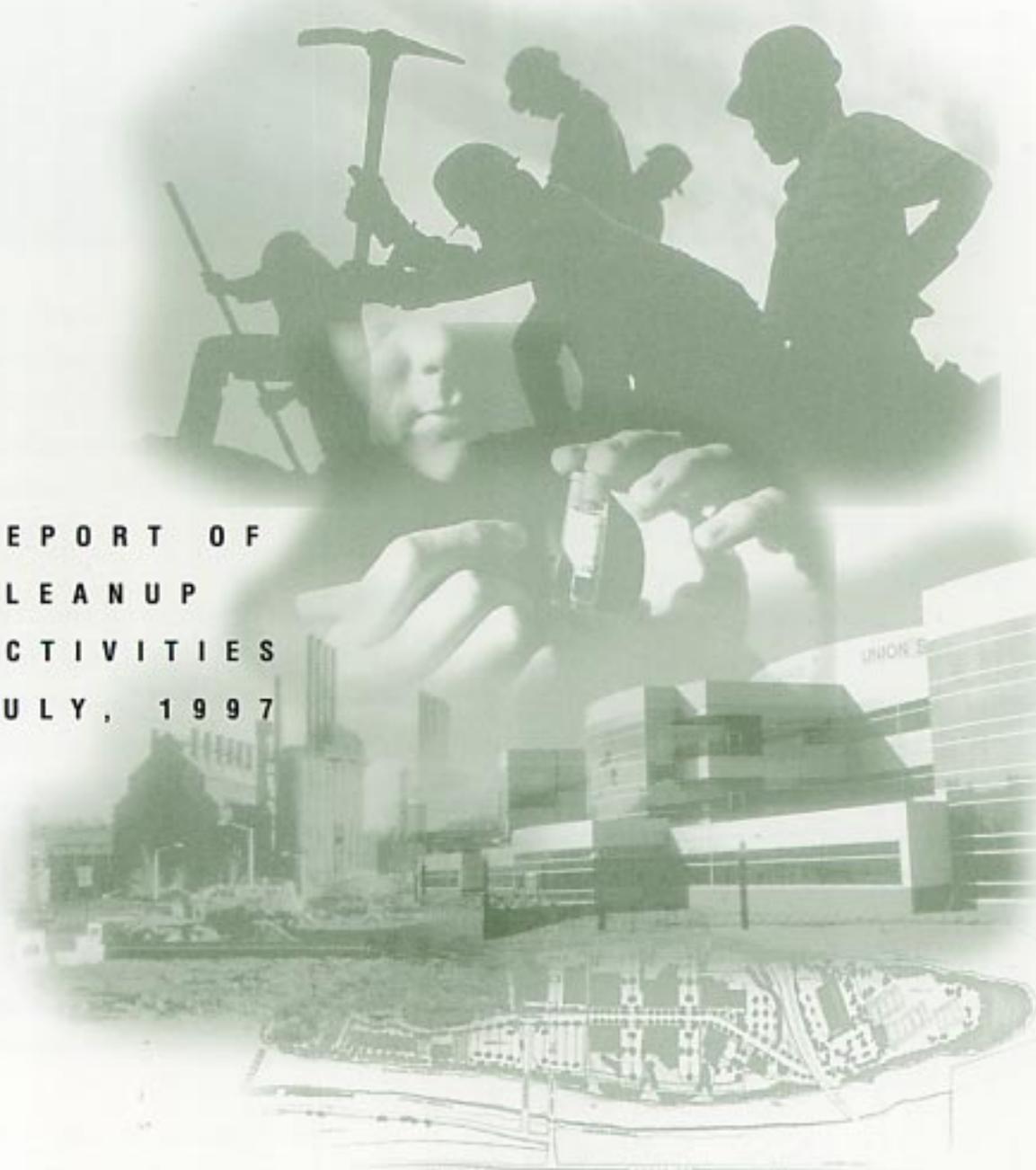


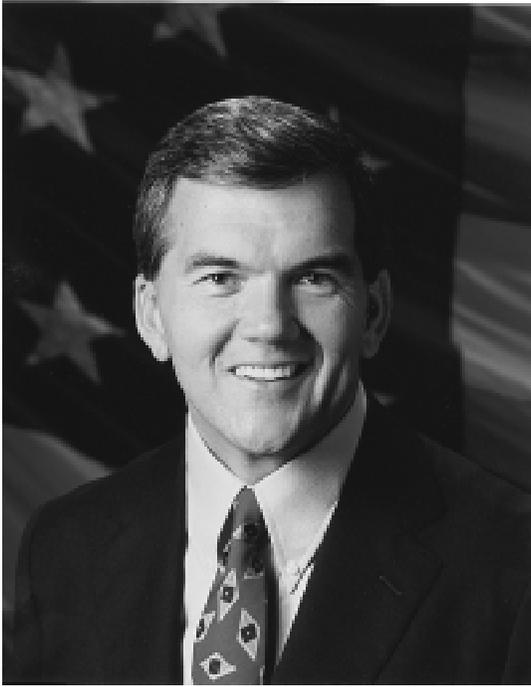
Pennsylvania's Land Recycling Program



REPORT OF
CLEANUP
ACTIVITIES
JULY, 1997

Tom Ridge, Governor
Commonwealth of Pennsylvania

James M. Seif, Secretary
Department of Environmental Protection



As Governor, I'm proud to say that Pennsylvania is on the move and changing before our eyes. We have cut business taxes, slashed red tape and are nurturing our already vibrant technology community.

Pennsylvania's Land Recycling Program is about change. In May 1995, I signed the bills that established the Land Recycling Program as a national model for the reuse of industrial sites. At that time, I described the program as "simply a case of government making sense." Today, I think the program's track record speaks for itself. In just over two years, close to 300 sites have entered the program and we've successfully completed more than 100 cleanups statewide.

The streamlined approval process, funding assistance and protection for lenders and other innocent landowners involved in cleanups have

helped us remediate these Land Recycling sites and make them safe. At the same time, we've put these sites to productive use and created new jobs.

You may have heard of the many great business success stories, like the redevelopment of the Industrial Plaza of York, which won the prestigious Phoenix Award at this year's International Industrial Site Recycling Conference. Or, perhaps you've heard of the partnership between Bethlehem Steel Corporation and the Smithsonian Institution to form an Industrial Heritage Museum, the first of its kind in our nation.

The following report will take you on a journey through time from an era not so long ago when Pennsylvania was a bustle of industrial activity to our Commonwealth of today — a Pennsylvania that is more economically and environmentally vital than ever before.

I now invite you to read about the extraordinary results this program has demonstrated in just two years. And I invite you to contact DEP to find out how your company and community can participate in the Land Recycling Program and share in our success.



