**

**Location:** 556 KING STREET; in CHARLESTON, SC

**Description:** Commercial building rented to various retailers. Former site of antiques store, tv/electronics store, laundromat, meat shop and restaurant.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 03-5533-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:** \$104

**Action Taken in FY'06:**

See "441 Meeting Street Site" site, PCAS #5535, for response actions performed relating to the NRP VCC.

**A-CHEM CORPORATION**

**Location:** 5205 SOUTH MAIN STREET (U.S. HIGHWAY 29); in COWPENS, SC

**Description:** Facility formerly manufactured dyes and resins for the textile industry and had a permitted wastewater treatment system that discharged to the public sewer.

**Lead**

**Designation:**

Responsible Party funded  
Consent Agreement 93-46-HW (08/30/1993)

**Funds Expended in FY'06:**

\$2,775

**Total Site Expenditures:** \$68,247

**Action Taken in FY'06:**

On March 9, 2006, the Department granted approval for reduction in groundwater monitoring frequency. The facility continues to submit monthly groundwater recovery system reports. Since the recovery system was started, the responsible party estimates that approximately 104.63 kilograms of total volatile organic compounds mass has been removed.

**AA KELLEY OIL CO.**

**Location:** P. O. BOX 346, HWY 15, ROUTE 1; in BISHOPVILLE, SC

**Description:** Aboveground storage tank oil spill caused by winds from Hurricane Hugo.

**Lead**

**Designation:** State funded

**Funds Expended in FY'06:**

\$1,523

**Total Site Expenditures:** \$661,882

**Action Taken in FY'06:**

The Department conducted a site inspection and resampled all wells located on the site property.

### ACM SITE

**This site is also known as:**

SUMMERVILLE INDUSTRIAL ASSOCIATES

**Location:** 217 INDUSTRIAL AVENUE; in SUMMERVILLE, SC

**Description:** Warehouse on approximately one acre next to DonWal site. Volatile Organic Compounds in groundwater at property boundary.

**Lead**

**Designation:**

Voluntary Cleanup Contracts # 00-5342-AS and # 00-5342-AS

**Funds Expended in FY'06:**

**Total Site Expenditures:** \$20,398

**Action Taken in FY'06:**

The November 2005 Groundwater Monitoring Report was submitted in February 2006. The final groundwater monitoring event, as specified in the VCC, should take place in FY07.

### ADAMS (PETE) HASELL SITE

**Location:** 144 SHARON CIRCLE; in COLUMBIA, SC

**Description:** Unpermitted landfill. Assessment showed soil contamination with polycyclic aromatic hydrocarbons and lead. Record of Decision involved excavation of wetland sediment and placement on upland soil then covering with a cap.

**Lead**

**Designation:** State funded

**Funds Expended in FY'06:**

\$422

**Total Site Expenditures:** \$535,232

**Action Taken in FY'06:**

The Personal Representative of the Estate of Adams Hasell completed the real property survey of the area of contamination and recorded deed restrictions which prevent residential use and disturbance of the current cover material.

### ALTMAN PROPERTIES

**Location:** OFF S. LAKE CT; in LEXINGTON, SC

**Description:** Uncontrolled dumping. Parcels have been impacted by a groundwater plume from neighboring facility, Carolina Steel & Wire. Volatile organic compounds in groundwater include tetrachloroethene & trichloroethene.

**Lead**

**Designation:**

Non- Responsible Party funded

Voluntary Cleanup Contract # 05-5620-NRP

**Funds Expended in FY'06:**

\$1,307

**Total Site Expenditures:** \$1,307

**Action Taken in FY'06:**

The Department reviewed a work plan for assessment of the property. Two monitoring wells were installed at a depth consistent with the depth of contamination at the South Lake Drive/Old Orangeburg Road Site. Both wells contained concentrations of VOCs above MCLs. These concentrations were consistent with migration of contamination from the South Lake Site. Several piles of debris were removed and surface soil samples were collected after the removal was complete. All soil samples were below applicable standards.

## AMERICAN DEVELOPMENT CORPORATION (ADCOR)

**Location:** 1930 HANAHAN ROAD; in HANAHAN, SC

**Description:** RP conducted removal action inside the building and removed several hundreds of drums of plant waste. ADCOR, a Non-Responsible Party, performed a soil gas survey and is monitoring the groundwater contamination.

**Lead**

**Designation:**

Responsible Party funded  
Non- Responsible Party funded  
Voluntary Cleanup Contracts # 97-5271-02-RP and # 97-5271-NRP

**Funds Expended in FY'06:** \$664                      **Total Site Expenditures:** \$9,581

**Action Taken in FY'06:**

The Department requested that an additional monitoring well be installed at the property boundary. Groundwater samples were collected from the existing and the new monitoring wells. Two wells were unable to be located in the initial sampling event and were resampled later. Concentrations of benzene in the monitoring wells had decreased to below MCLs in the majority of the monitoring wells. No constituents of concern were detected in the new monitoring well.

## ARKWRIGHT MILL PROPERTY

**Location:** S LIBERTY BTWN RAILROAD ROW & FAIRFOREST; in SPARTANBURG, SC

**Description:** Former textile mill with potential petroleum contamination from USTs, potential other contamination from on-site boiler & C&D landfill.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 03-5519-NRP

**Funds Expended in FY'06:** \$3,956                      **Total Site Expenditures:** \$7,731

**Action Taken in FY'06:**

The Department had a Phase I Environmental Site Assessment performed and the Phase I report identified a coal/ash pile and four additional areas of concern that required assessment. The assessment of the coal/ash pile has been completed. Assessment allowed three of the four areas of concern to be closed. Petroleum contamination was found at the fourth area and is still being assessed. The assessment of the petroleum release from the two USTs by the company store building has been completed and the project closed. Department representatives attended a community partners meeting in August 2005 and conducted a site walkover and status meeting for stakeholders in May 2006.

## ARROW AUTOMOTIVE

**Location:** 801 BEAUMONT AVENUE; in SPARTANBURG, SC

**Description:** Three areas of contamination: hazardous waste storage shed, front gate, and former mineral spirits AST. Chlorinated solvents detected in groundwater.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 04-5426-NRP

**Funds Expended in FY'06:**                                      **Total Site Expenditures:** \$2,365

**Action Taken in FY'06:**

801 Beaumont, the non-responsible party, submitted a revised work plan for assessment in July 2005 and an addendum to the work plan in September 2005. The Department approved the work plan on September 15, 2005. In December 2005, the Department reviewed preliminary soil analytical results and approved a work plan for removal of soil contaminated with chlorinated solvents from a former solvent tank and pipeline. 801 Beaumont submitted a full report of assessment results on February 23, 2006. On March 22, 2006, the Department required

continued groundwater monitoring, restricted future use of the property, closing of floor drains, and air monitoring. 801 Beaumont proposed and the Department approved a plan for air monitoring in April 2006. 801 Beaumont also proposed a groundwater monitoring plan in April 2006, which the Department approved on June 19, 2006, after one revision.

### **ARVIN MERITOR FACILITY**

**This site is also known as:**

LVA MOTION CONTROL

**Location:** 144 TRANQUILS CHURCH ROAD; in MULLINS, SC

**Description:** VOCs & metals in soils. Transfer project from BOW.

**Lead Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # 05-5626-RP

**Funds Expended in FY'06:** \$380                      **Total Site Expenditures:** \$380

**Action Taken in FY'06:**

Arvin Meritor is conducting a Remedial Investigation (RI). The Department has approved the RI work plan and an Interim Action Removal work plan. It is anticipated that the removal activities will be completed in early FY07.

### **ASHLEY PHOSPHATE MINE**

**This site is also known as:**

APPIAN WAY SITE

**Location:** OFF OF DORCHESTER RD/APPIAN WAY; in N. CHARLESTON, SC

**Description:** Tract along Ashley River used for phosphate mining and phosphate fertilizer production. Waste streams associated with former super phosphate fertilizer production.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 05-5445-NRP

**Funds Expended in FY'06:** \$2,937                      **Total Site Expenditures:** \$3,991

**Action Taken in FY'06:**

The Department reviewed the October 5, 2005 Environmental Assessment Report and a November 2005 Source Removal Action Report, which was based on the results of the assessment. Approximately 11,000 tons of soil were removed and disposed of at a permitted landfill. The final cleanup goals were determined based on a risk evaluation. Backfill material was used to fill the excavated area and graded for development. A confirmation surface soil sampling plan will be implemented in FY07. The Department also requested a long-term groundwater monitoring plan be submitted as a result of high levels of arsenic (245 parts per million (ppm)) and lead (1200 ppm) in Monitoring Well- 5 (MW-5). The monitoring plan will be implemented in FY07.

## AUTOMATIC SWITCH COMPANY

**This site is also known as:**

ASCO VALUE

**Location:** 1561 COLUMBIA HIGHWAY N; in AIKEN, SC

**Description:** Electronics manufacturer with groundwater contaminated with chlorinated solvents.

**Lead**

**Designation:**

Responsible Party funded

Voluntary Cleanup Contract # 02-5455-RP

**Funds Expended in FY'06:**

\$632

**Total Site Expenditures:**

\$42,355

**Action Taken in FY'06:**

Activities continued to proceed in accordance with the VCC between Emerson Electric, ASCO Valve, Therm-O-Disc and the Department. Four groundwater monitoring wells were installed on property downgradient and east of the ASCO facility and private wells continued to be sampled on a routine basis. Trace to low levels of chlorinated VOCs were still being detected in samples. Department staff relayed this information to the affected property owners and confirmed that groundwater is not used as a drinking water source at the residences. A technical meeting between Emerson and the Department was held to discuss the findings from the additional groundwater investigation and the RI submittal. After review and comments, this submittal and its addendum were approved in early 2006.

## AVM OF SC

**This site is also known as:**

LVA MOTION CONTROL; and ARVIN MERITOR

**Location:** US HWY 76 EAST; in MARION, SC

**Description:** Drums of potassium chloride and zinc plating sludge were stored in drums on-site. The materials are still on-site.

**Lead**

**Designation:**

Responsible Party funded

Voluntary Cleanup Contract # 05-5626-RP

**Funds Expended in FY'06:**

\$973

**Total Site Expenditures:**

\$973

**Action Taken in FY'06:**

A Voluntary Cleanup Contract was signed in FY06. An Interim Remedial Action Work Plan was approved, to be implemented in early FY07. A Remedial Investigation Work Plan was submitted at the end of FY06.

### AVX - AMERICAN GEAR & PINION CO.

**Location:** HWY 501; in CONWAY, SC

**Description:** An electronic components manufacturing facility has two unlined lagoons with metal plating waste and is located adjacent to the Intracoastal Waterway. Contamination is attributed to the former operator, American Gear & Pinion Company.

**Lead Designation:**

Responsible Party funded

Consent Agreement 86-51-SW (9/29/1986) & Administrative Order 97-36-SW (10/23/1997)

**Funds Expended in FY'06:** \$1,042                      **Total Site Expenditures:** \$35,190

**Action Taken in FY'06:**

A Groundwater and Surface Water Investigation Work Plan was approved in July 2005 and implemented to address Volatile Organic Compound (VOC) contamination above Maximum Contaminant Levels (MCLs) beyond property boundaries. Results of the most recent investigation suggest a possible off-site source of VOC contamination. The plume has not been adequately defined and more investigative work will need to take place to fill in the data gaps from the previous investigation. Because of some discoloration of soil, a trench was excavated across a potential source area; however, no potential source was located. The Department is currently waiting for results from the most recent sampling event before making any decisions on the next steps to be taken. Extraction Well-5 (EW-5) has been brought on-line to address part of the more concentrated portions of the plume. The cone of influence exerted by EW-5 on the area in its proximity is expected to be determined in FY07. The Department agreed to give AVX a year to evaluate the effects of the new extraction well on the plume.

### AVX CORPORATION MYRTLE BEACH

**Location:** 17TH AVE SOUTH; in MYRTLE BEACH, SC

**Description:** AVX acquired the property from the former Myrtle Beach Air Force Base and currently manufactures electronic components. From 1980 until 1996, groundwater contamination was monitored and treated by AVX without the Department's knowledge or approval.

**Lead Designation:**

Responsible Party funded

Consent Order 96-43-HW, DWP (12/19/1996)

**Funds Expended in FY'06:** \$1,923                      **Total Site Expenditures:** \$22,088

**Action Taken in FY'06:**

A Groundwater Monitoring Report was reviewed. Also, an adjacent property owner proposed additional groundwater sampling on their property to determine if groundwater contamination from the AVX site had migrated beyond current boundary wells. A work plan for this proposal is to be submitted in FY07.

### BAKER-I26 SITE

**Location:** 2381 BAKER HOSPITAL BLVD.; in NORTH CHARLESTON, SC

**Description:** Property located adjacent to Swift Agri-Chem.

**Lead Designation:**

Non- Responsible Party funded

Voluntary Cleanup Contract # 05-5635-NRP

**Funds Expended in FY'06:** \$914                      **Total Site Expenditures:** \$914

**Action Taken in FY'06:**

Ashley II, LLC submitted a work plan for environmental assessment under the voluntary cleanup contract on January 23, 2006. The Department approved the work plan with two minor modifications on March 2, 2006. Field work was completed in April 2006. A report of assessment results is expected in July 2006.



## BARNWELL TOWN DUMP

**Location:** ON CO RD. 607 .5 MI E OF INT CO RD 70; in BARNWELL, SC

**Description:** The Town of Barnwell operated this dump from 1955 - 1972. Lanolin sludge containing perchloroethene from wool mill dry-cleaning operation and trichloroethene found in open dump. Approximately 100 drums found. Site adjacent to Salkehatchie River.

**Lead**

**Designation:**

Responsible Party funded  
Consent Agreement 00-13-HW (06/09/2000)

**Funds Expended in FY'06:** \$2,009                      **Total Site Expenditures:** \$31,964

**Action Taken in FY'06:**

The Department is in the process of evaluating the feasibility study and selecting the preferred alternative. A proposed plan for remedial action should be completed and placed on public notice in FY07.

## BEST GOLF CARTS/DUMP/WOOD PRESERVATION

**Location:** HWY 701 IN HOMEWOOD 2 MILES N. OF CONWAY; in CONWAY, SC

**Description:** Former wood treating operation with copper, chromium and arsenic contamination.

**Lead**

**Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # 01-5103-RP  
  
Consent Agreement 95-17-HW (08/02/1995)

**Funds Expended in FY'06:**    **Total Site Expenditures:** \$22,261

**Action Taken in FY'06:**

Builders First Source, a responsible party, performed groundwater sampling as part of its long-term groundwater monitoring plan. Builders First Source continues to have one monitoring well consistently yield arsenic concentrations above Maximum Contaminant Levels.

## BLACKBERRY VALLEY LANDFILL

**Location:** GROCE RD.1.5 MI.FROM INT. S-199 & S-132; in GREENVILLE, SC

**Description:** A Greenville County permitted landfill that accepted domestic and industrial waste.

**Lead**

**Designation:** State funded

Responsible Party funded  
Administrative Consent Order 92-08-HW & Consent Agreement 02-21-HW (10/04/2002) & 11 Cost Recovery Settlement Agmts (03/06/1992)

**Funds Expended in FY'06:** \$8,914                      **Total Site Expenditures:** \$177,595

**Action Taken in FY'06:**

The 2005 Annual Groundwater Monitoring Report was satisfactorily submitted in March 2006. The Soil Vapor Extraction (SUE) System continues to operate and appears to be successfully maintaining and remediating contaminant levels in groundwater.

The Department published in the SC State Register notice of its intent to settle with nine potentially responsible parties, provided notice to all identified potentially responsible parties, and provided 30 days in which to comment on the nine settlement agreements. The Department did not receive any public comments and thereby executed cost recovery settlements with the nine parties. The Department has one remaining potentially responsible party to whom a settlement has not yet been reached. The Department has successfully exceeded 100% recovery of its past costs when combined with settlement buyout premiums for future cleanup. The County of Greenville is continuing to perform cleanup activities under its Consent Agreement 02-21-HW.

### BLUFFTON LANDFILL

**Location:** SC HWY 46; in BLUFFTON, SC

**Description:** Old landfill currently used as shooting range. Elevated lead in soil & groundwater. Chromium & lead detected above MCL in groundwater. Targeted brownfields program.

**Lead**

**Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # 03-5397-RP

**Funds Expended in FY'06:** \$178                      **Total Site Expenditures:** \$689

**Action Taken in FY'06:**

The Town of Bluffton completed the assessment of the firing range berm used by the Bluffton police force, disposed of the berm soil at a non-hazardous waste landfill, and sent the fired bullets for recycling in early 2006. The Department will perform additional assessment to evaluate any release to soil and groundwater associated with the berm or landfill and will complete a Site Specific Assessment in FY07.

### BRANDT SITE

**Location:** 1990 & 2000 PITTSBURGH AVENUE; in CHARLESTON, SC

**Description:** The 6-acre area is located on Pittsburgh Avenue adjacent to the Macalloy site. The property was leased to scrap metal companies and used for the storage and sale of scrap steel for approximately 45 years until facility closure in 2004.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 04-5576-NRP

**Funds Expended in FY'06:**                                      **Total Site Expenditures:** \$738

**Action Taken in FY'06:**

On August 31, 2005, Ashley II, LLC submitted a report of assessment results, which identified levels of lead and PCBs in soil above levels acceptable for industrial use. The Department asked Ashley II to propose a corrective action plan to address identified impacts to soil and groundwater quality. Ashley II proposed a Corrective Action Plan to remove soil in identified hot spots and place a cap over the property to limit exposure to soil. The Corrective Action Plan was approved by the Department on November 18, 2005. The Department also approved plans to replace monitoring wells to continue groundwater monitoring on the property. Ashley II submitted a Corrective Action Completion Report dated June 2, 2006, which is still under review.

### BTC PARKING LOT SITE

**Location:** BAROODY STREET; in FLORENCE, SC

**Description:** Former location of Florence Steam Laundry (Site not covered by Drycleaning Restoration Trust Fund). Samples from monitoring wells indicate chlorinated solvents, petroleum hydrocarbons and metals.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 04-5514-NRP

**Funds Expended in FY'06:**                                      **Total Site Expenditures:** \$1,222

**Action Taken in FY'06:**

See "City of Florence Parking Lot" site, PCAS #5562, for response actions performed relating to the NRP VCC.

## **BUSH'S RECYCLING, INC.**

**Location:** 102 W. SUMTER STREET; in FLORENCE, SC

**Description:** Former scrap yard & metal recycling facility. Waste oils, PAHs, heavy metals likely in soil and groundwater from large amounts of scrap metal stored on ground at facility.

**Lead  
Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 04-5563-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:** \$185

**Action Taken in FY'06:**

The Department applied for a Targeted Brownfields Assessment grant from EPA to perform an additional phase of site investigation. The objective of this investigation was to collect an unbiased number of soil samples, delineate "hot spots" identified in previous assessments, and install and sample permanent groundwater monitoring wells. The Revised Project Information Package dated May 9, 2006, was submitted and proposed X-Ray Fluorescence and laboratory analysis on soil samples for metals, mercury, PAHs, and PCBs and Pesticides and the installation of eight shallow and two deep groundwater monitoring wells with groundwater samples being collected and analyzed for metals, mercury, VOCs, and SVOCs. A draft Work Plan dated June 21, 2006, was received and is expected to be finalized and implemented in FY07.

## **CALHOUN STREET PROPERTY**

**Location:** 33 CALHOUN ST. @ INTERSEC. OF WASHINGTON; in CHARLESTON, SC

**Description:** Former scrap metal and condensing facility with other prior industrial uses likely. Site currently used as a parking lot.

**Lead  
Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 03-5504-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:** \$2,465

**Action Taken in FY'06:**

Private Properties, a non-responsible party, submitted a Corrective Action Plan Final Report describing soil removal activities in August 2005. The Department reviewed the report and, as land use restrictions will be required for future use of the property, provided Private Properties a Restrictive Covenant for signature on October 7, 2005.

## **CAMDEN HORSE TRAINING CENTER**

**Location:** 1130 CHESTNUT STREET; in CAMDEN, SC

**Description:** Possible petroleum constituents.

**Lead  
Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 05-5611-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:** \$682

**Action Taken in FY'06:**

VCC 05-5633-NRP was executed on January 19, 2006, with ARE Holdings, LLC and Appalachian Engineered Floors, Inc. The Limited Phase II Assessment was revised on May 8, 2006, and the Department concluded that additional investigation of the former UST area east of the building and investigation of soil/groundwater in the vicinity of the northern fence area was necessary due to the presence of barium and/or chromium in concentrations that exceed their respective soil screening levels. A Workplan to address these areas and those identified in the VCC should be submitted in FY07. The proposed reuse of this property is to provide corporate offices, showroom, warehousing and research and development for solid wood and laminated wood flooring products.

## CARDINAL CHEMICAL CO

**Location:** 0.1 MI E OF INT OF SHOP RD & S. BELTLINE; in COLUMBIA, SC

**Description:** Operating facility became unable to discharge to Publicly-Owned Treatment Works and exhausted onsite capacity for storage of processed waste and storm water.

**Lead**

**Designation:** State funded

Non- Responsible Party funded

Voluntary Cleanup Contract # 07-4740-NRP

**Funds Expended in FY'06:** \$2,713                      **Total Site Expenditures:** \$206,450

**Action Taken in FY'06:**

The Department staff periodically visited the site to verify security was maintained. Discussions also continued with an interested party for the potential purchase and redevelopment of the property as well as payment of a portion of the Department's past response costs.

## CAROLINA GRAVURE

**This site is also known as:**

LITTON INDUSTRIES, INC

**Location:** 1 MI ON COMMERCIAL DR. FRM INT OF SC 6; in LEXINGTON, SC

**Description:** A rotogravure printing facility from 1969-1990. The rotogravure process included the use of solvents and metal-based inks. From 1997-2001, the site was leased to Michelin for use as a tire warehouse.

**Lead**

**Designation:**

Responsible Party funded

Voluntary Cleanup Contract # 05-4707-RP

**Funds Expended in FY'06:** \$19                      **Total Site Expenditures:** \$784

**Action Taken in FY'06:**

In September 2005, a Phase II Environmental Site Assessment was submitted with results from the August 2005 sampling event. Samples from three borings, three existing wells, and three soil samples were collected and analyzed. Cadmium, chromium, and lead were detected above EPA Maximum Contaminant Levels in groundwater. Chromium was detected in soil above EPA Region IX Preliminary Remediation Goals (PRGs) (Industrial & Residential). Lead was detected in soil above EPA Region IX PRGs (Industrial). A Phase I Environmental Assessment was submitted in October 2005. Margolias-Century Place, LLC entered into a voluntary cleanup contract with the Department to assess the nature and extent of the contamination. An Environmental Assessment Work Plan was submitted on January 6, 2006. On May 8, 2006, the Department requested revisions to the Environmental Assessment Work Plan seeking additional sampling locations. The Department updated its property ownership records regarding the site.

**CAROLINA STEEL DRUM CORP.**

**Location:** PORTER RD @ I-77; in ROCK HILL, SC

**Description:** Site was used for drum recycling.

**Lead**

**Designation:** State funded

Responsible Party funded

Administrative Consent Agreement 90-48-SW; Amended (09/29/1990) (06/25/1990)

**Funds Expended in FY'06:** \$114

**Total Site Expenditures:** \$576,399

**Action Taken in FY'06:**

The Department and the United States Environmental Protection Agency (EPA) reached settlement agreements with numerous de minimis potentially responsible parties. Certain settling parties had not submitted their settlement payments to the Department timely. After forwarding requests for payment, all but one party provided the necessary funds in FY06. The Department anticipates that it may pursue remaining principal PRPs for additional assessment and past costs reimbursement in FY07.

**CAROLINA WOOD PRESERVING, INC.**

**This site is also known as:**

KELLWOOD TIMBER PRODUCTS; and APAC-GEORGIA

**Location:** CO. RD. 413 ABOUT 3/4 MILE FROM US 17; in HARDEEVILLE, SC

**Description:** A closed wood-preserving facility that has soils contaminated with copper, chromium, and arsenic. Currently, the site is operated as an asphalt plant.

**Lead**

**Designation:**

Non- Responsible Party funded

Voluntary Cleanup Contract # 97-4921-NRP

**Funds Expended in FY'06:** \$276

**Total Site Expenditures:** \$9,508

**Action Taken in FY'06:**

The Department researched the corporate history of various parties in order to identify Potential Responsible Parties.

**CARRIGGS SEAFOOD**

**Location:** 2118 HERIOT ST.; in CHARLESTON, SC

**Description:** Site of former icehouse and wholesale seafood distributor. May have contamination associated with nearby fertilizer manufacturing company.

**Lead**

**Designation:**

Non- Responsible Party funded

Voluntary Cleanup Contract # 04-5564-NRP

**Funds Expended in FY'06:** \$104

**Total Site Expenditures:** \$1,388

**Action Taken in FY'06:**

Surface and subsurface soils were field screened for metals with the highest reading being sent off for analysis. Only chromium exceeded PRGs in the surface soils. Two temporary groundwater wells were placed along the property boundary. Groundwater samples contained elevated arsenic and lead above the MCLs. The Department reviewed and approved the Temporary Well Installation/Assessment Work Plan. The final report of the assessment workplan is expected in FY07.

## CHEMURGY PRODUCTS PLANT

**Location:** 101 CONGAREE RD(AKA WOODS LAKE ROAD); in GREENVILLE, SC

**Description:** Groundwater contamination resulting from disposal of waste containing coal tar residue. Soil contamination has been removed, and the groundwater plume appears to have migrated across Piper Lane. One interim remedial pumping well in place.

**Lead**

**Designation:**

Responsible Party funded  
Administrative Consent Agreement 89-32-SW (09/29/1989)

**Funds Expended in FY'06:** \$1,146                      **Total Site Expenditures:** \$25,400

**Action Taken in FY'06:**

The Groundwater Sampling and Remediation Pilot Study Baseline Report was reviewed and approved in November 2005. A six-month Groundwater Monitoring, Remediation Pilot Study Update was reviewed in May 2006. A Groundwater Monitoring and Remediation Pilot Study Report are due in FY07.

## CITY OF FLORENCE PARKING LOT PROPERTY

**Location:** NEAR BAROODY & DARGAN STREETS; in FLORENCE, SC

**Description:** Parking lot used by Florence BTC. Most likely the groundwater is contaminated with chlorinated solvents, petroleum constituents, and lead from nearby properties.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 04-5562-NRP

**Funds Expended in FY'06:**                                      **Total Site Expenditures:** \$875

**Action Taken in FY'06:**

The Department approved a work plan for additional soil assessment on August 17, 2005. The Department reviewed the report of assessment results on October 11, 2005, and agreed that no further assessment activities or remediation was needed provided that Florence Parking Lot, LLC agreed to land use restrictions to maintain an impermeable cover over the property and continued groundwater monitoring for volatile organic compounds present in groundwater beneath the property. The Department approved a groundwater monitoring plan on November 18, 2005, and sent a restrictive covenant for the property owner's signature on March 23, 2006. The Department expects the property owner will file the restrictive covenant with the County Registrar in FY07. At that time, the Department will issue a Certificate of Completion.

## CLEARWATER FINISHING SITE

**Location:** CLEARWATER ROAD CORNER SR-126, US 1; in CLEARWATER, SC

**Description:** This Site is a former textile facility encompassing more than 80 acres. Following an EPA removal of primary source material, a private group agreed to remediate soils and groundwater and entered a Voluntary Cleanup Contract.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 98-5210-NRP

**Funds Expended in FY'06:**                                      **Total Site Expenditures:** \$23,094

**Action Taken in FY'06:**

The Department collected additional samples in the vicinity of the site to confirm the extent of chromium contamination in sediment and surface water. Samples were collected in the diversion ditch, Horse Creek, and in the newly discovered impoundments adjacent to the Clearwater Site. Soil samples were collected for PCBs in areas where PCB remediation was reported as completed. Concentrations of PCBs above levels of concern were detected in these areas.

## CLINTON MILLS-PLANTS 1 AND 2

**Location:** 600 ACADEMY STREET; in CLINTON, SC

**Description:** Textile plant used 1,1,1-trichloroethane for a cleaning solvent and approximately 1531 gallons of waste 1,1,1-trichloroethane were used around railroad tracks and fence for weed control.

**Lead**

**Designation:**

Responsible Party funded  
Voluntary Cleanup Contracts # 05-5327-RP and # 02-5327-RP

**Funds Expended in FY'06:** \$37                      **Total Site Expenditures:** \$3,633

**Action Taken in FY'06:**

A Responsible Party contract was signed on February 14, 2006, and the Work Plan is expected to be implemented in FY07.

## COASTAL LUMBER CO. - CARMICHAEL TRACT

**Location:** 800 HULL ROAD; in MARION, SC

**Description:** Disposal site for Coastal Lumber Marion Sawmill. Demolition and CCA-treated wood were disposed. Arsenic and chromium was detected in soil and groundwater.

**Lead**

**Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # 04-5539-RP

**Funds Expended in FY'06:**                      **Total Site Expenditures:** \$452

**Action Taken in FY'06:**

The Department received a response addressing the Department's comments on the Site Assessment plan. The plan was approved on February 16, 2006. Site Assessment activities began in May 2006. The results are expected in FY07.

## COASTAL LUMBER CO. - MARION SAWMILL SITE

**Location:** SC HWY 41 ALT. & EAST ST.; in MARION, SC

**Description:** Former pine sawmill with CCA wood treatment operation. Possible arsenic and chromium in soil & groundwater.

**Lead**

**Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # 04-5538-RP

**Funds Expended in FY'06:**                      **Total Site Expenditures:** \$1,206

**Action Taken in FY'06:**

The Department received a response addressing the Department's comments on the Site Assessment plan. The plan was approved on February 16, 2006. Site Assessment activities began in May 2006. The results are expected in FY07.

## COLUMBIA ORGANIC CHEMICALS INC

**Location:** 1 BLK FRM INT OF TRUE ST & DRAKE AVE; in COLUMBIA, SC

**Description:** A closed specialty chemical manufacturer whose processes led to soil and groundwater contamination. Delineation of groundwater contamination is ongoing, while the remedy for addressing soil contamination, a protective cap, is currently being designed.

**Lead**

**Designation:** State funded

Responsible Party funded

Consent Agreement 91-10-SW, Incomplete (02/27/1991)

**Funds Expended in FY'06:**

\$12,250

**Total Site Expenditures:** \$3,003,121

**Action Taken in FY'06:**

More than 600 drums containing nonhazardous purge water and drill cuttings from monitoring well installations were removed from the site during FY06. Drums containing soils were disposed at the Richland County Landfill, while liquids and sludges were solidified at Vopak Logistics Services in Mauldin, before disposal at the Union County Landfill. An additional 74 drums were managed as hazardous waste and disposed at a permitted Clean Harbors facility. These drums contained purge water, drill cuttings, and site soil, that were contaminated with low levels of dioxin. As the fence along the site's perimeter was being repaired, the Department removed a structure roofed with asbestos tiles. These tiles were managed appropriately and also disposed at the Richland County landfill.

During the drum removal, residents were kept informed of the Department's activity. On two occasions, the Department provided information to the public during the community's neighborhood association meetings.

Following the drum removal, the monitoring wells were sampled. During this activity, the Department became aware that several wells had been damaged and/or destroyed since the last sampling event. The Department will determine if these wells need to be reinstalled or relocated to better monitor the groundwater plume. Further, the Department updated its information on the potentially responsible parties.

## COLUMBIA ORGANICS CHEMICAL COMPANY

**Location:** 1424 MT. ZION RD; in CASSATT, SC

**Description:** A specialty-chemical manufacturing company located in a former elementary school.

**Lead**

**Designation:** State funded

**Funds Expended in FY'06:**

\$2,002

**Total Site Expenditures:** \$877,760

**Action Taken in FY'06:**

On April 28, 2006, the Department approved the Final Focused Feasibility Study Report dated December 2005. Removal of approximately 45 drums used in previous sampling events, most of which were empty, is expected to be completed in FY07.



## **COLUMBIA SUPPLY COMPANY**

**Location:** 823 GERVAIS STREET; in COLUMBIA, SC

**Description:** Site of former manufactured gas plant with buried coal tar. Corrective action plan being negotiated with BOW.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 05-5540-NRP

**Funds Expended in FY'06:** \$2,016                      **Total Site Expenditures:** \$10,007

**Action Taken in FY'06:**

Commercial Reality Ventures entered into a voluntary cleanup contract on August 11, 2005. The Department approved a removal action and solidification of material in the two gas holders. The larger gas holder and the contaminated soil around it were removed and the smaller one that was partially beneath an adjacent building was left in place. Approximately 2000 tons of soil were removed from the large gas holder.

A Phoster's™ Injection system was set up to treat residual soil and groundwater contamination. The Department reviewed monthly progress and sampling reports. The Phoster's reagent appears to have decreased the groundwater concentrations around the perimeter of the plume, however, the areas of the highest contamination have shown few significant changes. Additional response actions are being considered to address the remaining contamination.

## **CONE MILLS CORP/UNION BLEACHERY PLANT**

**Location:** 3335 OLD BUNCOMBE RD.; in GREENVILLE, SC

**Description:** Former textile dyeing and finishing plant with hexavalent chromium, PCBs, and other metals in groundwater, sediment, surface water, and soil.

**Lead**

**Designation:** State funded

Non- Responsible Party funded  
Voluntary Cleanup Contract # 06-4755-NRP

**Funds Expended in FY'06:** \$239,302                      **Total Site Expenditures:** \$416,085

**Action Taken in FY'06:**

The Department continued moving forward with its complaint in federal court seeking recovery of the Department's past response costs and a declaratory judgment for future work. During FY06, program staff assisted the Department's Legal Office in the discovery phase of the lawsuit by: responding to, and drafting of, discovery requests, and participating in various depositions. The Department also participated in mediation conferences.

The Department and the PRPs have reached tentative settlements that include provisions for repayment of a portion of the Department's past costs and performance of additional assessment and cleanup activities. It is expected that these settlements will be approved by the court in FY07.

**CONSOLIDATED SYSTEMS, INC.**

**Location:** 650 ROSEWOOD DRIVE; in COLUMBIA, SC

**Description:** A metal fabrication manufacturing facility.

**Lead**

**Designation:**

Responsible Party funded

Non- Responsible Party funded

Voluntary Cleanup Contracts # 06-5671-NRP and # 06-5671-RP

**Funds Expended in FY'06:**

**Total Site Expenditures:**

**Action Taken in FY'06:**

An Information and Certification requesting a NRP-VCC was received on June 19, 2006, for this metal fabrication and processing facility. A meeting was held May 8, 2006, and the Department agreed to enter a NRP-VCC for that portion of the property that lies on top of the former unpermitted City of Columbia landfill along with a RP-VCC for the remaining portion of land consisting of the main manufacturing building.

**COPPERHEAD ROAD SITE**

**Location:** 4005 BLOCK OF COPPERHEAD RD OFF HWY 701; in CONWAY, SC

**Description:** Illegal disposal of drums of acetone and polyester resins into the swamp. Drums floated onto adjacent Waccamaw Wildlife Refuge. Criminal investigation with removal conducted on May 25-26, 2006 by contractor.

**Lead**

**Designation:**

**Funds Expended in FY'06:**

\$27,748

**Total Site Expenditures:**

\$27,748

**Action Taken in FY'06:**

The Department located twenty 55-gallon metal drums found within an approximate seven-acre area of the Waccamaw River Swamp in the Waccamaw National Wildlife Refuge. The Department analyzed the drums and two contained hazardous waste, while the others contained acetone and polyester resin residue, and all drums were comingled with swamp water. The drums were overpacked and properly disposed.

**CORE SOUND REALTY, INC. SITE**

**Location:** DISCHER STREET/1797 KING ST. EXT.; in CHARLESTON, SC

**Description:** Former cotton oil company with waste paints and two unregistered petroleum UST.

**Lead**

**Designation:**

Non- Responsible Party funded

Voluntary Cleanup Contract # 03-5515-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:**

\$2,220

**Action Taken in FY'06:**

To address the Department's comments regarding a June 7, 2005 work plan for assessment, Ashley II, LLC submitted a revised work plan that was approved by the Department on August 22, 2005. The report of assessment results was submitted on January 20, 2006, and on March 21, 2006, the Department recommended that Ashley II propose plans to address identified soil contamination and continue to assess groundwater quality. Ashley II submitted a Corrective Action Plan and a plan for additional site characterization in June 2006.

## CREATEX MANUFACTURING CORP

**This site is also known as:**

MILLIKEN RESEARCH CENTER; and ROGER MILLIKEN CENTER SITE

**Location:** INT OF SC 9 & IRON ORE RD; in SPARTANBURG, SC

**Description:** Two unpermitted disposal areas at the Milliken plant contain drums, industrial waste and construction debris. Volatile Organic Compounds were found in soil and groundwater. Based on Remedial Investigation results, removal was the chosen remedy.

**Lead**

**Designation:**

Responsible Party funded

Consent Agreement 96-22-HW, Amended 05/07/97 (05/28/1996)

**Funds Expended in FY'06:** \$650                      **Total Site Expenditures:** \$22,616

**Action Taken in FY'06:**

Milliken installed two additional monitoring wells in Area B and sampling results showed elevated concentrations of VOCs slightly above the MCLs in these new wells indicating that the contamination plume has continued to migrate. The official report is expected in FY07. The Department reviewed the revised Focused Feasibility Study for groundwater, however, the extent of contamination must be further defined before a final remedy is selected.

## DALE OWEN SITE

**Location:** 250 WENTZKY ROAD; in ANDERSON, SC

**Description:** Dow Badische Plant (now owned by BASF Corporation) disposed of plant waste at this residential property without a permit. High concentrations of trichloroethene are in the groundwater and soil. Had entered into VCC as RP cleanup but was terminated.

**Lead**

**Designation:**

Responsible Party funded

Voluntary Cleanup Contract # 98-5220-RP

01-21-HW (06/26/2001)

**Funds Expended in FY'06:** \$4,734                      **Total Site Expenditures:** \$206,749

**Action Taken in FY'06:**

The Department reviewed the Groundwater Remediation Work Plan and approved it in February 2006. BASF began preparation for the Hydrogen Release Compound (HRC) injection in March 2006. The initial round of injection was completed and six additional wells were added to the existing monitoring network to help determine the effectiveness of the injection. The Department should receive a groundwater monitoring report in FY07 to begin to evaluate the effectiveness of the initial injection.

### DARLINGTON COUNTY PRISON FARM

**Location:** 200 CAMP ROAD; in DARLINGTON, SC

**Description:** Former wood treatment operation where wood was dipped into a creosote pit. A prison is currently located on the site.

**Lead**

**Designation:**

Responsible Party funded  
Amendment 95-43-SW (07/10/1995), Administrative Consent Agreement 92-43-SW (08/05/1992)

**Funds Expended in FY'06:**

**Total Site Expenditures:** \$28,366

**Action Taken in FY'06:**

The December 2005 water sampling report was received in February 2006. The Department is awaiting the report for June 1, 2006 sampling event. The sampling schedule will be up for review at the time this report is submitted as agreed by the parties on March 25, 2005 correspondence. The responsible party is currently completing its required twice a year for three years' sampling regimen.

### DAVIS COIN LAUNDRY SITE

**Location:** 116 E. CHURCH STREET; in COWPENS, SC

**Description:** Former commercial coin laundry facility. Building now demolished (vacant lot). TCE, PCE, 1,2-dichloroethane, MTBE, benzene, naphthalene are present in groundwater.

**Lead**

**Designation:**

Responsible Party funded  
Consent Agreement 03-02-HW (02/25/2003)

**Funds Expended in FY'06:**

\$1,142

**Total Site Expenditures:**

\$6,142

**Action Taken in FY'06:**

On January 5, 2006, the Department received from the Responsible Party a request for approval to install two geoprobe borings. The Department agreed to the installation and collection of groundwater samples from the two proposed geoprobe locations. Since chlorinated solvent contamination is a known contaminant, the Department suggested that in addition to sampling for BTEX, naphthalene, and MTBE, the groundwater samples should be analyzed for volatile organic compounds and semi-volatile organic compounds. The Responsible Party has indicated its desire to apply for qualification for funding under the Dry Cleaning Fund and has not installed the two proposed geoprobe locations.

### DUKE POWER - SPARTANBURG MGP SITE

**Location:** 684 NORTH PINE STREET; in SPARTANBURG, SC

**Description:** Possible tar, hydrogen sulfide, waste sludge, phenol, oil contamination. Former manufactured gas plant (MGP); currently a natural gas facility.

**Lead**

**Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # 01-5406-RP

**Funds Expended in FY'06:**

\$943

**Total Site Expenditures:**

\$29,472

**Action Taken in FY'06:**

The Department reviewed and finalized the Ecological Risk Assessment. Duke submitted the annual groundwater monitoring report. Concentrations showed some slight decrease since the completion of the removal action. Duke requested permission to conduct an In-situ Submerged Oxygen Curtain (ISOC) pilot study to enhance the groundwater cleanup. The Department reviewed the proposal and approved the plan.

## EAST MAIN STREET PROPERTY - SPARTANBURG

**Location:** 324-342 EAST MAIN STREET; in SPARTANBURG, SC

**Description:** Commercial/retail adjoining buildings facing East Main Street and one facing Hall Street. Former Fairfax Cleaners located here. Site has VOCs in groundwater and soil.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 05-5591-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:** \$741

**Action Taken in FY'06:**

Tetrachloroethene (PCE) was detected in subsurface soil adjacent to the building where a former dry cleaner operated. These soils were excavated and confirmatory samples collected. However, a potential source of groundwater contamination remained in subsurface soil at a depth of 11 feet below land surface. In response to this residual contamination, a sodium permanganate solution was injected into the subsurface in the "hot spot" areas. A multi-story office building and garage parking have been erected on this property.

## EFP PRODUCTS

**This site is also known as:**

SPX CORPORATION

**Location:** 6247 CAMPBELL ROAD; in YORK, SC

**Description:** Site of metal plating facility where bedrock groundwater is impacted by chromium.

**Lead Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # letter of agreement

Consent Agreement 95-32-HW (11/30/1995)

**Funds Expended in FY'06:**

\$3,251

**Total Site Expenditures:**

\$47,331

**Action Taken in FY'06:**

Comments have been generated concerning the revised Feasibility Study (FS) with recommendations for a pilot-scale study to be conducted for the in-situ remedial alternative. The chromium contamination will be addressed after results from the pilot study are included in the remedial alternative section of the FS.