As Secretary of the Pennsylvania Department of Environmental Protection, I am proud to present the accomplishments in this *Report of Cleanup Activities*.

The Land Recycling Program's achievements in the past two years have been outstanding. We have blazed new trails and set the standard for other states undertaking contaminated site cleanup programs. We had a clear goal in mind and we have exceeded those expectations.

The results are impressive:

- We have initiated almost 300 cleanups and 100 sites have been completed.
- We have used sound science to establish cleanup standards that are realistic enough to promote the reuse of contaminated sites, yet protect public health and the environment.
- We have streamlined the process for remediating industrial sites by setting clear endpoints.
- We have the only state program that provides a combination of statutory liability release, standardized procedures, realistic goals, cleanup options and funding assistance.

- We offer the resources, such as funding and liability release, that help businesses succeed, putting these former industrial sites back on the tax rolls and bringing new jobs to Pennsylvania.

We are especially proud that we've been able to accomplish so much in such a short period of time, while making our environment a safer and cleaner place to work and live.

Our employees have fostered the Land Recycling Program's success with dedication, professionalism, enthusiasm and a problem-solving attitude.

Although we have initiated and accomplished a great deal, there is more to be done to improve the quality of life and economic stability of our communities while enhancing environmental quality. This will, however, require that we break tradition and establish a new paradigm for growth and community development. We must continue to investigate ways to achieve sustainable development, to provide incentives that encourage redevelopment of brownfields and discourage sprawl and loss of greenfields.