## EVODE-TANNER INDUSTRIES

**Location:** FURMAN HALL COURT, PO BOX 1967; in GREENVILLE, SC

**Description:** Former latex paint manufacturing facility at which spent solvents were disposed of in a trench.

**Lead Designation:**

Responsible Party funded  
Consent Agreement 94-49-HW (11/21/1994)

**Funds Expended in FY'06:**

\$587

**Total Site Expenditures:**

\$33,108

**Action Taken in FY'06:**

In accordance with the Consent Agreement, quarterly reports detailing monitoring events were submitted to the Department. The expanded interim corrective action system continued to operate and to date has recovered and treated more than thirty-four million gallons of impacted groundwater. Reductions of five orders of magnitude in the concentration of constituents in the groundwater samples collected from the well located in the former source area have occurred as a result of the operation of the extraction system. In general, the system has been effective in reducing constituent concentrations in the groundwater more than 350° downgradient from the former source area.

The overall downward trend in VOC concentrations in the well farthest from the former source area indicates the VOC plume is receding.

### **FIBER INDUSTRIES, INC**

**This site is also known as:**  
HOECHST CELANESE

**Location:** INT I-85 & WOODRUFF RD.; in GREENVILLE, SC

**Description:** Site of former textile manufacturing company that utilized on-site landfill. Landfill contained textile manufacturing waste, asbestos, construction materials, oily wastes, solvents, acid, and a waste impoundment.

**Lead Designation:**  
Responsible Party funded  
Voluntary Cleanup Contract # 00-4782-RP

Administrative Consent Order 90-09-SW (01/23/1990)

**Funds Expended in FY'06:** \$3,337                      **Total Site Expenditures:** \$44,879

**Action Taken in FY'06:**

As part of the groundwater remediation activities, molasses injections to reduce dechlorination continued as well as the operation of recovery wells at the property boundary. The Department provided comments on a groundwater model. Additional wells were installed and sampled in the area where the model predicted for the extraction system was not capturing groundwater. Semi-annual status reports were submitted and reviewed by the Department. Several groundwater monitoring wells were abandoned to allow for future development of the area.

### **FLORENCE MGP SITE**

**This site is also known as:**  
SCE&G FLORENCE MGP

**Location:** 553 NORTH IRBY STREET; in FLORENCE, SC

**Description:** Site of former Manufactured Gas Plant at which soils are contaminated with tar and fuel; groundwater is contaminated with Volatile Organic Compounds and Semi-Volatile Organic Compounds.

**Lead Designation:**  
Responsible Party funded  
Voluntary Cleanup Contract # 00-5396-RP

**Funds Expended in FY'06:** \$3,873                      **Total Site Expenditures:** \$13,687

**Action Taken in FY'06:**

The Department received the draft Feasibility Study in July 2005, and the Department provided comments to SCE&G on September 13, 2005. The Feasibility Study was approved on February 2, 2006. The Department plans to hold a public meeting early in FY07 to discuss various cleanup alternatives.

## FORMER COOPER HAND TOOLS SITE

**Location:** 815 STATE ROAD; in CHERAW, SC

**Description:** Company designed and manufactured small hand tools, electroplating, tinning, & wastewater treatment. VOCs in soil and groundwater, chlorinated solvents.

**Lead**

**Designation:**

Responsible Party funded

Non- Responsible Party funded

Voluntary Cleanup Contracts # 04-5582-RP and # 05-5582-NRP and # 07-5582-NRP

**Funds Expended in FY'06:**

\$1,959

**Total Site Expenditures:**

\$3,232

**Action Taken in FY'06:**

Cooper entered into a voluntary cleanup contract with the Department on June 15, 2005, to conduct a Remedial Investigation/Feasibility Study and a Removal Action. Cooper identified an Underground Storage Tank (UST) and submitted a Removal Action Work Plan to address it. The Department approved the Removal Action Work Plan and the tank was removed along with 803 tons of contaminated soil. Twelve thousand gallons of water were removed from the excavation and treated prior to disposal. Confirmation samples were collected from the excavation.

The Department reviewed the Remedial Investigation Report and requested additional soil and groundwater sampling. A response from Cooper is due early in FY07.

## FORMER K-MART SHOPPING CENTER

**Location:** 115 GARNER ROAD; in SPARTANBURG, SC

**Description:** Former retail shopping center with a former waste oil UST and former municipal landfill onsite. Benzo(a)pyrene, 1,1, dichloroethene, trichloroethene & vinyl chloride concentrations exceeded EPA MCLs. Referred by BOW.

**Lead**

**Designation:** 3/20/07 - indoor air monitoring

Non- Responsible Party funded

Voluntary Cleanup Contracts # 06-5623-NRP and # 06-5623-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:**

**Action Taken in FY'06:**

During April 2006, JSI Spartanburg, LLC conducted an environmental assessment that included a passive soil gas survey within the footprint of the proposed grocery store building and an active soil gas survey for combustible methane gases across the former landfill. This investigation also included groundwater screening by use of direct push technology and the placement of three permanent groundwater monitoring wells. A VCC was executed on May 12, 2006, with JSI Spartanburg, LLC. Due to the underlying landfill, a Declaration of Covenants and Restrictions against residential, agricultural, recreational, child/elderly day care facilities, and schools was executed on June 16, 2006.

### FRP POLES, INC.

**Location:** 25 WOOD STREET; in ESTILL, SC

**Description:** Industrial plant that manufactures fiberglass lighting. Has elevated levels of VOCs in soil and groundwater, some metals in soils.

**Lead**

**Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # 04-5574-RP

**Funds Expended in FY'06:** \$729                      **Total Site Expenditures:** \$2,356

**Action Taken in FY'06:**

The Department reviewed three groundwater monitoring reports and the removal action summary report which indicated acceptable levels of contaminants after the remedial action had occurred. FRP removed approximately 484 tons of contaminated soil and dewatered approximately 16,900 gallons of water from the excavation. Upon completion of the removal action, a groundwater sampling event was conducted. All the wells were below the MCLs. FRP conducted two additional groundwater monitoring events after completion of the removal action and all the wells were below MCLs for all groundwater sampling events. A certificate of completion was issued on January 5, 2006.

### GAYNOR PROPERTY

**Location:** 7991 HIGHWAY 162; in YONGES ISLAND, SC

**Description:** Rural residential area with buried waste material from a meth lab.

**Lead**

**Designation:**

**Funds Expended in FY'06:** \$23,890                      **Total Site Expenditures:** \$23,890

**Action Taken in FY'06:**

The Department responded to a report that the operators of a residential methamphetamine lab had disposed of process waste in several burial areas behind the residence. Test trenches were excavated from the alleged disposal areas and samples were collected. Small amounts of waste from the operations were found along with other wastes in a garage and workshop. These wastes were characterized and disposed of by the Department. The Department reviewed the Report of Assessment activities.

### GEORGIA-PACIFIC CORP. - HARDWOOD SAWMILL

**Location:** HOTEL STREET; in ALCOLU, SC

**Description:** Sawmill used lindane & PCP as preservative. Dip tank used on site. PCP, lindane, petroleum, VOCs, SVOCs, chlorides, nitrates, phosphate & sulfate contamination from mill operations.

**Lead**

**Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # 03-5456-RP

**Funds Expended in FY'06:** \$3,573                      **Total Site Expenditures:** \$7,185

**Action Taken in FY'06:**

In early 2006, the Department developed a community mailing list, forwarded a fact sheet to the public, and provided a notice in the local newspaper regarding the upcoming removal of Pentachlorophenol contaminated soils. In August 2005, the soils were removed. On April 5, 2006, groundwater sampling results from monitoring wells located in the area of the excavation indicated that the soil removal activity was successful, with results below detection limits, and the monitoring wells were abandoned.



## GRACE, W.R. & CO, AG CHEM GROUP

**This site is also known as:**  
AG CHEM

**Location:** INT OF HARMAN & ELGIN ST; in CHARLESTON, SC

**Description:** Superphosphate fertilizer manufacturing facility that also blended various pesticides for agricultural use. Soil, groundwater, surface water, and sediment contaminated with pesticides, metals, and Volatile Organic Compounds.

**Lead Designation:**  
Responsible Party funded  
Administrative Consent Agreement 89-34-SW, S (11/13/1989)

**Funds Expended in FY'06:** \$7,177                      **Total Site Expenditures:** \$83,189

**Action Taken in FY'06:**

W.R. Grace continued to perform cleanup activities required by the Department's Record of Decision (ROD). Contaminated soil was removed from the uplands area. Design and bid documents were approved for the removal activities proposed for wetlands areas. Temporary groundwater monitoring wells were installed in off-site locations to track the extent of groundwater contamination and to assist in the evaluation of the potential for groundwater discharge to surface water. Additional surface water samples were collected as well. An underground tank was identified, and samples in the vicinity of the tank were collected to evaluate releases. Implementation of the ROD will continue in FY07.

## GRANITEVILLE CO/VAUCLUSE LANDFILL

**Location:** .5 MI CO RD 105 ON SC 191 ADJ SMITH BRAN; in VAUCLUSE, SC

**Description:** 20-acre open dump operated from 1950 to 1973 by Graniteville Company. At least 300 drums eroded out of retaining bank.

**Lead Designation:**  
Responsible Party funded  
Consent Agreement 97-32-HW (12/18/1997)

**Funds Expended in FY'06:** \$808                      **Total Site Expenditures:** \$35,600

**Action Taken in FY'06:**

A local developer initiated negotiations with the property owner, Avondale Mills, to purchase the site as well as surrounding property for residential redevelopment. Since the future land use of the area may be altered by redevelopment, the Department delayed comment on the previously submitted Remedial Alternatives Analysis Report, which is a form of a Feasibility Study, with regard to site-specific risk assessment scenarios. Once the plan for redevelopment has been established, the Report will be finalized.

## GRAYCO PROPERTY

**Location:** 1905, 1907, 1909 & 1911 BOUNDARY STREET; in BEAUFORT, SC

**Description:** Former auto parts store with machine/motor rebuilding shop and Tucker Drycleaners. Hazardous substances have been detected in soil and groundwater.

**Lead Designation:**

Responsible Party funded  
Non- Responsible Party funded  
Voluntary Cleanup Contracts # 03-5506-RP and # 03-5506-NRP and # 03-5506-NRP

**Funds Expended in FY'06:** **Total Site Expenditures:** \$3,118

**Action Taken in FY'06:**

The Department approved a work plan for offsite assessment of groundwater quality on July 8, 2005. Richard L. Gray/Beaufort Muffler and Auto Supply submitted a report of assessment results in March 2006. The Department determined that additional assessment of the vertical extent of groundwater contamination and groundwater monitoring will be required.

## HALL ONE SITE

**Location:** 1593 OCEANIC STREET; in CHARLESTON, SC

**Description:** Site is mainly undeveloped marsh land.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 03-5516-NRP

**Funds Expended in FY'06:** **Total Site Expenditures:** \$672

**Action Taken in FY'06:**

Ashley II, LLC submitted a report of assessment results on October 12, 2005. On December 6, 2005, the Department recommended limited additional groundwater monitoring. The Department also proposed measures to limit access to marsh sediments that exhibit elevated levels of lead and arsenic. Ashley II is performing additional groundwater assessment and has proposed to further evaluate impacts to marsh sediments, an area of the property which will not be developed, through a site-specific risk assessment.

## HALL TWO SITE

**Location:** AUSTIN AVENUE; in CHARLESTON, SC

**Description:** Site is 14.16 acres of highland used for light industrial, storage of cargo trucks; and 12.56 acres of undeveloped marshland.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 03-5517-NRP

**Funds Expended in FY'06:** **Total Site Expenditures:** \$519

**Action Taken in FY'06:**

To address, the Department's comments regarding a proposed work plan, Ashley II, LLC submitted a revised work plan that the Department approved on August 12, 2005. The Department sent comments on the assessment report on April 18, 2006. The Department recommended that Ashley II propose plans for removal of contaminated soil in one area of the property along with further assessment of sediment and groundwater quality. Ashley II submitted a corrective action plan for soil removal and plans for additional assessment of sediment and groundwater quality in June 2006. Further evaluation of the impacts to soil quality is planned through a site-specific risk assessment.

## HALSEY-CANNON BOATYARD & MARINE RAILWAY

**Location:** 130 WANDO CREEK LANE; in CHARLESTON, SC

**Description:** Boat construction & marine repair facility with contamination in gw of benzo(a)pyrene, benzene, naphthalene, and soil with BTEX constituents, benzo(a)pyrene and naphthalene.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 05-5499-NRP

<b>Funds Expended in FY'06:</b>	\$1,820	<b>Total Site Expenditures:</b>	\$1,875
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**Action Taken in FY'06:**

VCC 05-5499-NRP was executed on September 2, 2005, with Cainhoy Holdings for this approximately seven-acre site located on the banks of the Wando River. This boatyard is being redeveloped to meet the Clean Marina Program. According to data generated during the assessment, groundwater at this facility has not been impacted; however, trace amounts of volatile organic compounds were detected in soil in the marine rail area while lead was detected in surface soil at concentrations greater than its industrial screening value. Therefore, additional remedial action is warranted.

## HEALTH-TEX, INC.

**Location:** 276 FOSTER STREET; in COWPENS, SC

**Description:** Former textile manufacturing facility. Soil and groundwater contaminated with perchloroethene. Onsite disposal area. The site was an EPA Brownfield Pilot Project and a Targeted Brownfield Assessment site.

**Lead**

**Designation:**

Responsible Party funded  
Non- Responsible Party funded  
Voluntary Cleanup Contract # 99-5356-NRP

Consent Agreement 03-24-HW (08/19/2003)

<b>Funds Expended in FY'06:</b>	\$6,055	<b>Total Site Expenditures:</b>	\$159,762
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**Action Taken in FY'06:**

The Department received notice that Collins & Aikman, a responsible party under a Consent Agreement with the Department, filed a voluntary petition for reorganization under Chapter 11 bankruptcy. Collins & Aikman submitted a final Remedial Investigation which was approved by the Department in February 2006. However, Collins & Aikman has failed to complete its remaining obligations under the Consent Agreement. The Department investigated additional potentially responsible parties at the Site.

### HITACHI ELECTRONIC DEVICES

**Location:** 575 MAULDIN ROAD; in GREENVILLE, SC

**Description:** Site of former television picture tube manufacturing facility. Soil and groundwater contaminated with trichloroethene due to spills and leaks.

**Lead**

**Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # 97-5303-RP

**Funds Expended in FY'06:** \$6,368                      **Total Site Expenditures:** \$28,467

**Action Taken in FY'06:**

The Department approved an interim action work plan to remediate source area soils by in-situ thermal desorption. The Department issued a NPDES permit, which will allow discharge of treated condensate water from the treatment system as well as treated water from an extraction system at the down-gradient property boundary. Simple barometric devices were installed on several off-site wells to allow passive venting of volatile organic compounds (VOCs). Groundwater both on and off-site is monitored quarterly.

### HOLLINGSWORTH HANGAR AT DONALDSON CTR

**Location:** 522 PERIMETER ROAD; in GREENVILLE, SC

**Description:** Airport hangar located within Donaldson Air Force Center. Site has groundwater contamination from off-site migration.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 05-5631-NRP

**Funds Expended in FY'06:** \$1,825                      **Total Site Expenditures:** \$1,825

**Action Taken in FY'06:**

An investigation was conducted to determine whether an on-site oil/water separator may be contributing to groundwater contamination identified on the property. An off-site source is suspected.

### HOLLIS ROAD CONTAMINATION

**This site is also known as:**

SAWYER WELL SITE

**Location:** 206 HOLLIS ROAD; in LEXINGTON, SC

**Description:** Plume(s) of Volatile Organic Compounds causing groundwater contamination east of the I-20/Highway 6 interchange and south of the Town of Lexington. At least 42 business and private drinking water wells have trichloroethene contamination.

**Lead**

**Designation:** State funded

**Funds Expended in FY'06:** \$19,495                      **Total Site Expenditures:** \$2,907,947

**Action Taken in FY'06:**

The Department requested that Hoover Building Systems collect surface soil samples around the former Carl Sherwood shop area. The results of this sampling did not identify the soil around the Sherwood shop area as a source of groundwater contamination.

The Department is currently evaluating alternatives to treat the groundwater. A pilot study is expected to be started at either the site or at the adjacent site, the South Lake Drive/Old Orangeburg Road Site, in the next fiscal year.

## HORTON SALES DEVELOPMENT

**Location:** 744 QUARRY ROAD; in LIBERTY, SC

**Description:** Former site of polymer reclaimer operations/currently used as chemical tote storage area/abandoned. 23,000 totes - some leaking unknown liquids. Samples revealed low pH levels.

**Lead**

**Designation:**

Responsible Party funded  
Consent Agreement 04-25-HW (05/18/2004)

**Funds Expended in FY'06:** \$2,851                      **Total Site Expenditures:** \$33,883

**Action Taken in FY'06:**

The Department approved the responsible party's Removal Action Report submitted in accordance with the Consent Agreement, as the report adequately described the activities required to properly remove all containers and stored wastes.

## HORTON SALES DEVELOPMENT CORP.

**Location:** 1870 PIEDMONT HWY; in PIEDMONT, SC

**Description:** Site is being used as a chemical tote facility. Site appears unstable & contaminated (surficial staining) from potentially hazardous material.

**Lead**

**Designation:**

Responsible Party funded  
Consent Order 98-10-HW (Incomplete) (02/27/1998)

**Funds Expended in FY'06:** \$10,787                      **Total Site Expenditures:** \$36,911

**Action Taken in FY'06:**

After reports from Western Carolina Regional Sewer Authority that the creek below the site was "milky white," three surface water samples were collected from Mill Creek. Results indicated the presence of VOCs, one SVOC, one pesticide and numerous metals. In order to characterize the environmental conditions, samples were again collected a month later from Mill Creek. Areas of stained soil on the property and the contents of onsite containers were also sampled. Results once again indicated the presence of VOCs, SVOCs, pesticides, and metals in the various media.

The Department's Bureau of Water issued Administrative Order 06-056-W dated March 30, 2006, which, among other things, required Horton Sales Development to cease discharging waste into the environment and operations. Horton Sales' appeal of the order was pending at the end of FY06.

### 185 DISTRIBUTION CENTER

**Location:** NW INTERSTATE OF I85 AND SIGBEE RD.; in SPARTANBURG, SC

**Description:** Former textile manufacturing facility. Soil, groundwater, and surface water contaminated with perchloroethene (PCE).

**Lead**

**Designation:** State funded

Voluntary Cleanup Contract # letter of agreement

Civ Action #7:03-0805-26 Consent Decrees (2 CDs on 1/12/05, 1 CD on 3/9/05) ( / / )

**Funds Expended in FY'06:** \$63,424                      **Total Site Expenditures:** \$2,076,077

**Action Taken in FY'06:**

Cedar trees were planted in the vicinity of the treatment area to minimize noise and visual impacts near the site. The Department continued operating the surface water treatment system. Semi-annual operations and maintenance reports were received and reviewed. In a period of twelve months, remedial goals were met in all samples collected to evaluate the performance of the remediation system. The NPDES permit was revised slightly, allowing sampling to occur monthly rather than twice a month.

### INDUSTRIAL DRIVE SITE

**This site is also known as:**

NORTHROP GRUMMAN SITE

**Location:** 341 INDUSTRIAL DRIVE; in LEXINGTON, SC

**Description:** Originally part of the South Lake Drive Site, but determined to be separate contamination. Volatile Organic Compounds detected in soils and groundwater.

**Lead**

**Designation:** State funded

**Funds Expended in FY'06:** \$1,781                      **Total Site Expenditures:** \$55,060

**Action Taken in FY'06:**

A December 2005 Report for Additional Assessment Activities was reviewed and approved. The Department requested a work plan for a Feasibility Study be submitted to the Department in FY07.

### IVAX INDUSTRIES INC.

**Location:** 1880 LANGSTON STREET; in ROCK HILL, SC

**Description:** Abandoned chemical site with shallow groundwater contaminated by chlorinated VOCs.

**Lead**

**Designation:**

Responsible Party funded

Voluntary Cleanup Contract # 02-5416-RP

**Funds Expended in FY'06:** \$1,404                      **Total Site Expenditures:** \$20,343

**Action Taken in FY'06:**

On July 18, 2005, the Department reviewed data from sampling of groundwater at an off-site location. The Department requested the submitting of the RI report and a draft report was submitted on February 9, 2006. After revisions to the RI Report was completed, the RI Report were approved in June 2006. An Addendum to the RI Report will be submitted in FY07.

## JOHN DEERE PLATING SHOP

**This site is also known as:**

FORMER JOHN DEERE

**Location:** 306 SOUTH BUNCOMBE ROAD; in GREER, SC

**Description:** Serious groundwater & offsite contamination, including discharges to surface waters and air discharges into office buildings. EPA did removal of spill on 01/24/99.

**Lead**

**Designation:**

Non- Responsible Party funded

Voluntary Cleanup Contracts # 05-5385-NRP and # 05-5385-NRP and # 06-5385(I)-NRP

**Funds Expended in FY'06:** \$628                      **Total Site Expenditures:** \$1,518

**Action Taken in FY'06:**

Three purchasers have divided this approximately 48-acre property. An investigation of soil and groundwater was conducted across the entire property and a restrictive covenant was imposed across each parcel due to groundwater contamination. A warehouse storage facility with offices and shops has been proposed for the agricultural portion of the property (~25 acres). A soil gas survey was conducted on the smallest of the parcels (1.45 acres) due to the elevated concentration of volatile organic compounds in groundwater. Soil gas did not pose a health risk. Reuse of this parcel is proposed as retail and/or restaurant. An impermeable barrier (40 feet by 60 feet) was placed over the Oil Impacted Area on the main manufacturing portion (~23 acres) of the property where the concentration of trichloroethylene in subsurface soil posed a continual threat to groundwater quality.

## KELLETT PROPERTY

**Location:** 230 E. STANDING SPRINGS ROAD; in SIMPSONVILLE, SC

**Description:** Unpermitted area where approximately 4000 drums of industrial wastes were buried. During a removal action, the drums were unearthed and the contents disposed off-site. Remedial Investigation is ongoing with delineation of groundwater contamination.

**Lead**

**Designation:** State funded

Non- Responsible Party funded

Voluntary Cleanup Contract # 01-5225-NRP

Settlement Agreement (12/02/2002)

**Funds Expended in FY'06:** \$108                      **Total Site Expenditures:** \$4,754,972

**Action Taken in FY'06:**

The Settling Parties continued the required quarterly groundwater and surface water monitoring in accordance with the Settlement Agreement. Data from these sampling events will be incorporated with previously collected data to complete the ongoing Remedial Investigation/Feasibility Study.

**KING & SPRING STREETS SITE**

**Location:** 544 - 562 KING STREET; 23 SPRING STREET; in CHARLESTON, SC

**Description:** Petroleum constituents found in soil; potential for other hazardous contaminants due to previous uses of property.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 03-5490-NRP

**Funds Expended in FY'06:** **Total Site Expenditures:** \$1,454

**Action Taken in FY'06:**

See "441 Meeting Street Site" site, PCAS #5535, for response actions performed relating to the NRP VCC.

**KINGS LABORATORY, INC.**

**Location:** 1/4 MI E OF I-77, N OF BLYTHEWOOD RD.; in BLYTHEWOOD, SC

**Description:** Former specialty chemical company with groundwater contamination.

**Lead Designation:**

Responsible Party funded  
Administrative Consent Order 90-18-SW, W (03/26/1990)

**Funds Expended in FY'06:** \$3,707 **Total Site Expenditures:** \$34,141

**Action Taken in FY'06:**

An August 2005 Groundwater Monitoring Report was reviewed. The Department requested an additional well off-site and a replacement well for MW-13D and further requested that remediation technologies other than ORC be considered. An agreement was reached and a Work Plan for Groundwater Remediation was approved. These activities should be carried out in FY07.

**LAKWOOD TREATING**

**Location:** 13824 C.R. KOON HWY; in NEWBERRY, SC

**Description:** Abandoned chromated copper arsenate (CCA) wood treating facility. Heavy rains caused secondary containment to become full with rain water and CCA solution. Approx. 30,000 gallons.

**Lead Designation:** State funded

**Funds Expended in FY'06:** \$6,649 **Total Site Expenditures:** \$312,521

**Action Taken in FY'06:**

The Department sent demand letters for reimbursement of past costs to viable potentially responsible parties.



**LEXINGTON DRYCLEANING ON INDUSTRIAL DR.**

**Location:** 485 INDUSTRIAL DRIVE; in LEXINGTON, SC

**Description:** Possible groundwater migration from off-site source.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 06-5646-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:**

**Action Taken in FY'06:**

The Department negotiated a Voluntary Cleanup Contract with Lexington DryCleaning to assess their property. A work plan is due in the first quarter of next year.

**LINEAR PRECISION PRODUCTS**

**Location:** 1298 THUNDERBOLT DRIVE; in WALTERBORO, SC

**Description:** Transfer project from Bureau of Water.

**Lead Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # 05-5627-RP

**Funds Expended in FY'06:**

\$9,681

**Total Site Expenditures:**

\$9,681

**Action Taken in FY'06:**

A Soil Remedial Action Work Plan was submitted in December 2005 and has been implemented. A Voluntary Cleanup Contract (VCC) was executed in January 2006. The Responsible Party's consultant has been submitting progress reports and expects to deliver the Remedial Action Report in FY07.

**MARTIN MARIETTA MATERIALS, INC. SITE**

**Location:** VIRGINIA AVENUE; in NORTH CHARLESTON, SC

**Description:** Asbestos disposal areas, drum storage areas, "boneyard" area of junked machinery/equipment. Site originally part of larger tract owned by Raybestos-Manhattan, then by RM Engineered Products, Inc.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 03-5480-NRP

**Funds Expended in FY'06:**

\$106

**Total Site Expenditures:**

\$1,060

**Action Taken in FY'06:**

Beach Manufacturing submitted a report of soil and groundwater assessment results on February 15, 2006. On May 25, 2006, the Department identified areas of soil and groundwater contamination requiring additional assessment to identify contaminant extent and appropriate corrective measures prior to redevelopment of the property.

## METAL TRADES SITE

**This site is also known as:**

UNION CARBIDE; and EDISTO PHOSPHATE COMPANY

**Location:** 1905 PITTSBURGH AVENUE; in CHARLESTON, SC

**Description:** Permitted facility for marine cargo terminal and possible metals contamination.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 05-5622-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:**

**Action Taken in FY'06:**

On July 1, 2005, an Information and Certification was submitted for this approximately 18-acre site on Shipyard Creek. This site was formerly operated by Edisto Phosphate Company in the late nineteenth century. VCC 05-5622-NRP was executed on January 19, 2006, with Shipyard Creek Holdings, LLC. Approval to collect soil, sediment, surface water and groundwater samples was forwarded on April 13, 2006.

## NORFOLK SOUTHERN GRANITEVILLE DERAILMENT

**Location:** MARSHALL STREET; in GRANITEVILLE, SC

**Description:** Freight train collision caused release of 11,500 gallons of chlorine gas resulting in 9 deaths, 529 injuries and evacuation of 5,500 people.

**Lead Designation:**

**Funds Expended in FY'06:**

\$31,063

**Total Site Expenditures:**

\$37,958

**Action Taken in FY'06:**

Numerous surface and subsurface soil samples were collected from the derailment site and surrounding areas. These areas included the mill property, yards in the neighborhood, the local community center, and nearby churches and schools. Results indicated a normal range of chlorides and pH levels in the sampled soils. At a community meeting, residents were informed that chlorine (leaked from the punctured tanker during the derailment) was not affecting soils in the Graniteville area. Air samples collected over a two-week period also indicated no adverse air quality conditions.

## NYTRONICS COMPONENTS GROUPS, INC.

**This site is also known as:**

GENERAL SEMICONDUCTOR, INC; and GENERAL INSTRUMENT

**Location:** 700 ORANGE STREET; in DARLINGTON, SC

**Description:** A former electronics manufacturing facility with soil, sediment, groundwater, and surface water contamination from polychlorinated biphenyls, volatile organic compounds, metals, and pesticides.

**Lead Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # 99-5124-RP

Administrative Consent Order 91-39-SW (06/24/1991)

**Funds Expended in FY'06:**

\$7,427

**Total Site Expenditures:**

\$59,097

**Action Taken in FY'06:**

Environmental Strategies Consulting, a consultant for Vishay General Semiconductor LLC, a responsible party, submitted a Phase I Focused Feasibility Study Report and Recommendations on May 27, 2005. After numerous communications regarding the Report, the Report was approved by the Department on March 3, 2006. The Department received the Phase II Focused Feasibility Study Work Plan on March 31, 2006. The Work Plan was approved and the preliminary Phase II work began in April 2006. Additional Phase II work will continue into FY07.

The Department updated its information regarding the identification of additional potentially responsible parties. Based on a recent transfer of ownership of an identified potentially responsible party, the Department forwarded general notice and request for information upon the presumed successor corporation.

### **OCEANIC STREET SITE**

**Location:** 1599 OCEANIC STREET; in NORTH CHARLESTON, SC

**Description:** Adjacent to former Ashepoo Phosphate/Fertilizer works facility.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 05-5639-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:**

**Action Taken in FY'06:**

The Department entered into a Voluntary Cleanup Contract with Ashley II, LLC for a portion of the former Ashepoo Phosphate site. Ashley II submitted a Work Plan for environmental assessment on March 18, 2006, which is still under review.

### **OLD ORCHARDS MEADOWS**

**This site is also known as:**

HNA HOLDINGS; HOECHST-CELANESE; GROCE LABORATORIES, INC; and BEACO ROAD

**Location:** HOOD ROAD; in GREER, SC

**Description:** Former solvent recovery facility that was purchased by Hoechst, Inc. and used as parking lot. Site contains high levels of vadose zone Volatile Organic Compounds (VOCs) as well as VOC-contaminated groundwater that migrated off-site.

**Lead Designation:**

Responsible Party funded  
Consent Agreement 98-55-HW (10/01/1998)

**Funds Expended in FY'06:**

\$1,511

**Total Site Expenditures:**

\$67,765

**Action Taken in FY'06:**

Monthly injections and performance monitoring are continuing as part of the groundwater treatment remedy. Data indicates that trichloroethylene and tetrachloroethylene are degrading in the majority of wells. However, little to no degradation response is documented at MW-9, BW-9, BW-11, and increasing values of contamination are documented at BW-15.

## OLD SIMPSONVILLE DUMP #2

**Location:** CO. RD. 542 .75 MILES WEST OF RD. 55; in SIMPSONVILLE, SC

**Description:** Former Greenville County landfill. Remedial activities for Old Simpsonville Dump ##1 and 2 are addressed under the same Consent Agreement and site description.

**Lead**

**Designation:** State funded  
Responsible Party funded  
Consent Agreement 95-34-SW (09/25/1995)

**Funds Expended in FY'06:** \$937                      **Total Site Expenditures:** \$850,581

**Action Taken in FY'06:**

A 2005 Annual Groundwater, Surface Water and Methane Monitoring Report was reviewed. The Department requested an evaluation from Regenesis regarding the use of their product HRC to treat groundwater at the Dump #1. Regenesis had previously provided an evaluation of the use of HRC at the Dump #2. A Scope of Work will be prepared in FY07 to conduct a pilot study using HRC at one or both sites.

## ONE HOUR MARTINIZING-ANDERSON

**Location:** 3144 NORTH MAIN STREET; in ANDERSON, SC

**Description:** Site is now a Blimpies Sandwich Shop, but a dry cleaners operated at the site from 1968-1979. Possible migration of PCE contamination.

**Lead**

**Designation:**  
Non- Responsible Party funded  
Voluntary Cleanup Contract # 05-5376-NRP

**Funds Expended in FY'06:** \$823                      **Total Site Expenditures:** \$823

**Action Taken in FY'06:**

VCC 05-5376-NRP was executed on September 2, 2005, with Belvedere Station, LLC for this shopping mall where a dry cleaner had operated. The revised Workplan was approved on November 29, 2005, for collection of soil and groundwater data. After reviewing the April 28, 2006 Progress Report, on May 22, 2006, the Department identified concerns as to whether an unidentified source of TCE is present on the property. A Final Report is expected in FY07.

## PACIFIC GUANO

**This site is also known as:**

AMERISOURCE

**Location:** 1505 KING ST. EXTENSION; in CHARLESTON, SC

**Description:** Former fertilizer company. Soil and groundwater contaminated with lead.

**Lead**

**Designation:**  
Responsible Party funded  
Voluntary Cleanup Contract # 00-5296-RP

**Funds Expended in FY'06:** \$12,055                      **Total Site Expenditures:** \$27,688

**Action Taken in FY'06:**

A Feasibility Study was approved in November 2005. The Department reviewed the final Evaluation of Remedial Alternatives Report and drafted a Proposed Plan. The Department's preferred remedy was to place a cover over the contaminated areas to prevent exposure and infiltration. A community mailing list was developed and notice of a public meeting was forwarded to each and also published in the local newspaper. On January 31, 2006, the Department held a public meeting to discuss the alternatives evaluated and to present the preferred alternative. The majority of the residents in the area expressed a strong opinion that the removal of all contaminated material would be their preferred remedy.

The Department contracted EarthTech to conduct a detailed cost comparison of the removal alternative and the capping alternatives to ensure that the original estimates were accurate. The Department determined that since there is very limited impact to groundwater (only one of the six onsite wells exceed MCLs and only at a concentration roughly twice the MCL), then the primary risk was direct contact exposure to workers at the facility. The Department's selected remedial alternative is to cap the site.

### **PATRIOTS PLAZA**

**Location:** 825-923 HOUSTON NORTHCUTT BOULEVARD; in MT. PLEASANT, SC

**Description:** Possible off-site contamination from USTs and from Dryclean USA.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 06-5655-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:**

**Action Taken in FY'06:**

This property has been impacted by contamination migrating from an offsite source. An investigation of soil and groundwater was conducted during June at the onsite Coastal Carolina Cleaners. No VOCs/SVOCs were detected in soil while only trace amounts of carbon disulfide and acetone were detected in groundwater. A Voluntary Cleanup Contract 06-5655-NRP was executed on June 26, 2006, with Patriots Plaza, Inc., doing business as Houston Northcutt Boulevard.

### **PHILIP SERVICES CORPORATION**

**This site is also known as:**

STABLEX; QUALITY DRUM; ThermalKEM; and INDUSTRIAL CHEMICAL CO.

**Location:** 2324 VERNSDALE ROAD; in ROCK HILL, SC

**Description:** Formerly a RCRA TSD under interim status for solvent reclamation and incineration.

**Lead Designation:** State funded

**Funds Expended in FY'06:** \$971,572                      **Total Site Expenditures:** \$1,746,750

**Action Taken in FY'06:**

The Department reviewed the final design specifications for the groundwater treatment system upgrades. Due to the treatment system being vandalized to the point of causing the pumping system to shutdown, the Department began the upgrades immediately and approximately one month later the system was upgraded and automated. The upgrades included the replacement of the sand filter and carbon canisters. The system was tied into an auto-dialer system so, if the system should encounter problems, it will call the operator for assistance. The upgrades reduced the manpower from two operators at 40 hours a week to one operator 20 to 24 hours a week, and it allows for a more efficient system by reducing the amount of time spent backwashing the system, and preserved the lifespan of the carbon filtration system. The final operation manual for the Groundwater Treatment System was approved and the Quality Assurance Project Plan was reviewed.

The Department responded to various telephone calls from potentially responsible parties. The Department participated in various conferences with working groups consisting of representatives of potentially responsible parties. However, in January 2006, the Department decided to proceed with a state-funded Remedial Investigation to avoid any additional delays and the Department is reimbursed with monies the Department received through the facility's bankruptcy.

The Phase 1 Remedial Investigation Work Plan was approved in May 2006. The Department developed a Fact Sheet for the public that provided information on the contamination, a summary of the cleanup activities performed by the Department, information regarding future cleanup plans, and an announcement of a public meeting and the availability of the Administrative Record at a local library. The Department developed a community mailing list and forwarded the Fact Sheet to, among others, the residents in the area. A public meeting was held on May 25, 2006.

In June 2006, the Department mobilized to begin the Phase 1 Remedial Investigation. This investigation consisted of the collection of surface and subsurface sampling at 52 locations across the site. Soils were screened with colortec and samples collected for chemical analysis. Nine sediment samples were collected onsite and in the two creeks that bound the property, and four groundwater samples were collected from temporary wells. Sampling results will be available in FY07.

### **PHILIPS COMPONENTS FACILITY**

**This site is also known as:**

BC COMPONENTS

**Location:** 6071 ST. ANDREWS ROAD; in COLUMBIA, SC

**Description:** Former manufacturer of aluminum electrolytic capacitors. Historical solvent use has impacted groundwater.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 04-5557-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:** \$116

**Action Taken in FY'06:**

The Department reviewed the Targeted Brownfields Assessment Report which was received in July 2005. This assessment analyzed surface soil, subsurface soil, sediment, and groundwater samples over the entire site. The Targeted Brownfields Assessment Report indicated that further sediment screening was needed in a drainage path on the western side of the site. Additionally, as part of the Voluntary Cleanup Contract, a Human Health Risk Assessment was required. The results of the additional sediment screening along with the Human Health Risk Assessment are expected early FY07.

### **POLO CHAMP, LLC SITE**

**Location:** 2000 MEETING STREET; in CHARLESTON, SC

**Description:** Former furniture painting company.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 06-5648-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:**

**Action Taken in FY'06:**

The Department entered into a Voluntary Cleanup Contract with Ashley II, LLC for the Polo Champ property on February 14, 2006. Historical uses of the property include furniture painting, heating and air conditioning business, and the operators use of an underground storage tank. Ashley II submitted a work plan for environmental assessment in May 2006. The Department approved the work plan on June 2, 2006. It will be implemented in FY07.

### PONTIAC BOMBING RANGE

**Location:** SUMMIT PARKWAY DEVELOPMENT; in COLUMBIA, SC

**Description:** Formerly Utilized Defense Site with possible discovery of chemical agents.

**Lead**

**Designation:** State funded

Civil Action #3:04-2034MBS Order w/USDoD, US Army, & Army Corps (12/07/2005)

**Funds Expended in FY'06:** \$7,051                      **Total Site Expenditures:** \$230,050

**Action Taken in FY'06:**

On May 27, 2006, the Department published notice of its intent to settle with the United States Department of Defense, the United States Army, and the United States Army Corps of Engineers and DHEC received comments on the agreement from three parties during the 30-day comment period. During FY06, the Department responded to the comments, and thereafter petitioned the district court to approve the settlement as it was fair and reasonable and in the best interest of the State of South Carolina. The court agreed and an order was filed approving the settlement agreement on December 7, 2005. The Department recovered \$160,000 of its response costs as to response actions taken at three properties identified as 216, 200, and 107 Stone Drive in the Pinebrook Subdivision of Summit Parkway.

### PROVIDENCE ENVIRONMENTAL INC. (PEI)

**Location:** 312 SHARPE ROAD; in COLUMBIA, SC

**Description:** Environmental consulting service which uses the property as the base of operations for collection & temporary storage of product inventory & nonhazardous wastes.

**Lead**

**Designation:**

**Funds Expended in FY'06:** \$7,428                      **Total Site Expenditures:** \$14,562

**Action Taken in FY'06:**

The transportation and proper offsite disposal of all material and containers was completed. Also, five surface water samples were collected from Crane Creek to determine if the water body had been impacted from the site; and, the sampling results indicated no elevated levels of VOCs, SVOCs, or metals.

### PROVIDENCE ST. PROPERTY/PROVIDENCE HOSP.

**Location:** 1702 PROVIDENCE ST.; in COLUMBIA, SC

**Description:** Wooded lot adjoining a dirt parking lot which joins a paved parking lot and former medical building. Confirmed groundwater contamination from offsite sources.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 04-5571-NRP

**Funds Expended in FY'06:**                                      **Total Site Expenditures:** \$743

**Action Taken in FY'06:**

The Department is reviewing the Remedial Investigation Report dated June 12, 2006.

## QUALITY PRODUCTS

**Location:** 844 S. BUNCOMBE ROAD; in GREER, SC

**Description:** Former specialty chemical manufacturer with hazardous waste drums stored on site, which will need to be properly disposed. Potential soil & groundwater contamination.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 05-5603-NRP

**Funds Expended in FY'06:** \$1,268                      **Total Site Expenditures:** \$2,557

**Action Taken in FY'06:**

The Department reviewed the Comprehensive Site Work Plan in September 2005. In January 2006, a Pre-Cleanup Soil Sampling Plan was submitted prior to the removal of the chemical drums. Initial soil sampling indicated chromium above the screening criteria. The removal plan for on-site chemicals was approved and carried out. A plan to demonstrate the post-removal environmental condition of the site's soil and groundwater is expected in FY07.

## RAILROAD AVENUE SITE

**Location:** RAILROAD AVENUE; in HARTSVILLE, SC

**Description:** Railroad spur and switching yard with possible petroleum constituents from railroad operations.

**Lead Designation:**

Responsible Party funded  
Non- Responsible Party funded  
Voluntary Cleanup Contracts # 02-5496-RP and # 02-5496-NRP

**Funds Expended in FY'06:** \$915                      **Total Site Expenditures:** \$4,953

**Action Taken in FY'06:**

In November 2005, the Department received the Site Investigation Report for work performed during May 2005. The Department requested that additional work be conducted to delineate the horizontal and vertical extent of soil contamination across the property and the resampling of the groundwater monitoring wells. The Department received a Work Plan for this additional work, which was approved in May 2006. These sampling activities will be completed in FY07.

## RENTAL UNIFORM SERVICE SITE

**Location:** 415 KEITH DRIVE; in GREENVILLE, SC

**Description:** Former industrial laundry facility with soil and groundwater contamination with acetone, PCE, toluene, 1,2,4-trimethylbenzene, naphthalene, xylene, and benzene.