Open space should be protected and community viability enhanced. As a Commonwealth, we must pursue land use patterns that will reduce the cost of services and protect and conserve air, water and land resources, while cultivating jobs and a vital economy.

I challenge all local government officials to strike this course and I have asked our newly created 21st Century Environment Commission to provide vision for these and other environmental challenges facing us in the next century.

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Pennsylvania's Land Recycling Program

What is the Land Recycling Program?

The Pennsylvania Department of Environmental Protection's Land Recycling Program turns brownfields into job-producing business while preserving greenspace. The program streamlines the process for remediating former industrial sites. In just over two years, the Land Recycling Program has demonstrated outstanding results. More than 100 sites have been remediated and over 200 sites are currently being remediated through the program.

The Land Recycling Program is based on three legislative acts that Governor Tom Ridge signed into law on May 19, 1995 — Act 2 is the Land Recycling and Environmental Remediation Standards Act; Act 3, the Economic Development Agency, Fiduciary and Lender Environmental Liability Protection Act; and Act 4, the Industrial Sites Environmental Assessment Act. Act 2, the primary piece of the legislative package, became effective on July 18, 1995.

The Land Recycling Program is a keystone of the Commonwealth's new programs and policies that are making Pennsylvania a great place to do business. Slashed red tape and dismantled bureaucracy are making it easier and more economically feasible for businesses to clean up these contaminated sites and put

them to productive uses — thus creating new jobs while making the environment safer.

Pennsylvania is the only state with such a vigorous program that provides a statutory liability release, standardized procedures, realistic goals, cleanup options and funding assistance. These features destroyed the barriers that stood in the way of previous remediation programs.

Before the establishment of the Land Recycling Program, environmental cleanup policies required that contaminated sites be restored to "pristine" conditions — a standard which was either prohibitively expensive or technically unattainable. State laws held current owners responsible for cleanup, even though contamination may have been caused by previous owners. As a result, it became more economical to abandon a site than restore it, forcing the development of uncontaminated farmland and open space.

DEP's Land Recycling Program has three purposes:

- 1. To make contaminated sites safe based on sound science*
- 2. To return these sites to productive use*
- 3. To preserve farmland and greenspace*

Cornerstones of Land Recycling

The four cornerstones of the Land Recycling Program are uniform cleanup standards based on health and environmental risks, standardized review procedures, releases from liability and financial assistance.

Uniform Cleanup Standards

Act 2 establishes environmental remediation standards to provide a uniform framework for cleanups. Land recyclers can choose from three types of cleanup standards: background standard, statewide health standard and site-specific standard. The special industrial area standard is available for certain sites and certain people. This provides new direction for a more reasoned, scientifically-based blueprint for site remediation based on the intended use of the site.

Standardized Review Procedures

Act 2 describes the submission and review procedures to be used at sites using each of the three types of cleanup standards, thus providing a uniform process for all sites statewide. Uniformity will make it easier for companies and consultants to prepare submissions and follow through the steps necessary to remediate a site.

Releases From Liability

Act 2 provides releases from liability for owners or developers of a site that has been remediated according to the standards and procedures in the Act. Act 3 extends liability

protection to financiers, such as economic development agencies, lenders and fiduciaries (those who act as a trustee, executor or administrator for the benefit of another person). These provisions are intended to reduce the liability concerns that may inhibit involvement with contaminated or abandoned sites.

Financial Assistance

Act 2 establishes the Industrial Sites Cleanup Fund, which is designed to help innocent parties conduct voluntary cleanups. Grants or low-interest loans can cover up to 75 percent of the cost of completing an environmental study and implementing a cleanup plan. The Department of Community and Economic Development (DCED) administers this program. Act 4 allows DCED to make grants to municipalities, municipal or local authorities, nonprofit economic development agencies and similar agencies. The grants help finance environmental assessments of industrial sites located in municipalities that DCED has designated as distressed communities. These communities are eligible for grants to conduct environmental assessments and remediation activities.

DCED has provided a total of \$5,774,036 in financial assistance to 51 projects under the funding programs authorized by the Land Recycling Program. Since the 1996 Year End Progress Report, an additional \$1,610,584 for 17 more sites has been funded. See page 28, Financial Assistance, for additional financial details. DCED can be contacted at 717 787-7120.

The program and its cornerstones have swept away significant barriers making the redevelopment of abandoned sites possible and profitable.

The Standards

Sites entering Pennsylvania's Land Recycling Program must be remediated to one of four standards. A combination of standards may be used on a single site. The standards are background, statewide health, site-specific and special industrial area. A brief description of each follows.

Background

This standard deals with contamination at a site that is not related to any release at that site. This is useful in areas where a site may have contaminated nearby properties or in areas of widespread contamination.

Statewide Health

These are medium-specific chemical concentration numbers published in a table that take into account use and non-use and residential and nonresidential factors. This standard is usually met through treatment or removal.

Site-Specific

This standard allows the remediator to consider exposure and risk factors to establish cleanup levels appropriate for the intended future site use.

Special Industrial Area

To be eligible for this standard the site must have no viable owner or must be in an enterprise zone. The person conducting the cleanup must not have contributed to the contamination at the site. All immediate, direct or imminent threats, based on the intended use of the site, must be abated.

Cleanup Report Card

In the past two years, over 100 sites have been remediated to meet one or more of the standards under the Land Recycling Program — background, statewide health, site-specific or the special industrial area standard.

A total of 264 sites have submitted formal notices of intent to clean up under the Land Recycling Program. As in the program's first year, the majority of the cleanups are being done at private — not taxpayer — expense.

Pennsylvania's Land Recycling Program clearly outperforms the federal Superfund Program. This old program spent excessive amounts of time, effort and money resulting in only a few sites actually remediated. In the past 16 years, the Superfund Program in Pennsylvania has remediated 33 of the 103 sites on the National Priority List. Ten of these sites have now been removed from the National Priority List.

See Appendix A for a list of sites remediated under the Land Recycling Program during the last year and a complete list of those sites that have given formal notice of intent to participate in the program as of July 1, 1997.

Cleanup Standards

By a wide margin, the most frequently selected cleanup standard in the Land Recycling Program was the statewide health standard (155), followed by the site-specific standard (70) and background standard (35). The special industrial standard, meant to encourage the reuse of abandoned sites with no viable owner, was selected 38 times. The tables below summarize the standards selected by region. These figures are as of July 1, 1997.

Of the 124 successful cleanups at 106 sites to date, 76 have met the statewide health standard, 18 met the background standard, 12 met the special industrial area standard and 18 the site-specific standard. Some sites picked more than one standard to meet.

LAND RECYCLING PROGRAM—TYPES OF CLEANUPS

Region	Background	Statewide Health	Site-Specific	Special Industrial
Southeast	5	28	18	6
Northeast	5	37	6	2
Southcentral	14	41	15	15
Northcentral	3	10	8	1
Southwest	2	28	18	8
Northwest	4	11	5	6
Total	35	155	70	38

ACTIONS COMPLETED AND APPROVED

Region	Background	Statewide Health	Site-Specific	Special Industrial
Southeast	3	16	8	0
Northeast	1	8	0	0
Southcentral	11	26	5	8
Northcentral	1	4	0	0
Southwest	1	19	3	0
Northwest	1	3	2	4
Total	18	76	18	12

Sites Remediated Since July 1996 " First Year Progress Report"

With the 100th site cleanup completed in the program's first two years, the Land Recycling Program's success is noteworthy. As the development of greenspace continues to be a national concern, the program's track record of reusing brownfields — while preserving precious greenspace — sets Pennsylvania Land Recycling apart from other state and federal programs. The following are brief case histories of sites cleaned up in the past year under Pennsylvania's Land Recycling Program. The sites are listed by county.