**Lead Designation:**

Responsible Party funded  
Non- Responsible Party funded  
Voluntary Cleanup Contracts # 04-5487-RP and # 05-5487-NRP

**Funds Expended in FY'06:**                      **Total Site Expenditures:** \$1,088

**Action Taken in FY'06:**

The Department received the Remedial Investigation Report on sampling activities performed to assess environmental contamination. Volatile Organic compounds were detected in soil, groundwater, and surface water at concentrations that exceed applicable screening criteria. The responsible party's consultant proposed to install groundwater monitoring wells to further evaluate groundwater contaminant concentrations and to establish groundwater flow direction and gradient across the site. The Department received a work plan for this work in late FY06.



**REPUBLIC COTTON MILL, JP STEVENS MILL #3**

**Location:** 34 HAMPTON STREET; in GREAT FALLS, SC

**Description:** Facility was used as a warehouse and contained large quantities of PVC. The PVC burned causing low-pH fire water runoff. Tributaries were discolored and have shown low pH from the fire water runoff.

**Lead Designation:**

**Funds Expended in FY'06:**

**Total Site Expenditures:**

**Action Taken in FY'06:**

On June 7, 2006, a fire was reported at this former cotton mill. The fire, which reportedly began on June 6, created a huge plume of smoke that contained hydrogen chloride vapor. Approximately 1000 residents were evacuated while firefighters from numerous fire departments fought the blaze.

State emergency responders were on scene and requested EPA air monitoring support. Air monitoring was conducted by State responders, EPA, and EPA contractors. Chester County officials hired emergency response crews who used heavy equipment to demolish portions of the building and allow firefighters to gain better access to hot spots. The fire was declared extinguished on June 12, 2006, however, County fire crews responded to multiple flare-ups over the next several days. At the request of Chester County officials, a State Superfund contractor was brought in on June 27 to assist County fire crews with extinguishing two remaining hot spots while State staff performed air monitoring to ensure there were no additional hydrogen chloride releases.

The Department also performed a title search of the real property to help identify potentially responsible parties.

**RIDGE SPRING ASBESTOS SITE**

**Location:** 101 TOWN SQUARE; in RIDGE SPRING, SC

**Description:** 10-13 cubic yards of asbestos-containing tile from a nearby building was improperly removed and buried at this location.

**Lead Designation:**

**Funds Expended in FY'06:**

\$6,687

**Total Site Expenditures:**

\$6,687

**Action Taken in FY'06:**

The State Remediation Section was contacted by the Department's Criminal Investigation Division to investigate an area believed to be the location of an illegal disposal of asbestos containing material. A state contractor was assigned to conduct exploratory excavations in the area where the asbestos containing material was believed to be buried. Approximately 10 cubic yards of asbestos containing material, mostly tile, was excavated and transported off-site for proper disposal.

**RM ENGINEERED PRODUCTS, INC.**

**Location:** 4854 O'HEAR AVENUE; in CHARLESTON, SC

**Description:** Industrial/commercial site with warehouses, office bldgs, & several manufacturing operations with possible asbestos, calcium oleate, perchloroethene, lead dust, rubber cement & red/black dust.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 01-5451-NRP

**Funds Expended in FY'06:**

\$106

**Total Site Expenditures:**

\$6,734

**Action Taken in FY'06:**

Beach Manufacturing submitted a report of soil and groundwater assessment results on February 15, 2006. On May 22, 2006, the Department identified areas of soil and groundwater contamination requiring additional assessment to define contaminant extent and appropriate corrective measures prior to redevelopment of the property.

**RMAX**

**Location:** 1649 BATESVILLE ROAD; in GREENVILLE, SC

**Description:** Facility manufactures foam insulation panels. Groundwater contaminated with trichloroethene.

**Lead Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # 00-5361-RP

**Funds Expended in FY'06:** \$2,112                      **Total Site Expenditures:** \$12,581

**Action Taken in FY'06:**

A Groundwater Assessment Plan for off-site monitoring wells was submitted on September 19, 2005. The Department approved the installation of a monitoring wells, which were installed in November 2005. Samples were collected and analyzed on January 23, 2006. On February 22, 2006, RMax requested a change to the monitoring scheme. On March 2, 2006, the Department agreed to modify the monitoring schedule and an additional sampling event occurred in June 2006.

**ROBERT BOSCH TOOL CORPORATION SITE**

**Location:** 800 WOODSIDE AVENUE; in FOUNTAIN INN, SC

**Description:** Former manufacturer of small tools. Possible metals and VOCs. RP & NRP contracts.

**Lead Designation:**

Responsible Party funded  
Non- Responsible Party funded  
Voluntary Cleanup Contracts # 05-5613-RP and # 05-5613-NRP

**Funds Expended in FY'06:** \$1,351                      **Total Site Expenditures:** \$1,351

**Action Taken in FY'06:**

The Department received the Remedial Investigation/Feasibility Study (RI/FS) Work Plan dated October 28, 2005, which was not approved as written. After addressing the Department's comments, the RI/FS Work Plan will be resubmitted and it is anticipated that it will be received in FY07.

**ROMNEY STREET LANDFILL**

**Location:** NORTH ROMNEY STREET; in CHARLESTON, SC

**Description:** Former solid waste permitted landfill.

**Lead Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 06-5645-NRP

**Funds Expended in FY'06:**                                      **Total Site Expenditures:**

**Action Taken in FY'06:**

The Romney Street Landfill was operated as a solid waste landfill by Charleston County under a lease with The Beach Company (under DHEC Permit No. DWP-079, issued December 22, 1976). The landfill received industrial wastes and shredded municipal waste from the County's Romney Street Solid Waste Reduction Center from approximately 1977 until 1989. Charleston County prepared a closure plan in 1991 and implemented the closure plan in 1994. The landfill was officially closed on December 4, 1995. The closure plan included the installation of a passive methane gas venting and monitoring system for detection of methane leaving the site property from the subsurface. Also, a groundwater monitoring system was installed in conjunction with the adjacent Holston landfill for water quality monitoring.

Prior to 1977, Standard Oil Company operated the site to service terminal facilities in the area. A small portion of the site along Town Creek was used for a wharf, and offices were located on the northeast portion of the site property. A pipeline placed in the 1920's extended from east to west across the property to an adjacent former terminal facility. Dikes were built around the property in approximately 1940, and dredge material from the Cooper River was placed on the Property.

Since the Romney Street Landfill ceased receiving solid waste in 1989, several environmental assessments have been performed. In 1994, Thomas & Hutton prepared a Development Feasibility Study for proposed park facilities at the Romney Street Landfill. On September 26, 1997, General Engineering submitted a report entitled Environmental Site Assessment & Environmental Issues Related to Site Development for the former Romney Street Landfill. A more recent Phase I Environmental Site Assessment was issued on May 26, 2005, by S&ME.

A landfill closure plan was implemented in 1994. Charleston County has been monitoring groundwater and methane during the post-closure period. A review of the methane monitoring in 2004 revealed that methane was being detected at or above the lower explosive limit (LEL) at the northwest property boundary; therefore, Charleston County was required to perform remediation of this problem, and additional methane venting points are being installed pursuant to a plan approved by the Department on September 28, 2005.

The most recent results of groundwater sampling reported in September 2005 did not find any of the sampled parameters above the EPA Maximum Contaminant Levels. Further, the most recent methane monitoring results reported in September 2005 found that methane was exceeding the LEL at two monitoring points, G-04 and G-05. The Department's September 28, 2005 approved plan is being implemented by Charleston County for remediation of methane.

The Ginn Company is purchasing the property and proposes the development to include recreational (including a marina and a golf course), pile-supported, above-grade commercial and multi-family residential structures. The proposed development will take place on site and along the adjacent site, the Holston Landfill property.

The Ginn Company entered into a Non-responsible Party Voluntary Cleanup Contract with the Department on April 7, 2006. The Contract requires a broad scope of work to be completed which includes a Baseline Assessment, Groundwater Monitoring, Soil Gas Study, Methane Gas Study, Foundation Design Plan, Excavation Management Plan, Quality Assurance/Quality Control Plan, and a Risk Evaluation. The Department has received the Work Plan for the Baseline Assessment and work is scheduled early in the next fiscal year.

### **SCE&G FLEET MAINTENANCE SITE**

**Location:** 1409 HUGER STREET; in COLUMBIA, SC

**Description:** Current City bus terminal. Former MGP from 1906-1954. Coal tar and PAH contamination in soil and groundwater. Located in downtown Columbia.

**Lead**

**Designation:**

- Responsible Party funded
- Non- Responsible Party funded
- Voluntary Cleanup Contracts # 02-5295-RP and # 02-5295-NRP

**Funds Expended in FY'06:** \$3,772                      **Total Site Expenditures:** \$7,433

**Action Taken in FY'06:**

The Department reviewed the Remedial Investigation Work Plan on September 1, 2005. SCE&G conducted the additional characterization of several potential source areas during the investigation. Elevated levels of benzene, naphthalene, and PAHs were found in most of the samples collected. An additional round of groundwater monitoring was conducted and the concentrations remained consistent with the previous monitoring events.

SCE&G submitted a work plan on November 1, 2005, to investigate Parcel B, an area outside the original portion of the manufactured gas plant and reportedly not used for the MGP plant process. The Department approved the Work Plan and SCE&G collected samples to characterize potential impacts from the property's previous use as a bus

parking lot. Results are expected in FY07.

### **SCE&G SAVAGE ROAD CREW QUARTERS SITE**

**Location:** 900 SAVAGE ROAD; in CHARLESTON, SC, SC

**Description:** A high-voltage substation with two buried electrical capacitors. Soil and groundwater are impacted by Polychlorinated Biphenyl (PCB) contamination.

**Lead**

**Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # 98-5331-RP

**Funds Expended in FY'06:** \$1,104                      **Total Site Expenditures:** \$7,721

**Action Taken in FY'06:**

The Department approved SCE&G's characterization sampling work plan. The sample results delineated the extent of PCB contamination in surface and subsurface soils. The Department reviewed the Summary of Assessment Activities and the Work Plan for Excavation and Removal of PCB impacted soils. The Department approved the Work Plan and will issue an action memorandum prior to the implementation of the removal actions. Surface and subsurface soils will be removed and sent off-site for disposal.

### **SCE&G SUMTER MGP SITE**

**Location:** 238 HAUSER ST.; in SUMTER, SC

**Description:** Former Manufactured Gas Plant. Soil and groundwater impacted.

**Lead**

**Designation:**

Responsible Party funded  
Voluntary Cleanup Contract # 98-5343-RP

**Funds Expended in FY'06:** \$1,525                      **Total Site Expenditures:** \$39,881

**Action Taken in FY'06:**

The Department reviewed the Phase 2 Interim Removal Action Report. The removal action required the abandonment of two monitoring wells. Upon completion of the removal two new monitoring wells were installed. The Department reviewed the groundwater monitoring report which indicated concentrations of contaminants were generally decreasing since the removal action had been completed. SCE&G began work on a groundwater Feasibility Study that should be completed next fiscal year.

### **SNELLING DRUM SITE**

**Location:** SEVEN PINES ROAD; in SNELLING, SC

**Description:** An abandon 55-gallon drum

**Lead**

**Designation:**

**Funds Expended in FY'06:** \$120                      **Total Site Expenditures:** \$120

**Action Taken in FY'06:**

The Department received information regarding an abandoned drum. The Department forwarded a request for information to the chemical manufacturer regarding the drum's labeling. The manufacturer advised that the drum's labeling was used in the 1970s and no additional information was available in identifying who may have disposed of the drum at the site.

### SODETAL USA

**Location:** 110 MILACRON DRIVE; in FOUNTAIN INN, SC

**Description:** Former manufacturing facility for machine equipment and for draw wire for use in automotive industry. Unknown hazardous waste.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 05-5633-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:**

**Action Taken in FY'06:**

The VCC 05-5633-NRP was executed on January 19, 2006, with ARE Holdings, LLC, and Appalachian Engineered Floors, Inc. On May 8, 2006, the Limited Phase II Assessment was revised and the Department concluded that additional investigation of the former UST area east of the building and investigation of soil/groundwater in the vicinity of the northern fence area was necessary due to the presence of barium and/or chromium in concentrations that exceed their respective soil screening levels. A Workplan to address these areas and those identified in the VCC should be submitted in FY07. The proposed reuse of this property is to provide corporate offices, showroom, warehousing and research and development for solid wood and laminated wood flooring products.

### SOUTH LAKE DRIVE/OLD ORANGEBURG ROAD SIT

**Location:** S. LAKE DRIVE & OLD ORANGEBURG ROADS; in LEXINGTON, SC

**Description:** One to one-and-one-half mile area of commercial and private property where groundwater is contaminated with Volatile Organic Compounds.

**Lead**

**Designation:** State funded

Voluntary Cleanup Contract # letter of agreement

**Funds Expended in FY'06:**

\$31,698

**Total Site Expenditures:** \$1,688,844

**Action Taken in FY'06:**

The Department received a notice from a settling party seeking to buyout the Reopener to the July 17, 2003 Consent Decree. After extensive discussions, the Department agreed to the buyout. The Department is currently evaluating alternatives to treat the groundwater. A pilot study is expected to be started at either the site or at the adjacent site, the Hollis Road Site, in the next fiscal year.

### SOUTHERN AGRICULTURAL PLANT SITE

**Location:** 111 DENNIS STREET; in KINGSTREE, SC

**Description:** Former pesticide and herbicide manufacturing company with elevated levels of pesticides in soil.

**Lead**

**Designation:** State funded

**Funds Expended in FY'06:**

\$394

**Total Site Expenditures:** \$16,779

**Action Taken in FY'06:**

In late FY06, the Department submitted a Scope of Work to a contractor to remove 32 drums which were left at the site during a previous sampling event. The drums contained either soil cuttings, purge water, or were empty and needed to be disposed of properly. This action will take place in early FY07.

**SPARTAN INDUSTRIES, INC.**

**Location:** HIGHWAY 176; in PACOLET, SC

**Description:** Chrome plating facility with groundwater contamination.

**Lead**

**Designation:**

**Funds Expended in FY'06:**

**Total Site Expenditures:** \$3,626

**Action Taken in FY'06:**

The semi-annual Ground Water Quality Report was received on December 15, 2005. The site is in Operation and Maintenance phase.

**STARMET CMI**

**Location:** 365 METAL DR., HWY 80; in BARNWELL, SC

**Description:** 8,000 metric tons of uranium waste on site. 20,000 drums.

**Lead**

**Designation:** State funded

**Funds Expended in FY'06:**

\$88,295

**Total Site Expenditures:**

\$615,383

**Action Taken in FY'06:**

As EPA was concluding the removal action, the Department began the process of transitioning daily site operations from EPA's contractor to the State's contractor. In addition to these daily site activities, the Department began evaluating the activities and costs required for the site's decontamination and decommissioning. A Data Gap Analysis Technical Memorandum outlined the areas where additional assessment was needed in order to help accurately determine the total costs of decontamination. The Department will conduct this additional assessment in FY07. The State Remediation Section updated its investigation of potentially responsible parties and met with the Radioactive Waste Section regarding cleanup activities.

**STEVENS, J.P. & CO CHEM PLANT NO 1**

**This site is also known as:**

AIR PRODUCTS AND CHEMICALS, INC.; INTEX CHEMICAL, INC; and PIEDMONT SITE

**Location:** OLD PELZER ROAD; in PIEDMONT, SC

**Description:** Site of former chemical manufacturing plant.

**Lead**

**Designation:**

Responsible Party funded

Administrative Consent Order 91-13-SW (03/14/1991)

**Funds Expended in FY'06:**

\$4,184

**Total Site Expenditures:**

\$108,453

**Action Taken in FY'06:**

A Remedial Action Work Plan to address off-site groundwater contamination was reviewed. The recovery well installation was approved by the Department. A NPDES application was provided for the discharge of treated water from the proposed recovery system. Additional soil and groundwater sampling occurred at onsite identified source areas. Operation of existing recovery wells and groundwater monitoring continued.

## STOLLER CHEMICAL CO. - CHARLESTON

**Location:** U.S. HIGHWAY 17 7477 SAVANNAH HIWAY; in CHARLESTON, SC

**Description:** Former fertilizer manufacturing company. Sediment, soil, and groundwater impacted. Operable Unit One = Plant Site and groundwater; Operable Unit Two = Caw Caw Swamp.

**Lead**

**Designation:** State funded  
Responsible Party funded  
Consent Agreement 97-29-HW (03/01/1997)

**Funds Expended in FY'06:** \$180,826                      **Total Site Expenditures:** \$4,654,043

**Action Taken in FY'06:**

The Department revised the existing groundwater feasibility study to update the costs of the pump and treat system and added the sulfate reducing bacteria alternative. The pilot study showed reductions in the metals concentrations within the wall to below MCLs and showed improving concentrations in the downgradient wells.

The Department reviewed the annual groundwater treatment system monitoring report. The groundwater treatment system continues to improve the groundwater quality. The Land Vault Annual Report and the Annual Wetlands Monitoring reports were reviewed by the Department, of which the wetlands continue to show improvement as they recover from the removal action.

The Department participated in meetings with counsel for the responsible parties and the Department reached settlements with de minimis parties, which was approved by the district court.

## SUFFOLK CHEMICAL CO.

**This site is also known as:**

DALY CONTRACTING SITE

**Location:** .5 MILES N OF US-76 ON CO RD 82; in CHAPIN, SC

**Description:** Abandoned industrial chemical repackaging plant with groundwater contaminated with chlorinated compounds.

**Lead**

**Designation:** State funded  
Voluntary Cleanup Contract # 96-4992-01  
CR-4992-02 (01/20/1998)

**Funds Expended in FY'06:** \$38,970                      **Total Site Expenditures:** \$911,433

**Action Taken in FY'06:**

An assessment of groundwater quality during the fourth year of operation of the groundwater extraction system was completed. The remedial system is functioning properly and recovering VOC-impacted groundwater from beneath the site. Effluent discharged to the Chapin waste-water treatment plant is currently passing toxicity testing and has not shown evidence of contaminant concentration spikes during long-term operation. It is estimated that approximately 8,424,070 gallons of groundwater have been pumped from beneath the site and 3.89 pounds of VOCs have been removed by the extraction system since April 2002. Monitoring will continue to evaluate any changes to the contaminant concentrations and distribution.

## SUN CHEMICAL CORPORATION

**This site is also known as:**

SEQUA CHEMICALS COMPANY

**Location:** ONE SEQUA DRIVE; in CHESTER, SC

**Description:** A manufacturing facility that makes specialty chemical products. Soil contaminated with Polychlorinated Biphenyls (PCBs) and Volatile Organic Compounds (VOCs); groundwater contaminated with VOCs.

**Lead Designation:**

Responsible Party funded  
Consent Agreement 99-39-HW (08/30/1999)

**Funds Expended in FY'06:** \$9,750                      **Total Site Expenditures:** \$46,957

**Action Taken in FY'06:**

The Department received a draft Feasibility Study on August 18, 2005, and approved the FS on September 6, 2005. The Proposed Plan was approved on April 10, 2006. The Department developed a community mailing list and a Fact Sheet for the public, which summarized the Proposed Plan. The Fact Sheet was hand delivered to and mailed to the residents in May 2006. A public meeting was held on May 11, 2006, to inform the public of the preferred remedy for groundwater and soil. The Record of Decision will be drafted during FY07.

## TECH PARK PROPERTY

**Location:** QUANZ STREET; in ROCK HILL, SC

**Description:** Suspected groundwater contamination from off-site source.

**Lead Designation:** State funded

**Funds Expended in FY'06:** \$45                      **Total Site Expenditures:** \$45

**Action Taken in FY'06:**

Based upon groundwater monitoring results, the Department determined that the contamination detected on the site had migrated from an off-site source. A Letter of Completion was provided to the City of Rock Hill on July 19, 2005, regarding the August 2004 Letter of Agreement.

## THOMAS & BETTS - INMAN FACILITY

**This site is also known as:**

TYCO; and HOLMBERG ELECTRONICS

**Location:** 10390 U.S. HWY 176 (ASHEVILLE HWY); in INMAN, SC

**Description:** PCE, toluene & heavy metals in two on-site sanitary septic systems, on-site oil/water separator & on-site infiltration gallery.

**Lead Designation:**

Responsible Party funded  
Non- Responsible Party funded  
Voluntary Cleanup Contracts # 04-5483-RP and # 07-5483-NRP

**Funds Expended in FY'06:** \$4,040                      **Total Site Expenditures:** \$10,910

**Action Taken in FY'06:**

The Final Remedial Investigation Report was approved in January 2006. A draft Feasibility Study Report was submitted to the Department and is currently under review.



### TRUMAN STREET WORKS CENTER

**Location:** 2939 TRUMAN STREET; in COLUMBIA, SC

**Description:** Former operations center for telephone systems installation crews with petroleum contaminants in gw due to leaking UST. Potential soil/gw contamination with hazardous substances due to vehicle maintenance conducted on site.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 02-5469-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:** \$1,469

**Action Taken in FY'06:**

The property owners submitted a Report of Assessment results on April 11, 2005. On June 16, 2005, the Department determined that no further action would be required under the VCC with the property owner's agreement to enter into a restrictive covenant. The Department sent the restrictive covenant to the two property owners for signature on May 18, 2006.