Sun Pipeline

In September 1993, an underground gasoline pipe owned by Sun Pipeline was ruptured during golf course construction. The rupture resulted in product release along Lobell Road, Abbottstown, Adams County. Approximately 26,000 gallons of gasoline flowed down-gradient in an open excavation trench and was eventually contained by an earthen berm. Approximately 17,600 tons of soil was removed from the trench, along with 4,200 gallons of free product. The release occurred about 1,500 feet from a water supply well operated by the Borough of Abbottstown. The soil remediation was completed in June 1994. Following extensive testing it has been determined that the quality of water available from the well was not impaired by the gasoline release from the damaged pipeline. The site meets the statewide health standard. Contact John Clarke, 717 657-4592.

Gettysburg Railroad Yard

Gettysburg Railroad in Gettysburg Borough, Adams County, was a former railroad maintenance facility that has been vacant for the past four years. Soil contaminated with petroleum product was treated by low temperature thermal desorption last year. The cleanup cost about \$50,000. The property will be used to expand parking facilities at Gettysburg College. Contact Scott Cox, 717 657-4592.

Etna Industrial Park

Janus Inc. was able to move forward with plans to consolidate its operations to the former Spang facility in Etna, Allegheny County, now owned by Joseph V. Salvucci. Because the site was built on a slag fill and is situated next to a stream, the cleanup had to deal with naturally occurring metals that exceeded the statewide health standard while demonstrating that the contaminants did not pose a risk to the receiving stream. Contact John Matviya, 412 442-4091.

Girman Property

John Girman's property was the site of a gasoline service station in Monroeville, Allegheny County. It was closed in the early 1980s and underground storage tanks were removed a few years later. A 1995 field investigation found that the area of the former gas station was contaminated with PHCs and BTEX. In 1996, about 50 cubic yards of contaminated soil was excavated and disposed. Contact John Matviya, 412 442-4091.

Constantin Pontiac

The Constantin Pontiac site in the East Liberty section of Pittsburgh, Allegheny County, was purchased by Artspace Projects, Inc., a partnership of artists and architects, who made the site a parking lot for an adjacent multi-family residential building. Soil and groundwater contaminated with BTEX and total petroleum hydrocarbons were remediated to the statewide health standard. Contact John Matviya, 412 442-4091.

M&S Building Parking Lot

The NIR for the M&S Building Parking Lot indicated contaminated soil. However, the contamination found was under statewide levels, and therefore, no cleanup action was taken. Contact John Matviya, 412 442-4091.

Beazer East Inc.

In 1989, Koppers Industries vacated its Verona Science and Technology Center in Verona Borough and Penn Hills Township, Allegheny County. The 8-acre site included several areas of soil contaminated with mercury and asbestos. Koppers used the facility for research and testing of its various wood treating and coating products. Pearson Inc. was interested in using the property and its 70,000 square feet of building space for industrial purposes and signed an agreement taking responsibility for the asbestos-containing materials. The seller, Beazer East, was able to obtain an Act 2 release by excavating soils and using pathway elimination to achieve the site-specific standard. Contact John Matviya, 412 442-4091.

Trumbull Corporation

Anastaios Corporation purchased property in West Mifflin Borough, Allegheny County, to use in its bridge painting and rehabilitation business. The site was once owned and occupied by West Mifflin Construction, an affiliate of Trumbull Corporation, and it contained petroleum-contaminated soils. About 40 cubic yards of contaminated soil was excavated for the site to meet the statewide health standard. Contact John Matviya, 412 442-4091.

Ashland Chemical Company

Ashland Chemical Company has received a site-specific approval for its chemical refinery in Freedom Borough, Beaver County, after remediating soils contaminated with solvents and BTEX. A number of tanks were removed and a system was put in place to treat the contaminated soils. Contact John Matviya, 412 442-4091.

Country Manor Estates

Country Manor Estates was a family-owned restaurant in Alsace Township, Berks County. Lead contamination was found in the soil and BTEX contamination was found in the groundwater. The soils were tested and met the statewide health standard. The groundwater met the background standard. The owner has received a release from liability. Contact John Clarke, 717 657-4592.

Van Brunt & Sons Inc.

Van Brunt & Sons is a truck terminal on a 9-acre site in Maxatawny Township, Berks County. Soil contaminated with waste oil, hydraulic fluid and lubricating oil was found. The company

removed the soil and underground storage tanks. The final report, demonstrating the attainment of the statewide health standard, was approved on December 10, 1996. Contact Piyush Gandhi, 717 657-4592.

Reading Station Outlets

From 1896 until 1971, the Reading Station Outlets, located in the City of Reading, Berks County, housed a railroad repair facility. The building stood vacant for more than 20 years and groundwater at the site was contaminated with liquid diesel fuel, chlorinated solvents and BTEX. BTEX was also found in soils. A plastic liner was placed over buried soils in the vicinity of an underground storage tank and the entire area was capped with a parking lot. The remediations cost approximately \$600,000. In January 1997, the final report, which stated that the cleanup had attained the standard for a special industrial area, was approved. In 1992, a retail outlet mall opened in this former industrial area, creating about 125 jobs. Contact John Clarke, 717 657-4592.

Buck Run Road Property

The Buck Run Road oil spill occurred when an oil truck owned by C.D. Schneck was filling a residential tank in South Heidelberg Township, Berks County. A broken valve on the truck allowed approximately 200 gallons of home heating oil to contaminate the soils in the wooded residential area. About 3,000 cubic feet of contaminated soil was excavated and disposed of in a properly permitted facility. The final report showing that the area had been cleaned up to the statewide health standard was approved in February 1997. Contact Scott Cox, 717 657-4592.

A Plus Printing

A Plus Printing is a commercial sign printing operation that has been located in the City of Altoona, Blair County, since 1992. From the turn of the century until 1951, the facility was used for ice production. From 1951 until 1992, it was utilized by a beer distributor. Both the soil and the groundwater were contaminated with naphthalene, benzene, toluene, ethyl benzene, total xylene, m-p xylene and o-xylene. The background standard was attained by documenting that the contamination was caused by a different property. The final report was approved on April 16, 1997. An estimated \$11,000 was spent on this cleanup. Contact Piyush Gandhi, 717 657-4592.

Krajack Tank Lines

Krajack Tank Lines was responsible for a toluene leak after a hazardous materials tank truck overturned in LeRoy Township, Bradford County. The accident occurred on pasture land that was part of the Steve Jennings farm. The toluene infiltrated the soil in the floodplain of an unnamed tributary to Towanda Creek and emerged as discharge seepage into the tributary. The soil and groundwater cleanup included the installation of underflow dams, temporary stream relocation, free product recovery and groundwater pump-and-treat. The site was remediated to the statewide health standard. Contact Michael Welch, 717 321-6525.

Tri-Lite Plastics

Tri-Lite Plastics in Falls Township, Bucks County, is a molded plastic parts manufacturer that operates a plant within the Fallsington Industrial Park in Falls Township. Mineral oil used as hydraulic oil by a former tenant was the

probable source of the petroleum hydrocarbons (PHCs) contaminating soil and groundwater beneath the building leased by the plastics company. The building owner, Kasmer Kalpin Partnership, was able to remove a concrete trough in a vacant portion of the building to excavate the contaminated soil without interrupting Tri-Lite's manufacturing process. The excavated soils were properly disposed off-site. PHC levels measured in the remaining soils were low enough for DEP to confirm on May 19, 1997 that cleanup of soil and groundwater was completed. In addition, release from liability was granted for specific compounds meeting the statewide health standard for the soil-to-groundwater pathway. A new concrete floor laid over the remediated area made it available for Tri-Lite to lease as additional warehouse space. Contact Lauren Mapleton, 610 832-5950.

Lincoln Plaza Shopping Center

The Lincoln Plaza Shopping Center in Langhorne, Bucks County, was the site of a spill of transformer oil in August 1996. Fifty tons of contaminated soil were excavated and disposed, allowing the property to attain the statewide health standard for soil. Contact John Alex Reyda, 610 832-5950.