### VAN NESS SIGN & LEASING SITE

**Location:** AUSTIN AVENUE; in CHARLESTON, SC

**Description:** Site is mainly undeveloped marshland. Assessment for hazardous substances planned under VCP.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 03-5518-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:** \$434

**Action Taken in FY'06:**

The Department approved a revised work plan for assessment on August 22, 2005. Ashley II, LLC performed assessment activities and submitted a report of assessment results with plans for further soil assessment. The Department approved the proposed additional assessment activities on February 27, 2006. The Department also recommended further assessment of identified impacts to soil and groundwater quality. Ashley II reported additional groundwater and soil quality results on May 1, 2006.

### VAUGHN'S AT EAST NORTH SITE

**Location:** 3715 E. NORTH STREET; in GREENVILLE, SC

**Description:** Former drycleaning facility with potential PCE/TCE in groundwater.

**Lead**

**Designation:**

Non- Responsible Party funded  
Voluntary Cleanup Contract # 05-5616-NRP

**Funds Expended in FY'06:**

\$151

**Total Site Expenditures:**

\$151

**Action Taken in FY'06:**

The VCC 05-5616-NRP was executed on September 2, 2005, with Vaughn's Station, LLC for a shopping mall. A revised Work Plan approved on November 29, 2005, focused an investigation of soil and groundwater in the vicinity of the former dry cleaners. The April 28, 2006, Progress Report confirmed the presence of volatile organic compounds in the groundwater. A Final Report is due in FY07.

**WASTEMASTER OF SC INC.**

**This site is also known as:**

APPLETON SANITARY LANDFILL

**Location:** HWY 125- NEAR S-3-52; in ALLENDALE, SC

**Description:** Inactive municipal solid waste landfill that had uncertain management history. Site was never closed in accordance with regulatory requirements.

**Lead**

**Designation:** State funded

**Funds Expended in FY'06:** \$1,141                      **Total Site Expenditures:** \$1,141

**Action Taken in FY'06:**

The Department performed a title search of the real property in order to identify potentially responsible parties.

**WEEKS LIQUID FERTILIZER INC.**

**Location:** AIR BASE RD., COUNTY ROAD #769; in CONGAREE, SC

**Description:** Bankrupt facility used for blending fertilizer, herbicides, and pesticides.

**Lead**

**Designation:**

Responsible Party funded

Administrative Consent Agreement 93-29-SW (07/06/1993)

**Funds Expended in FY'06:** \$330                      **Total Site Expenditures:** \$20,602

**Action Taken in FY'06:**

The newly installed well was sampled and included in routine monitoring. An annual report was received and reviewed. The Department requested one round of extensive groundwater sampling in support of the anticipated five-year review.

**WEEKS PROPERTY**

**Location:** TNT ROAD; in ADAMS RUN, SC

**Description:** Property leased by Stoller Chemical Company. Stoller deposited chemicals in drums and tanks on property.

**Lead**

**Designation:** State funded

**Funds Expended in FY'06:** \$9,527                      **Total Site Expenditures:** \$15,204

**Action Taken in FY'06:**

The Department reviewed the drum characterization for the waste found at the property. The owner was offered the opportunity to properly dispose of the drummed waste.

## WASTEMASTER OF SC INC.

**This site is also known as:**

APPLETON SANITARY LANDFILL

**Location:** HWY 125- NEAR S-3-52; in ALLENDALE, SC

**Description:** Inactive municipal solid waste landfill that had uncertain management history. Site was never closed in accordance with regulatory requirements.

**Lead**

**Designation:** State funded

**Funds Expended in FY'06:** \$1,141 **Total Site Expenditures:** \$1,141

**Action Taken in FY'06:**

The Department performed a title search of the real property in order to identify potentially responsible parties.

## WEEKS LIQUID FERTILIZER INC.

**Location:** AIR BASE RD., COUNTY ROAD #769; in CONGAREE, SC

**Description:** Bankrupt facility used for blending fertilizer, herbicides, and pesticides.

**Lead**

**Designation:**

Responsible Party funded

Administrative Consent Agreement 93-29-SW (07/06/1993)

**Funds Expended in FY'06:** \$330 **Total Site Expenditures:** \$20,602

**Action Taken in FY'06:**

The newly installed well was sampled and included in routine monitoring. An annual report was received and reviewed. The Department requested one round of extensive groundwater sampling in support of the anticipated five-year review.

## WEEKS PROPERTY

**Location:** TNT ROAD; in ADAMS RUN, SC

**Description:** Property leased by Stoller Chemical Company. Stoller deposited chemicals in drums and tanks on property.

**Lead**

**Designation:** State funded

**Funds Expended in FY'06:** \$9,527 **Total Site Expenditures:** \$15,204

**Action Taken in FY'06:**

The Department reviewed the drum characterization for the waste found at the property. The owner was offered the opportunity to properly dispose of the drummed waste.

**WESTVACO LANDFILL - FAIN STREET**

**Location:** WEST OF FAIN STREET; in NORTH CHARLESTON, SC

**Description:** Former industrial solid waste landfill that accepted bark sludge, coal ash, & non-hazardous paint containers. Potential for any type of contamination to exist here.

**Lead**

**Designation:**

Non- Responsible Party funded

Voluntary Cleanup Contract # 01-5417-NRP

**Funds Expended in FY'06:**

**Total Site Expenditures:** \$1,181

**Action Taken in FY'06:**

Thompson North Charleston Properties installed groundwater monitoring wells in October 2005, and submitted a plan for methane monitoring on November 8, 2005. On January 6, 2006, the Department required modifications to the work plan. Thompson North Charleston submitted a revised plan on January 16, 2006, which the Department approved on January 30, 2006. Thompson North Charleston Properties submitted reports of methane monitoring and groundwater quality in April and May 2006. The Department will complete its review of these reports in early FY07.

## South Carolina Sites on the National Priorities List (NPL)

Sites shown in this list are being addressed under the authority of the Federal Superfund Program. SAR staff provide technical and administrative assistance to USEPA on those sites. Most of those sites are on the NPL, or have been recommended for listing. Currently, South Carolina has twenty-seven(27) sites on the NPL, thirteen (13) equivalent or proposed sites on the list, and three (3) NPL sites delisted. Sites on the NPL are eligible to receive Federal Superfund money for remedial activities. Revenues from the uncontrolled sites portion of the State's Hazardous Waste Contingency Fund are used to provide the state's cost share for Fund-lead NPL sites. As the current Federal law is written, the state's cost share for remedial action at Fund-lead sites is a minimum of ten percent (10%) but may be as high as fifty percent (50%) for sites owned or operated by the state or any of its political subdivisions. The state is also responsible for the same cost share percentage for the first year of any long term monitoring. Thereafter, the state becomes responsible for one hundred percent (100%) of the costs for Operation and Maintenance (O&M). Furthermore, if any remedial action requires more than ten years (e.g., groundwater recovery and treatment operations), the state is required to fund one hundred percent (100%) of the cost after the first ten years. The table below is a complete NPL list for South Carolina.

Key to the Acronyms on the NPL list:

NPL means the site is listed on the National Priorities List

NPL-D means the site has been "delisted" or removed from the National Priorities List

NPL-P means the site is proposed for the National Priorities List

NPL-R means the site is on the National Priorities List, but is being addressed under RCRA.

NPLS means the site is a satellite site of a National Priorities List site

NPL-E (equivalent) or SACM (Superfund Accelerated Cleanup Model) means the site is being addressed as if on the NPL, even though it has not been formally listed for the NPL.

Site Name EPA ID No. City Name	County	NPL Status	Description
<b>ADMIRAL HOME APPLIANCES</b>			
SCD047563614 WILLISTON, SC	BARNWELL	NPL-E	
<b>ARKWRIGHT DUMP</b>			
SC0002333227 SPARTANBURG, SC	SPARTANBURG	NPL-E	The site is a former landfill approximately 30 acres in size operated during the 1950s and 1960s by the City of Spartanburg. The site contains areas of exposed municipal waste and medical waste as well as discolored soil and ponded water.
<b>ASHEPOO PHOSPHATE/FERTILIZER WORKS</b>			
SC0001645373 CHARLESTON, SC	CHARLESTON	NPL-E	Charleston Container Co. is a portion of this site and is being worked on in the VCP. A phosphate fertilizer granulation plant operated at this location. Lead and arsenic are present in the soil and groundwater. Groundwater has low pH.
<b>ATLANTIC PHOSPHATE WORKS/SCE&amp;G HAGOOD ST</b>			
SCD000822171 CHARLESTON, SC, SC	CHARLESTON	NPL-E	Former phosphate fertilizer plant. Documented low pH groundwater and heavy metal contamination.
<b>BEAUNIT CORP-CIRCULAR KNIT &amp; DYEING PL</b>			
SCD000447268 FOUNTAIN INN, SC	GREENVILLE	NPL	On-site wastewater lagoon.
<b>BRAY PARK DUMP</b>			
SCD980844500 CAYCE, SC	LEXINGTON	NPLS	Old uncontrolled town dump. Heavy metal contamination present in groundwater. Part of Lexington County 321 Landfill site.
<b>BREWER GOLD MINE DAM FAILURE</b>			
SCD987577913 JEFFERSON, SC	CHESTERFIELD	NPL	Dam failure at the mine released acid mine drainage to nearby creek. EPA did emergency response.

Site Name EPA ID No. City Name	County	NPL Status	Description
		NPL	
<b>CALHOUN PARK AREA SITE</b> SCD987581337 CHARLESTON, SC	CHARLESTON	NPL-E	A former manufactured gas plant and Ansonborough Homes, a public housing unit.
<b>CAROLAWN</b> SCD980558316 FORT LAWN, SC	CHESTER	NPL	Waste stored for planned on-site incineration in large above ground bulk tanks and drums. The site is split into two operable units. OU-2 is a no further action.
<b>COLUMBIA NITROGEN</b> SC0001040393 CHARLESTON, SC	CHARLESTON	NPL-E	The site operated from 1905 to 1966 as a phosphate fertilizer granulation plant.
<b>ELMORE (FRANK) SITE</b> SCD980839542 GREER, SC	SPARTANBURG	NPL	Drum disposal site and abandoned underground storage tank. Site has been subdivided and is now owned by 2 different property owners.
<b>GEIGER (C &amp; M OIL) SITE</b> SCD980711279 RANTOWLES, SC	CHARLESTON	NPL	Waste oil incinerator with eight on-site storage lagoons.
<b>GOLDEN STRIP SEPTIC TANK</b> SCD980799456 SIMPSONVILLE, SC	GREENVILLE	NPL-D	Lagoons containing industrial waste water pumped from area industries. Site has been delisted. File indicates a YMCA Recreation Park was proposed for this site.
<b>GROCE LABORATORIES INC (AQUA-TECH)</b> SCD058754789 GREER, SC	SPARTANBURG	NPL	Closed RCRA treatment, storage, and disposal facility. Approximately 7,000 drums, 97 above-ground tanks, 1,200 gas cylinders.
<b>HELENA CHEMICAL CO. - FAIRFAX</b> SCD058753971 FAIRFAX, SC	ALLENDALE	NPL	On-site landfilling of pesticides.
<b>HENRY'S KNOB AKA HENRY KNOB</b> SCN000407376 CLOVER, SC	YORK	NPL-E	Former open kyanite mine with low pH in surface water and contaminated soils and groundwater. Elevated metals in soil and groundwater.
<b>INDEPENDENT NAIL CO.</b> SCD004773644 BEAUFORT, SC	BEAUFORT	NPL-D	Wastewater discharged to on-site (no discharge) lagoon. Removal conducted on the lagoon. EPA delisted site. Currently under long term groundwater monitoring.
<b>KALAMA SPECIALITY</b> SCD094995503 BURTON, SC	BEAUFORT	NPL	Specialty chemical manufacturer discharged wastewater to on-site lagoon.
<b>KOPPERS CO INC</b> SCD003353026 FLORENCE, SC	FLORENCE	NPL-R	Abandoned creosote & PCP lagoons.
<b>KOPPERS CO/TREATING PLANT</b> SCD980310239 CHARLESTON, SC	CHARLESTON	NPL	Large wood treatment plant that used creosote, pentachlorophenol, and chromated copper arsenate (CCA).
<b>LEONARD CHEMICAL CO INC</b> SCD991279324 CATAWBA, SC	YORK	NPL	Solvent reclaimer, landfilled distillation still bottoms on-site & drum storage.
<b>LEXINGTON COUNTY LANDFILL</b> SCD980558043 CAYCE, SC	LEXINGTON	NPL	County operated landfill that accepted industrial and domestic wastes.
<b>MACALLOY CORPORATION</b> SCD003360476 CHARLESTON, SC, SC	CHARLESTON	NPL	Ferro-chrome alloy producer using submerged electric arc furnaces. Chromium contamination from air pollution (precip. dust & tower sludge)

<b>Site Name</b> <b>EPA ID No.</b> <b>City Name</b>	<b>County</b>	<b>NPL</b> <b>Status</b>	<b>Description</b>
<b>MEDLEY FARMS</b> SCD980558142 GAFFNEY, SC	CHEROKEE	NPL	Drum disposal and lagoons filled with hazardous substances.
<b>PALMETTO RECYCLING INC</b> SCD037398120 COLUMBIA, SC	RICHLAND	NPL-D	Battery recycling operation, acid(H2SO4) stored in a below ground sump, the lead plates were shipped out of state for recycling.
<b>PALMETTO WOOD PRESERVING, INC</b> SCD003362217 CAYCE, SC	LEXINGTON	NPL	Spillage of Copper Chromium Arsenic (CCA) solution used for lumber treatment.
<b>PARA-CHEM SOUTHERN INC</b> SCD002601656 SIMPSONVILLE, SC	GREENVILLE	NPL	Synthetic organic chemical manufacturer who buried solvents on-site behind the plant.
<b>ROCHESTER PROPERTY</b> SCD980840698 TRAVELERS REST, SC	GREENVILLE	NPL	Burial of industrial waste brought here from off site.
<b>ROCK HILL CHEM.-RUTLEDGE (BILL) PROPERTY</b> SCD980844005 ROCK HILL, SC	YORK	NPL	Aboveground storage tanks containing hazardous waste (methylene chloride) also soil contamination from spillage. Site was formerly a reclaimer in early 1960's.
<b>SANGAMO/LAKE HARTWELL OPERABLE UNIT 2</b> SCS123456847 PICKENS, SC	PICKENS	NPL	Historic release of PCBs from Sangamo Plant into Twelve Mile Creek have contaminated sediment & fish tissue.
<b>SANGAMO/TWELVE-MILE/HARTWELL</b> SCD003354412 PICKENS, SC	PICKENS	NPL	On-site capacitor burial, soil and stream sediment PCB contamination. Operable Unit 1 (OU-1)
<b>SCR&amp;D BLUFF ROAD SITE</b> SCD000622787 COLUMBIA, SC	RICHLAND	NPL	Drum storage facility where wastes were originally planned to be recycled.
<b>SCR&amp;D DIXIANA</b> SCD980711394 CAYCE, SC	LEXINGTON	NPL	Drum storage site. Wastes originally planned for recycling.
<b>SHURON TEXTRON INC.</b> SCD003357589 BARNWELL, SC	BARNWELL	NPL	Plant operated from 1958 to 1992. Sludge lagoons and two drying basins containing VOCs and metals. Two debris areas containing drums and plant waste are present. The RI/FS was completed for the site. ROD was written for the site.
<b>SWIFT AGRI-CHEM CORP</b> SCD058181991 CHARLESTON, SC	CHARLESTON	NPL-E	A phosphate fertilizer granulation plant operated at this location. Lead and arsenic present in the soils and groundwater. Low pHs in the groundwater.
<b>TOWNSEND SAW CHAIN CO</b> SCD980558050 PONTIAC, SC	RICHLAND	NPL	Chromium plating waste discharged onto the ground surface.
<b>US DOE SRS / SAVANNAH RIVER PLANT</b> SC1890008989 AIKEN, SC	AIKEN	NPL	Federal site currently being handled on federal level. (01/28/88)
<b>USMC MARINE CORPS RECRUIT DEPOT</b> SC6170022762 PARRIS ISLAND, SC	BEAUFORT	NPL	Federal site currently being handled on federal level. (01/28/88)
<b>WAMCHEM INC</b> SCD037405362 BURTON, SC	BEAUFORT	NPL	Specialty chemical manufacturer discharged wastewater to spray irrigation fields

## USEPA Record of Decision Sites Within SC

To date, DHEC has concurred with the USEPA on twenty-four (24) Records of Decision (RODs). Below is a list of sites with a USEPA ROD. Included is a brief description of the remedial activities, along with the State's estimated cost share requirement and the fiscal year in which the ROD was signed.

<b>Fiscal Year</b>	<b>Site Name</b>	<b>County</b>	<b>State Match</b>	<b>Selected Alternatives</b>
FY'87	Geiger Property	Charleston	\$310,000 (OU1) \$222,429 (OU2)	Solidification/stabilization; groundwater recovery and treatment; 30-years of groundwater monitoring.
FY'87	SCR&D/Dixiana	Lexington	\$183,068	Groundwater recovery and treatment; 30-years of groundwater monitoring.
FY'88	Independent Nail Company	Beaufort	\$65,000	On-site solidification/stabilization of contaminants, oils and lagoon sediment.
FY'88	Wamchem, Inc.	Beaufort	No match required; responsible party funded.	On-site treatment of contaminated soils; groundwater recovery and treatment.
FY'88	Palmetto Wood Preserving	Lexington	\$935,108	On-site treatment of contaminated soils; groundwater recovery and treatment.
FY'90	Carolawn (OU1)	York	No match required; responsible party funded.	Groundwater recovery and treatment.
FY'90	Medley Farms	Cherokee	No match required; responsible party funded.	On-site treatment of contaminated soils; groundwater recovery and



				treatment.
FY'90	SCR&D Bluff Road	Richland	No match required; responsible party funded	On-site treatment of contaminated soils; groundwater recovery and treatment.
FY'92	Golden Strip Septic Tank	Greenville	No match required; responsible party funded.	On-site treatment of contaminated soils; lagoon water discharge to POTW.
FY'93	Frank Elmore	Spartanburg	\$180,114	Excavation and off-site disposal of contaminated soils; groundwater extraction.
FY'94	Sangamo Weston (OU2)	Pickens	No match required; responsible party funded.	Monitoring of contaminant levels in Lake Hartwell and 12 Mile Creek; public education.
FY'94	Helena Chemical	Allendale	No match required; responsible party funded.	Hydrolytic Photolytic Dechlorination and Biologic Treatment for soils and pump and treat for groundwater.
FY'94	Kalama Specialty	Beaufort	No match required; responsible party funded.	Enhanced Volatilization for soils and pump and treat for groundwater.
FY'94	Rochester Property	Greenville	No match required; responsible party funded.	No remedy for soils. Air sparging for groundwater.
FY'94	Para-Chem	Greenville	No match required; responsible party funded.	On-site treatment of contaminated soils using biological treatment; groundwater recovery and treatment.
FY'94	Rock Hill Chemical	York	No match required; responsible party	Groundwater extraction with discharge to local POTW.

			funded.	
FY'95	Palmetto Recycling	Richland	No match required; responsible party funded.	Excavation and off-site disposal of contaminated soils.
FY'95	Lexington County Landfill	Lexington	No match required; responsible party funded.	Waste consolidation; upgrade existing cap; groundwater extraction.
FY'95	Koppers (Interim Action ROD)	Charleston	No match required; responsible party funded.	Off-site drainage controls to eliminate migration and exposure to contamination; extraction and treatment of groundwater/non-aqueous phase liquid underlying the former treatment area.
FY'96	Beaunit	Greenville	No match required; responsible party funded.	Low permeability cap over site; hazardous soils to be disposed in Subtitle C landfill; continuous groundwater monitoring.
FY'96	Carolawn (OU2)	York	No match required; responsible party funded.	No Action; OU2 not impacting human health or the environment.
FY'97	Townsend Saw Chain	Richland	No match required; responsible party funded.	In-situ chemical treatment of soil and groundwater; continued operation of interim action groundwater pump and treat system; sediment removal.
FY'98 *****	Koppers	Charleston	No match required; responsible party funded.	Removal and off-site disposal of heavily contaminated soils; capping of less contaminated soils; groundwater extraction and treatment; restoration of Barge Canal on Ashley River; restoration of impacted portions of 3 marsh areas.

FY'99	Calhoun Park Area Site	Charleston	No match required; responsible party funded.	Soil removal and offsite disposal of heavily contaminated soils; groundwater/NAPL extraction and treatment. Sediments will be addressed in separate ROD.
FY'99	Shuron, Inc.	Barnwell	No match required; responsible party funded.	Soils/sediment excavation followed by onsite treatment and disposal or offsite disposal. Groundwater extraction and treatment. Restoration of wetlands.
FY'02	Leonard Chemical	York	No match required; responsible party funded.	Surface soils excavation and offsite disposal. Soil vapor extraction for subsurface soils. Air sparging to treat contaminated groundwater.
FY'03	Arkwright Dump	Spartanburg	No match required; Responsible party Funded.	Capping of municipal landfill and enhanced biodegradation treatment for groundwater contamination.
FY'03	Calhoun Park Area Site OU-II	Charleston	No match required; Responsible party funded.	Monitoring and maintenance of the existing sand blanket for contaminated river sediments and DNAPL removal from the intermediate groundwater aquifer.
FY'03	Macalloy	Charleston	No match required; Responsible party funded.	Solidification/stabilization of contaminated soils and sediments; and in-situ chemical treatment of contaminated groundwater.

FY'04	Aqua-Tech Environmental, Inc	Spartanburg	No match required; Responsible party funded.	In-situ soil treatment and capping of contaminated soils; in-situ chemical injection for treatment of contaminated groundwater.
FY'04	Tin Products	Lexington	No match required.	No action ROD for surface water and sediments with limited continued monitoring.

\*\*\*\*\*In FY'98, USEPA issued a ROD for the Koppers Site in Charleston, SC. DHEC did not concur with this ROD. While DHEC believed USEPA's selected remedy provided some benefits at the site, we did not believe that the selected remedy would have achieved long-term protection of public health and the environment. DHEC entered into a Consent Agreement with the responsible party that required additional work beyond USEPA's selected remedy to ensure that DHEC's concerns for long-term protection of public health and the environment were addressed.

## FEDERAL FACILITIES ON SITE ASSESSMENT PROJECTS LIST

SITE NAME	EPA ID No.	COUNTY
NATIONAL PARK SERVICE TOUR BOAT SITE	SCD987572674	CHARLESTON
NAVAL HOSPITAL BEAUFORT	SC8170023782	BEAUFORT
NAVAL SHIPYARD - CHARLESTON	SC0170022560	CHARLESTON
NAVAL WEAPONS STATION - CHARLESTON	SC8170022560	CHARLESTON
NORTH CHARLESTON POST OFFICE LANDFILL	SCD987566346	CHARLESTON
SHAW AIR FORCE BASE	SC7570024466	SUMTER
TOWN OF HANAHAN WASTE DISPOSAL AREA	SC0000099168	BERKELEY
US DOE SAV R PLT TNX (OLD) BASIN	SCD981931348	AIKEN
US DOE SAV R PLT WASTE BURIAL	SCD981931306	AIKEN
US DOE SRS / SAVANNAH RIVER PLANT	SC1890008989	AIKEN
US DOE SRS BURNING/RUBBLE PILE	SCD981931009	AIKEN
US DOE SRS HYDROFLORIC ACID (HF)SPL AREA	SCD982119372	AIKEN
US DOE SRS L-AREA OIL AND CHEMICAL BASIN	SCD981931058	AIKEN
US DOE SRS SAVANNAH RIVER PLANT/ADMIN.	SCD001863620	AIKEN
US DOE SRS SRP ACID CAUSTIC BASIN	SCD981930993	AIKEN
US DOE SRS SRP OIL TEST SITE	SC3890090001	AIKEN
US DOE SRS WASTE OIL BASIN	SCD981931041	AIKEN
USA CHARLESTON ARMY DEPOT	SC7210020189	CHARLESTON
USA FORT JACKSON & ARMY TRAINING CENTER	SC3210020449	RICHLAND
USAF AEROSPACE GROUND EQUIPMENT	SC2570025260	HORRY
USAF CHARLESTON AIR FORCE BASE	SC3570024460	CHARLESTON
USAF MYRTLE BEACH AFB	SC7570024821	HORRY
USAF MYRTLE BEACH AFB STP	SC0570028589	HORRY
USAF SHAW AFB POINSETT RANGE	SC9570090002	SUMTER
USDOD DEF FUEL SUPPORT PT CHARLESTON	SC9570024332	BERKELEY
USMC AIR STATION LANDFILL #1	SC1750216169	BEAUFORT
USMC AIR STATION LANDFILL NO 1	SC6170023208	BEAUFORT
USMC MARINE CORPS RECRUIT DEPOT	SC6170022762	BEAUFORT

## Brownfields Grant Recipients in SC

*Brownfields are real property where the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant.*

In South Carolina, fifteen (15) local governments, non-profits, or governmental entities have received grant money from the United States Environmental Protection Agency (USEPA) to assist in the assessment, cleanup, and job training at Brownfields sites in targeted areas. These grants are listed below. The Brownfields grant program has provided these governmental entities and non-profit organizations an opportunity to conduct environmental assessments, cleanup, and job training at Brownfields in their political jurisdiction. Department staff assists each of the grantees by providing oversight and technical support, providing public participation support, reviewing documents and providing comments.

RECIPIENT & LOCATION	COUNTY	PROJECT MANAGER	GRANTS RECEIVED
City of Anderson Anderson Mill Anderson Railroad Site Pickens Railway Co.	Anderson	Ms. Linda McConnell City of Anderson 401 S. Main Street Anderson, SC 29624 864-222-3975	* Completed *Hazardous Substance Assessment Grant *UST-fields
Catawba Regional Council of Governments Textile Mill Sites	York, Chester, Lancaster, Union	Mr. Harold Sharpio Executive Director 215 Hampton Street P.O. Box 450 Rock Hill, SC 29731 803-327-9041 crcog@catawbacog.org	* Completed *Hazardous Substance Assessment Grant  A second award for assessment of hazardous substances in the Rock Hill area was announced in May 2006
City of Charleston Neck Area	Charleston	Ms. Geona Shaw Johnson City of Charleston 75 Calhoun Street Charleston, SC 29401 843-724-3767 johnsong@ci.charleston.sc.us	* Hazardous Substance Assessment Grant *Supplemental Funding *Brownfields Cleanup Revolving Loan Fund *Jobs-Training Grant *Petroleum Assessment Grant
City of Columbia EdVenture Museum Site Former CCI Columbia Supply	Richland	Mr. Fred Delk Executive Director Columbia Development Corporation PO Box 734 Columbia, SC 29202 803-988-8040	* Completed *Hazardous Substance Assessment grant awarded October 1998 *A second award – Hazardous Substance and Petroleum Assessment Grants were announced in May 2006. The hazardous substance grant will target areas in the Empowerment Zone while the petroleum grant will assess sites in the East Central City and the Eau Claire/North Columbia area

Town of Cowpens Former Health-tex Facility Site	Spartanburg	Mr. Joe Morici, Concurrent Technologies Corp. 1233 Washington Street, Suite 1000 Columbia, SC 29201 803-978-7525	* Completed Hazardous Substance Assessment Grant
City of Florence Bush's Recycling Site	Florence	Mr. David Williams County Administrator City of Florence City County Complex AA Florence, SC 29501-3456 843-665-3113	*Completed *Hazardous Substance Assessment Grant  A Remediation Grant for Bush's Recycling Site was announced in May 2006.
City of Greenville West End Area	Greenville	Economic Development Dept. City of Greenville P.O. Box 2207 Greenville, SC 29602 864-467-4401	* Completed * Hazardous Substance Assessment grant *Job-Training Grant *UST Fields Grant-assessment and some free product removal completed at site at corner of Birmie and Hudson Streets, "Greasy Corner." Additional assessment is planned at other areas with the City.  New Hazardous Substance Assessment Grant was announced in May 2006. This funding will be used to assess sites in the West Greenville/ Reedy River Corridor
City of Laurens	Laurens	City of Laurens P.O. Box 519 Laurens, SC 29360 864-984-0144	* Completed *Hazardous Substance Assessment grant
Spartanburg County Arkwright and Forest Park Communities	Spartanburg	Mr. Harold Mitchell Executive Director ReGenesis, Inc. 3000 S. Church Street Spartanburg, SC 29306 864-583-2712	*Completed *Hazardous Substance Assessment Grant *Environmental Justice Grant *Superfund Redevelopment Grant *Environmental Justice Collaborative Problem-Solving Grant Hazardous Substance and Petroleum Cleanup Grant
City of Rock Hill Arcade/Westside Area	York	City of Rock Hill PO Box 11706 Rock Hill, SC 29731 803-329-7009	*Hazardous Substance Assessment Grant * Environmental Justice Collaborative Problem-Solving Grant

Town of Ware Shoals Former Reigel Mill	Greenwood	Mayor George Rush Town of Ware Shoals 8 Mill Street Ware Shoals, SC 29692-0510 864-456-7478 grush@wareshoals.org	* Completed *Hazardous Substance Assessment Grant
Aiken County Seminole Mill	Aiken	Mr. Clay Killian Administrator Aiken County 828 Richland Avenue, West Aiken, S C 29801 803-642-2012	* Completed *Hazardous Substance Assessment Grant

SCDHEC	State-wide	Gail Rawls Jeter Site Assessment & Remediation Land & Waste Management SCDHEC 2600 Bull Street Columbia, SC 29201 803-896-4069 jetergr@dhec.sc.gov	Brownfields Cleanup Revolving Loan Fund
SCDHEC	Town of Jackson Aiken County	Mark Berenbrok UST Program Land & Waste Management SCDHEC 2600 Bull Street Columbia, SC 29201 803-896-6848 berenbmk@dhec.sc.gov	Petroleum Assessment Grant



## Site Specific Brownfields Assessment Sites in SC

During FY06, the Department continued to perform Site Specific Brownfields Assessments (SSA) with funding provided by the United States Environmental Protection Agency. This funding enables us to assist local governments with assessment work at sites that have a strong potential for redevelopment. Our goal in performing these assessments is to assist governments by providing the appropriate information needed to determine if there is environmental contamination at the site. This information helps with the revitalization effort. Redeveloping a brownfield property eliminates an eyesore and may create jobs and increase the tax base while protecting the environment.

SITE NAME/LOCATION	COUNTY	DESCRIPTION
Bluffton Town Dump	Beaufort	The Department approved the Town of Bluffton's final work plan in August 2005. Based on the report of assessment results submitted in March 2006, the Department approved disposal of firing range berm soil to a Subtitle D Landfill and recycling of six drums of bullets. The Department initiated plans for assessment of the landfill area, and plans to complete the SSA in FY07.
Republic Mill #2	Chester	Surface soil near the main building has been impacted with polynuclear aromatic hydrocarbons and metals above industrial risk based standards and the presence of free phase petroleum in one monitoring well. Further assessment of this property is planned.
Lake Conestee	Greenville	Based on fish tissue assessment results, the Department issued a Fish Advisory for Lake Conestee in April 2006. Conestee Foundation is continuing the assessment of groundwater quality and ecological risk in accordance with their Voluntary Cleanup Contract.

Gossett Street Site (Abney Mills)	Anderson	During FY06, Anderson County continued with efforts to remove debris from the property. Upon completion of the debris removal, the Department will conduct a second SSA to better characterize the extent of soil contamination on the property and aid the County with redevelopment plans for the property.
BC Components/Irmo Chapin Recreation Commission	Richland	The Department received the Targeted Brownfields Assessment Report in July 2005. This assessment analyzed surface soil, subsurface soil, sediment, and groundwater samples over the entire site. The Targeted Brownfields Assessment Report indicated that further sediment screening was needed in a drainage path on the western side of the site. Additionally, as part of the Voluntary Cleanup Contract, a Human Health Risk Assessment was required for the site. The results of the additional sediment screening along with the Human Health Risk Assessment are expected early in the next state fiscal year.
Sumter Inert Disposal Area/Cook Street Landfill	Sumter	The August 2005 report was reviewed and additional recommendations were outlined if the City of Sumter desires to redevelop this area. Otherwise, the project is completed.
Arkwright Mill Site	Spartanburg	EPA funds were used to perform a Tier II petroleum assessment of the release from the two USTs at the administrative office. The project was closed in June. A Phase I Environmental Site Assessment was performed. Four additional areas of suspected environmental contamination were identified and subsequently assessed. Work has been completed at three of these areas and closed. Contamination was found at the fourth area and assessment has been completed. The report is being evaluated to determine if cleanup is required. The extent of the coal and ash pile was delineated. Staff met with EPA officials to discuss the status of the site and assessment. Staff met with potential cleanup contractors at the site to perform a walkover and provide an overview of site conditions.
Nickelpumper #233	Jasper	Further assessment is continuing using non-EPA funds.

Bucks Grocery	Kershaw	Further assessment is continuing using non-EPA funds.
Interstate Truck Stop	Allendale	Further assessment is continuing using non-EPA funds.
Bobby Jones Grocery	Kershaw	Further groundwater assessment is continuing using non-EPA funds.
C H Ragsdale Grocery	Fairfield	EPA funds were used to install another monitoring well in FY06. The assessment has been completed and the project closed.
Jessie's Old Country Store	Georgetown	EPA funds were used to perform an Initial Groundwater Assessment in FY05 and further assessment is continuing using non-EPA funds.
Williams Grocery	Anderson	EPA funds were used to perform an Initial Groundwater Assessment in FY05. Further assessment is continuing using EPA funds.
Henry Wilson Station	Lee	EPA funds were used to perform an Initial Groundwater Assessment in FY05. Further assessment is continuing using non-EPA funds.
Alicia Automotive Company	Greenville	EPA funds were used to perform an Initial Groundwater Assessment in FY05. Further assessment has been completed and the project closed.
Morehead Oil Company Inc.	Newberry	EPA funds were used to perform an Initial Groundwater Assessment. Further assessment is continuing using EPA funds.
Princes Grocery	Union	EPA funds were used to perform an Initial Groundwater Assessment. Further assessment is continuing using non-EPA funds.

Pickens Railway Building	Anderson	EPA funds were used to perform a Tier I and Tier II petroleum assessment. Cleanup has begun using EPA funds.
Hardaway Concrete Plant #7	Richland	EPA funds were used to perform an Initial Groundwater Assessment. The assessment has been completed and the project closed.
Rogers Auto Parts	Anderson	EPA funds were used to perform a Tier II petroleum assessment. Assessment is continuing using non-EPA funds.
Former Oakland Avenue Station	York	EPA funds were used to perform Initial Groundwater Assessments and ground penetrating radar study. Two previously unknown USTs were found. Assessment is continuing using non-EPA funds. A non-profit foundation has purchased the property.

## Emergency Response Actions

The Emergency Response Section oversees the emergency response contract which is a strong asset to the Superfund program. Before this contract came into existence, local, county and state governments were forced to rely on the federal government and concerned corporate citizens of the state to handle small incidents when things were illegally dumped or abandoned on public property. The contract is used to secure, sample and dispose of abandoned waste.

Moran Environmental Recovery, Inc., with a branch office in North Charleston, was awarded the contract for the eastern region of the state. Nu-Way Industrial Services, Inc., was awarded the contract for the middle and upper regions of the state. Both contractors work on a 24-hour on-call basis and are required to respond within three hours to their respective regions within the state.

DHEC's Emergency Response Team (ERT) expended approximately \$44,685.00 responding to twenty incidents during FY2006. The Emergency Response Section has recovered \$15,821.13 from the National Pollution Funds Center and still has over \$11,370.00 pending approval for reimbursement. The twenty emergency response actions for this fiscal year are outlined on the following pages.

In addition to these sites where the Emergency Response Contract was used, DHEC's ERT spent countless hours responding to the fire and subsequent airborne release of hazardous substances at the Republic Mill #3 facility in Great Falls. These efforts were supported by the Hazardous Waste Contingency Fund.

<b>Contractor</b>	<b>Date</b>	<b>County</b>	<b>Cost</b>	<b>Complete</b>
Nu-Way	8/16/2005	Sumter	1441.5	Yes
Nu-Way	8/26/2005	Anderson	2289.5	Yes
Moran	10/19/2005	Charleston	Paid By RP	Yes
Nu-Way	11/1/2005	Lexington	534.26	Yes
Nu-Way	10/28/2005	Richland	5091.77	Yes
Nu-Way	11/7/2005	Greenville	2946	Yes
Moran	11/15/2005	Charleston	570	Yes
Nu-Way	11/23/2005	Lexington	1483	*Yes
Moran	12/19/2005	Dorchester	Pending	No
Nu-Way	12/19/2005	Greenville	2205.25	Yes
Nu-Way	12/29/2005	Richland	3,779.25	Yes
Nu-Way	2/7/2006	Barnwell	1344.65	Yes
Nu-Way	2/25/2006	Greenville	8231.52	*Yes
Nu-Way	2/27/2006	Spartanburg	1537	Yes
Nu-Way	2/27/2006	Sumter	5983.83	*Yes
Nu-Way	4/1/2006	Clarendon	Pending	*No
Nu-Way	5/5/2006	Orangeburg	Pending	*No
Nu-Way	6/13/2006	Sumter	4014.06	*Yes
Moran	6/24/2006	Berkeley	3233.23	Yes
Nu-Way	6/28/2006	Newberry	Pending	No

\*Denotes reimbursement sought from National Pollution Funds Center.

## Emergency Response Site Descriptions

**06-01-200503026 (Region 4)**, Sumter County. An abandoned oil drum turned over in ditch on Skinner Road in Sumter. About 25 feet of material was on the ground. NUWAY contractors removed the liquid using absorbent pads. The 55-gallon drum was determined to contain a “flammable liquid” and was removed from the ditch.

**Nu-Way Industrial Services.....\$1,441.50**

**06-02-200503167 (Region 1)**, Anderson County. An abandoned plastic container was found in a creek bed on 207 Mill Pond Road in Easley. The container appeared to contain oil/anti-freeze. NUWAY contractors removed the 275-gallon tote and contents using 5-gallon buckets and were put into one 55-gallon drum.

**Nu-Way Industrial Services.....\$2289.50**

**06-03-200504048 (Region 7)**, Charleston County. An abandoned drum that contained bleach (sodium hypochlorite solution) was found in median of Rivers Avenue in Charleston. One 55-gallon drum of oil was, and had potential of, draining into storm drains.

***Moran Environmental Recovery.....Paid by responsible party***

**06-04-200700353 (Region 3)**, Lexington County. An abandoned cylinder was found on the side of Lumber Jack Road. in Lexington County. A contractor was hired to safely remove it from the scene.

**Nu-Way Industrial Services.....\$534.26**

**06-05-200504210 (Region 3)**, Richland County. Twelve abandoned oil drums were found on I-277 bridge over I-20 in Columbia. Three vehicles came in contact with the drums and were removed from the bridge. The drums contained concrete sealers had leaked portions or their contents and the drums were placed in over-packs and properly disposed.

**Nu-Way Industrial Services.....\$5091.77**

**06-06-200504338 (Region 2)**, Greenville County. Oil/diesel fuel was poured into a creek and had entered the stream. A sewer line crossing the stream had contained the oil. NUWAY placed pads in the water to remove the oil sheen. The soil was placed in 55-gallon drums. All the pads were then removed and disposed of by Vopak as solid waste.

**Nu-Way Industrial Services.....\$2946.00**

**06-07-200504479 (Region 7)**, Charleston County. An abandoned drum was found in ditch on side of Austin Avenue in Charleston. Although the drum was not leaking, it was necessary to remove from the ditch. The contractor placed the drum in an over-pack drum. The product was determined to be a degreaser and was recycled.

**Moran Environmental Recovery.....\$570.00**

**06-08-200504665 (Region 3)**, Lexington County. Three 5-gallon buckets of used oil was dumped into a mud puddle on Old State Road, very near the Congaree River. The oil spills was contaminating the flood plain. The contractor placed pads across affected area. All generated waste was disposed of by Vopak as solid waste.

**Nu-Way Industrial Services.....\$1483.00**

**06-09-200504727 (Region 7)**, Dorchester County. An abandoned poly-white drum that showed no markings was found on the side of the road in a public parking lot. There was about eight inches of liquid at the bottom of the drum that was not leaking. A contractor was hired to remove the drum and dispose of it.

**Moran Environmental Recovery.....Pending Disposal**

**06-10-200504732 (Region 2)**, Greenville County. Three abandoned 55-gallon metal drums were found on a development site on Butler Springs Road. The contractor placed the drums in over-packs. Samples were obtained and analysis indicated that the liquid was not hazardous. It was disposed of by Vopak as non-hazardous liquid.

**Nu-Way Industrial Services.....\$2205.25**

**06-11 200504813 (Region 3)**, Lexington County. Sixteen 5-gallon containers with unknown liquid were found in a stormwater ditch along the 900 block of Old State Road. The containers were obviously leaking and the ditch where they were found leads into a tributary of Congaree Creek. A contractor removed the containers, and later analysis showed they contained paint thinner. Contaminated soil in the area was removed and all generated waste was disposed of and the unused product was recycled by Rineco.

**Nu-Way Industrial Services.....\$3,779.25**

**06-12-200600182 (Region 5)**, Barnwell County. A 55-gallon drum containing an unknown liquid was dumped on private property. Based upon information provided by Shealy Laboratories, the drum contained 1,2 dichlorobenzene and 1,3 dichlorobenzene, which are combustible liquids. The drum was removed and incinerated by Rineco in accordance with all regulations.

**Nu-Way Industrial Services.....\$1,344.65**

**06-13-200600772 (Region 2)**, Greenville County. Approximately 100 gallons of heating oil was released into a creek near a residence. The contractor provided personnel, a vac-truck, absorbent boom, and pads to remove the oil from the creek. For several days the contractors and DHEC personnel returned to the

site to change pads and inspect the area. The contractor removed approximately 2,325 gallons of oil/water mixture and four drums of contaminated boom and pads. The generated waste was incinerated at Vopak.

**Nu-Way Industrial Services.....\$8,231.52**

**06-14-200600747 (Region 2)**, Spartanburg County. A 55-gallon drum was discovered tipped on its side on Abbot Road. The drum, marked as "Waterborne traffic paint," leaked on the ground around the drum. The contractor removed the drum and the affected soil in the area and disposed of by Vopak as solid waste.

**Nu-Way Industrial Services.....\$1,537.00**

**06-15-200600777 (Region 4)**, Sumter County. Approximately 100 gallons of diesel fuel was spilled in the parking lot of a rest area on I-95 (mm139 S) resulting in some fuel accumulating in a blocked storm drain and threatening to contaminate Pudding Swamp. Sand was placed on the parking lot where there was residue and a vac-truck removed the remainder of the accumulated fuel. All generated waste was disposed of as a solid waste.

**Nu-Way Industrial Services.....\$5,983.83**

**06-16-200601357 (Region 4)**, Clarendon County. A truck accident on I-95 at mile marker 120 north resulted in a 75-gallon spill of diesel fuel into a nearby ditch. A contractor remediated the spill.

***Nu-Way Industrial Services.....Pending Disposal***

**06-17-200602012 (Region 5)**, Orangeburg County. An accident on I-95 at mile marker 87 south resulted in a tractor-trailer spilling approximately 150 gallons of diesel fuel into a nearby creek. A contractor was hired to remediate the spill and keep contamination of the creek to a minimum.

***Nu-Way Industrial Services.....Pending Disposal***

**06-18-200602608 (Region 2)**, Greenville County. A vehicle ran into a Greer home and damaged the heating tank, which caused a spill of approximately 40 gallons of heating oil. A contractor removed the tank and cleaned up the spilled fuel. Vopak disposed of the soil and debris from the cleanup as solid waste.

**Nu-Way Industrial Services.....\$4,014.06**

**06-19-200602787 (Region 7)**, Berkeley County. Two 250-gallon plastic containers, which appeared to contain a petroleum product, were found on the side of Highway 52 in St. Stevens. Analysis determined that the substance was an oil-water mixture and was disposed of as non-hazardous waste.

**Moran Environmental Recovery.....\$3,233.23**

**06-20-200700349(Region 3)**, Newberry County. A 30-gallon drum labeled as "Alkyl Aryl Poly Glycol Ether Sulfate" was found floating in Lake Murray near Billy Dreher Island. A contractor removed the drum. Analysis determined that the product was a surfactant.

***Nu-Way Industrial Services.....Pending Disposal***

**Subtotal: \$44,684.82**



## List of Standard Acronyms

ACA	Administrative Consent Agreement	OU1	Operable Unit 1
ACO	Administrative Consent Order	OU2	Operable Unit 2
AST	Above-Ground Storage Tank	PA	Preliminary Assessment
AR	Administrative Record	PAHs	Polynuclear Aromatic Hydrocarbons
BRA	Baseline Risk Assessment	PCB	Polychlorinated Biphenyl
BTEX	Benzene, Toluene, Ethylbenzene and Xylene	PCE	Perchloroethylene, Tetracloroethylene
CA	Consent Agreement	PER	Preliminary Engineering Report
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980	PIP	Project Information Package
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System	POTW	Publicly-Owned Treatment Works
CO	Consent Order	PRP	Potentially Responsible Party
COE	U.S. Army Corps of Engineers	RA	Remedial Action
DHEC	South Carolina Department of Health and Environmental Control	RCRA	Resource Conservation and Recovery Act of 1976
DOD	U.S. Department of Defense	RD	Remedial Design
DOE	U.S. Department of Energy	RD/RA	Remedial Design/Remedial Action
DOJ	U.S. Department of Justice	RI	Remedial Investigation
EE/CA	Engineering Evaluation/Cost Analysis	RI/FS	Remedial Investigation/Feasibility Study
EPA	U.S. Environmental Protection Agency	ROD	Record of Decision
ESI	Expanded Site Investigation	RP	Responsible Party
FFA	Federal Facilities Agreement	RPM	Remedial Project Manager
FOIA	Freedom of Information Act	RQ	Reportable Quantity
FS	Feasibility Study	SARA	Superfund Amendments and Reauthorization Act of 1986
FY	Fiscal Year	SI	Site Investigation
HRS	Hazard Ranking System	SOW	Scope of Work
MCL	Maximum Contaminant Level	SVOCs	Semi-Volatile Organic Compounds
NCP	National Contingency Plan	TBSA	Targeted Brownfields Site Assessment
NPDES	National Pollution Discharge Elimination System	TCA	Trichloroethane
NPL	National Priorities List	TCE	Trichloroethene
NRDs	Natural Resource Damages	TCLP	Toxicity Characteristic Leaching Procedure
NRP	Non-Responsible Party	TSDF	Treatment, Storage and Disposal Facility
NOSW	Notification of Site Work	USEPA	United States Environmental Protection Agency
O&M	Operation and Maintenance	UST	Underground Storage Tank
OSHA	Occupational Safety and Health Administration	VCC	Voluntary Cleanup Contract
		VCP	Voluntary Cleanup Program
		VOCs	Volative Organic Compounds

## Glossary Of Terms

**Abatement** - Reducing the degree or intensity of, or eliminating, pollution.

**Acute exposure** – A single exposure to a toxic substance, which may result in severe biological harm or death.

**Administrative Consent Agreement** - A legally binding and enforceable agreement between the South Carolina Department of Health and Environmental Control and potentially responsible parties to perform or pay for site studies or cleanups.

**Administrative Record** - All documents which USEPA or the Department considered or relied upon in selecting the response action at a Superfund site, culminating in the record of decision for remedial action or an action memorandum for removal actions.

**Aeration** - A process that promotes breakdown of contaminants in soil or water by exposing them to air.

**Air Stripping** - A process whereby volatile organic compounds (VOCs) are removed from contaminated water by forcing a stream of air through it in a pressurized vessel. The contaminants evaporate into the air stream. The air may be further treated before it is released into the atmosphere.

**Aquifer** - An underground layer of rock, sand or gravel capable of storing water within cracks and pore spaces (i.e. between grains). The water contained in the aquifer is called groundwater.

**Backfill** – An excavated area that is refilled with earth; or the material itself that is used to refill an excavated area.

**Background Level** - The naturally occurring level of an element or compound in the environment.

**Brownfields** – Properties where expansion, reuse, or redevelopment is complicated by real or perceived environmental contamination.

**Cap** - A layer of material, such as clay or a synthetic material, used to prevent direct contact with waste materials or to prevent rainwater from penetrating through a contaminated area and spreading contaminated materials. The surface cap is generally mounded or sloped so water will drain off of the cap.

**Carcinogen** - Any substance that can cause or aggravate cancer.

**Closure** - The process by which a landfill stops accepting wastes and is shut down under guidelines that ensure that public health and the environment are protected.

**Coal Gasification** Conversion of coal to a gaseous product by one of several available technologies.

**Consent Agreement** - A legally binding and enforceable agreement between DHEC and potentially responsible parties to perform or pay for site studies or cleanups.

**Consent Decree** - A legal document, approved and issued by a judge, formalizing an agreement between USEPA or the Department and the parties potentially responsible for site contamination. The decree usually describes cleanup actions that the potentially responsible parties are required to perform.

**Contaminant** - Any physical, chemical, biological, or radiological substance or matter that has an adverse effect on air, water, or soil.

**Contamination** - Introduction into water, air, and soil of microorganisms, chemicals, toxic substances, wastes, or wastewater in a concentration that makes the medium unfit for its next intended use. Also applies to surfaces of objects, buildings, and various household and agricultural use products.

**Cost Recovery** - A legal process by which potentially responsible parties who contributed to contamination at a Superfund site can be required to reimburse the Hazardous Waste Contingency Fund for money spent during any cleanup actions by the state.

**Downgradient** - The direction that groundwater flows; similar to "downstream" for surface water.

**Dredging** - Removal of mud from the bottom of water bodies.

**Effluent** - Wastewater, treated or untreated, that flows out of a treatment plant, sewer or industrial outfall.

**Emergency Planning and Community Right-To-Know Act (EPCRA)** - Also known as Superfund Amendments and Reauthorization Act (SARA) title III, provides an infrastructure at the state and local levels to plan for chemical emergencies. Facilities that store, use, or release certain chemicals, may be subject to various reporting requirements under EPCRA. Reported information is then made publicly available so that interested parties may become informed about potentially dangerous chemicals in their community.

**Environment** - The sum of all external conditions affecting the life, development and survival of an organism.

**Environmental Justice (EJ)** - This is the fair treatment and meaningful involvement of all people - regardless of race, color, national origin, or income - in the development, implementation, and enforcement of environmental laws, regulations, and policies.

**Facility Evaluation** - An inspection of a facility to confirm the release or imminent threat of release of hazardous substances, to develop information to evaluate the threat to public health and/or the environment, and to determine the relative priority of a facility.

**Facility Identification** - The identification of facilities using the existing reporting requirements for release of hazardous substances, complaints from the public and reports from other agencies or parties.

**Feasibility Study (FS)** - A detailed evaluation of alternatives for cleaning up a site. A feasibility study follows the remedial investigation phase.

**Geographic Information System (GIS)** - This system electronically manages geographically referenced data. Through GIS, such data can be displayed, assembled, stored, and manipulated, and is frequently displayed in a map format. Examples of the use of GIS include county boundaries, land use, and pollution-monitoring locations.

**Hazard Ranking System** - This is the principle screening tool used by USEPA to place waste sites on the National Priorities List (NPL). It is a numerically based screening system that uses information from initial, limited investigations - the preliminary assessment and the site inspection - to assess the relative potential of sites posing a threat to human health or the environment.

**Heavy Metals** - Metallic elements with an atomic weight greater than sodium.

**Hydrocarbons** - Chemical compounds that consist entirely of carbon and hydrogen.

**Identification and Notification of Potentially Responsible Parties (PRPs)** - Upon site identification, the Department will initiate actions to identify and notify the PRPs associated with a facility where a release or imminent threat of a release has been confirmed.

**Initial Investigation** - An initial investigation will 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.

**Inorganic Compound** - Generally encompasses elements and substances that do not contain carbon.

**Interim Action** - An action which may be required at any time before the selection of final remedial action to prevent, minimize, or mitigate harm to public health and/or the environment.

**Lagoon** - A shallow pond where sunlight, bacterial action, and oxygen work to purify wastewater.

**Landfill** - A disposal facility where waste is placed in or on land.

**Leachate (n)** - The liquid that trickles through or drains from waste, carrying soluble components from the waste. Leach, Leaching (v.t.) - The process by which soluble chemical components are dissolved and carried through soil by water or some other percolating liquid.

**Letter of Agreement** - A letter, in contractual form, that commits the signing party to demonstrate that any groundwater contamination on his property has an off-site source. In exchange for this demonstration, the Department agrees not to hold the property owner liable for the groundwater contamination.

**Maximum Contaminant Level (MCL)** - The maximum permissible level of a contaminant in water delivered to any user of a public system. MCLs are enforceable standards.

**Migration** - The movement of oil, gas, contaminants, water or other liquids through porous and permeable rock.

**Monitor Well** - 1) A well used to obtain water quality samples or measure groundwater levels. 2) A well drilled at a hazardous waste management facility or Superfund site to collect ground-water samples for the purpose of physical, chemical, or biological analysis to determine the amounts, types, and distribution of contaminants in the groundwater beneath the site.

**National Contingency Plan (NCP)** - Also known as the National Oil and Hazardous Substances Pollution Contingency Plan, is the federal regulation required by Section 105 of the Comprehensive Environmental Response, Compensation and Liability Act that provides the organizational structure and procedures for preparing and responding to releases of hazardous substances into the environment.

**National Priorities List (NPL)** - USEPA's list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under Superfund.

**Non-Responsible Party (NRP)** - Parties, including future property owners, who did not contribute to the contamination at a site and are not liable for costs related to response actions.

**Occupational Safety and Health Administration (OSHA)** - A Federal agency whose goals are to save lives, prevent injuries, and protect the health of America's workers. Staff establishes protective standards, enforces those standards, and reaches out to employers and employees through technical assistance and consultation programs.

**Operation and Maintenance (O&M)** - These activities protect the integrity of a Superfund site's cleanup plan. O&M measures are initiated by the Division after cleanup objectives have been reached, and the site is determined to be operational and functional.

**Organic Compound** - Generally encompasses substances that contain carbon.

**Operable Unit (OU)** - A portion of a Superfund site that is addressed separately from the rest to allow for easier management or a more timely response.

**Plume** - A body of contaminated groundwater flowing from a specific source.

**Potentially Responsible Parties (PRPs)** - Parties are individuals, companies, owners, or any other party who may have contributed to the contamination at a Superfund site and are liable for payment of costs related to response actions.

**Preliminary Assessment (PA)** - The process of collecting and reviewing available information about a known or suspected hazardous waste site or release.

**Record of Decision (ROD)** - A public document that explains which cleanup alternative(s) will be implemented at a contaminated site. It includes the official documentation of the cleanup technology that will be implemented.

**Recovery Well** - A well used to reclaim or capture contaminated groundwater.

**Remedial Action (RA)** - The implementation of the remedy outlined in the Record of Decision for a contaminated site.

**Remedial Design (RD)** - The phase of remediation that follows the selection of a remedy and includes development of engineering drawings and specifications for a site cleanup.

**Remedial Investigation (RI)** - Process of collecting data necessary to adequately characterize the site for the purpose of developing and evaluating remedial alternatives.

**Remedial Investigation and Feasibility Study (RI/FS)** - Its purpose is to assess site conditions and evaluate alternatives to the extent necessary to select a remedy.

**Remediation** - The process of providing a remedy to cleanup a site.

**Resource Conservation and Recovery Act (RCRA)** - protects human health and the environment from the potential hazards of waste disposal, conserves energy and natural resources, reduces the amount of waste generated, and ensures that wastes are managed in an environmentally sound manner.

**Runoff** - The discharge of water over land into surface waters. It can carry pollutants from the air and land into receiving waters.

**Safe Drinking Water Act** - This Act protects the quality of drinking water in South Carolina and the U.S. This law focuses on all waters actually or potentially designed for drinking use, whether from above ground or underground sources.

**Scope of Work** - A general description of the work intended at a site. It includes the media to be sampled and the constituents analyzed for, but not necessarily location and sample number.

**Sediment** - The layer of soil, sand, and minerals at the bottom of surface waters (such as streams, lakes and rivers) that absorb contaminants.

**Site Inspection/Investigation (SI)** - The collection of information from a Superfund site to determine the extent and severity of hazards posed by the site. It follows and is more extensive than a preliminary assessment.

**Sludge** - Semi-solid residues from industrial or water treatment processes that may be contaminated with hazardous materials.

**Sparging** - Injection of air below the water table to strip dissolved volatile organic compounds and/or oxygenate ground water to facilitate aerobic biodegradation of organic compounds.

**Sump** - A pit or tank that catches liquid runoff for drainage or disposal.

**Surface Water** - All water naturally open to the atmosphere (rivers, lakes, reservoirs, ponds, streams, impoundments, seas, estuaries, etc.)

**Toxicity Characteristic Leaching Procedure (TCLP)** - A laboratory test to determine whether a material must be handled as a hazardous waste.

**Treatment, Storage and Disposal Facility (TSDF)** - A facility where a hazardous substance is treated, stored, or disposed. TSD facilities are regulated by USEPA and the Department under RCRA.

**Trichloroethylene (TCE)** - A stable, colorless liquid with a low boiling point that has many industrial applications, including use as a solvent and metal degreasing agent.

**Underground Storage Tank (UST)** - A tank and any underground piping connected to the tank that is located at least partially (10%) underground and designed to hold gasoline or other petroleum products or chemicals.

**Up gradient** - An area or direction that is topographically and/or hydraulically higher than contaminated areas and, therefore, are not prone to contamination by the movement of polluted groundwater.

**Volatile Organic Compounds (VOCs)** - VOCs are made as secondary petrochemicals. They include light alcohols, acetone, trichloroethylene, perchloroethylene, dichloroethylene, benzene, vinyl chloride, toluene and methylene chloride. These potentially toxic chemicals are used as solvents, degreasers, paint thinners and fuels.

**Voluntary Cleanup Program** - The State program designed to provide incentives for parties to voluntarily conduct response actions at sites by providing liability protection and/or covenants not to sue.

**Wetlands** - An area that is regularly saturated by surface or groundwater and, under normal circumstances, is capable of supporting vegetation typically adapted for life in saturated soil conditions.

## Contact Information for the Site Assessment & Remediation Program

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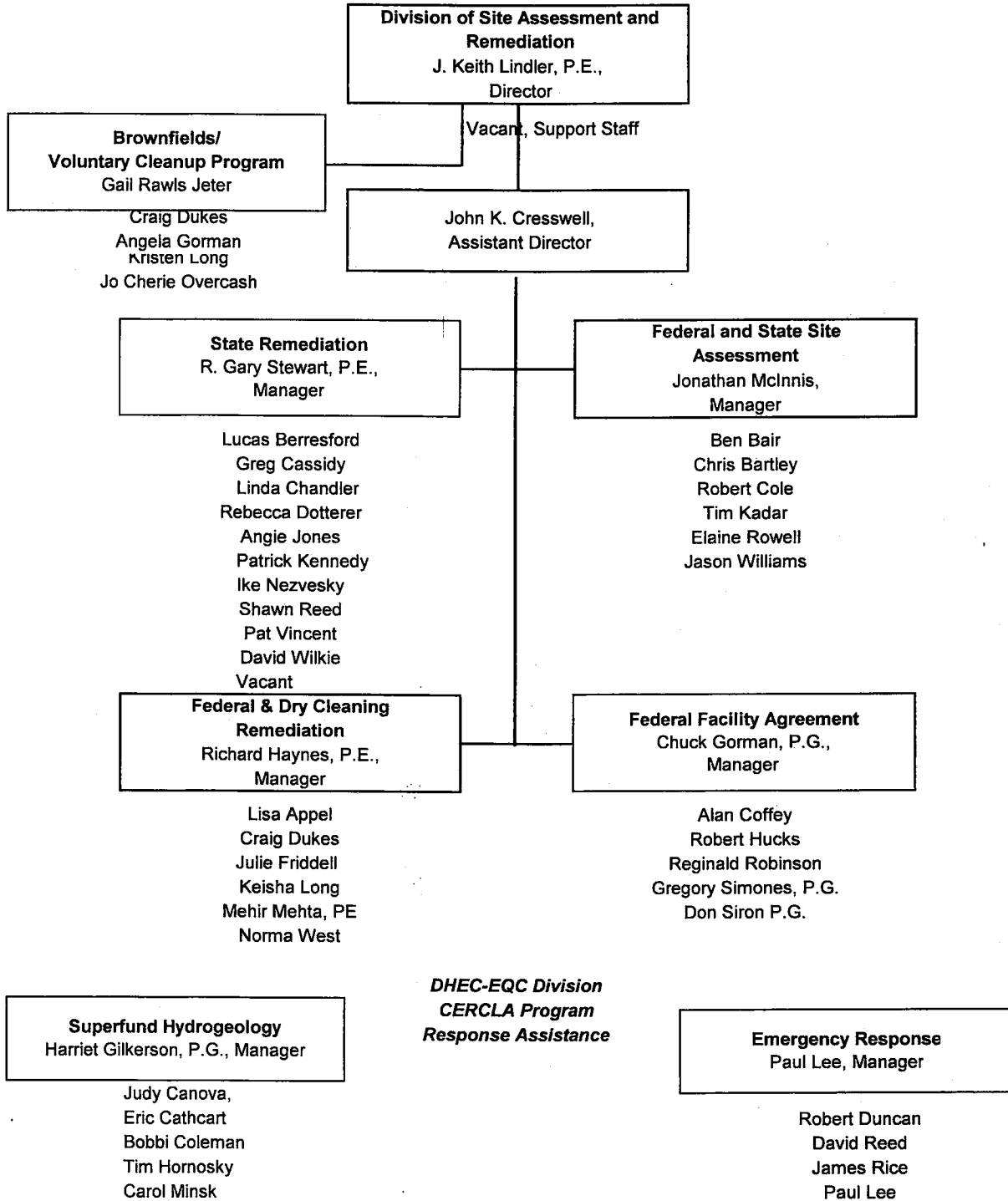
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# Organizational Chart





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Many people contributed to the compiling and editing of this Annual Report. The Department would like to specifically thank the following people for their contributions:

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 David Wilkie                                 Cost Recovery Investigations & Oversight Billing  
 Rebecca Dotterer                            Site Cost Figures
- **Editorial Oversight:**  
 Gary Stewart  
 Pat Vincent

The Division could not have completed this Annual Report without the assistance of all those who work in the Division of Site Assessment and Remediation, Superfund Hydrogeology Section, and the Emergency Response Section, as well as others who work within the Department. The Division is not only responsible for actions taken in this report, but also is responsible for other tasks not associated with South Carolina's Hazardous Waste Contingency Fund. We appreciate the dedication and hard work that staff gives throughout the year to make our Division a success, as well as providing a cleaner environment and quality of life for all South Carolinians to work and live.

**SOUTH CAROLINA DEPARTMENT OF HEALTH AND  
ENVIRONMENTAL CONTROL**



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