Azar Residence

The Azar Property in New Britain Township, Bucks County, is a residential property discovered to have a tank storing No. 2 home heating oil leaking into the ground near the house. The tank was removed, but fuel had already seeped into the ground, contaminating soil and groundwater. Contaminants of

concern included numerous volatile organic and polyaromatic hydrocarbons. To correct the damage, the contaminated soil was removed for off-site disposal and the affected groundwater was pumped for treatment. Monitoring wells installed beyond the perimeter of the spill gave assurance that groundwater moving toward neighboring domestic wells was not contaminated. The property owners were able to demonstrate that remediation of soil and groundwater to the statewide health standard was achieved. DEP granted release from liability and a deed notice was not required. Contact Lauren Mapleton, 610 832-5950.

West Chester Manufactured Gas Plant

A 2-parcel PECO Energy property in West Chester Borough, Chester County, contained manufactured gas plants in which illumination gas was manufactured from coal, resulting in contaminated soil and groundwater. Vacant since 1988, the property was remediated and, in the Spring of 1996, the property was restored to an urban pocket park where children cool off and play in sprinklers during the summer. Both statewide health and site-specific standards were attained for the soil and modeling was used to demonstrate that the groundwater contamination on the site did not pose a threat to drinking water wells. Contact Pam Reigh, 610 832-5950.

Santos Auto Center

Santos Auto Center in Chester Borough, Chester County, an auto repair shop which formerly included a gas station, operates at this small commercial property. Both heating oil and gasoline from storage tank leaks produced

petroleum hydrocarbon contamination in the soil and underlying groundwater. Remediation efforts included bioremediation and air sparging of the soil and groundwater. Bioremediation involves microorganisms that feed on petroleum compounds in the soil while air sparging involves pumping oxygen into the ground to enhance the effects of the biological activity. DEP approval of the final report provided relief from liability for soil meeting the statewide health standard and for groundwater meeting a site-specific standard. Future land uses could be residential or light commercial. Changes from the current land use may require that precautions be taken to prevent exposure to the remaining groundwater contaminants. Contact Kathy King, 610 832-5950.

Pizza Box Restaurant

Prior to its current use as a restaurant, this Pizza Box Restaurant commercial property in West Chester Borough, Chester County, was used as a gas station. Although the tanks were removed, compounds associated with leaded and unleaded gasoline as well as No. 2 fuel oil had contaminated the soil and groundwater. Site cleanup was staged on the property to allow for continuous operation of the restaurant while phasing the cleanup in the parking area. Bioremediation was employed in 1995 in combination with air sparging of the groundwater and soil. Specified soil contaminants were cleaned up to the statewide health standard. Some groundwater contaminants exceeding the statewide health standard were allowed to remain because a site-specific standard was achieved and the current land use isolates these contaminants from

human exposure pathways. Remaining groundwater contaminants are noted on the deed of the property to alert future owners of these conditions. Changes in land use may require that precautions be taken to prevent exposure to the remaining groundwater contaminants. The cleanup and deed notice enable continued operation of this commercial business in West Chester. Contact Kathy King, 610 832-5950.

Lippert Site

The Lippert Farm Tract is a 99-acre site located south of U.S. Route 11 and east of Allen Road in Carlisle Borough, Cumberland County. Historically, this site has been used as agricultural land. Sampling from an existing on-site well revealed volatile organics. The contamination is believed to have originated off-site and the source has not been located. The contamination does not affect the development of the site since the area is served by a municipal water supply. The site will be developed into a warehousing and distribution center, creating about 500 jobs. Contact Manuel Nzambi, 717 657-4592.

AMP, Inc.

The owner of the property, AMP, Inc., cleaned up a former warehousing and machine assembly site in Lower Allen Township, Cumberland County. This 6-acre Old Gettysburg Road facility has been vacant since December 1991. Approximately one-half acre of soil and groundwater was contaminated with TCE and PHC. In May 1992, soils tainted with TCE were removed from the site and PHC contaminated soils were removed in June 1993.

Groundwater remediation was initiated in November 1993. The final report demonstrating compliance with the statewide health standard was approved in February 1997. The future use of this site has not yet been determined. Contact John Clarke, 717 657-4592.

Hershey Amoco

In February 1997, Hershey Amoco in Derry Township, Dauphin County, attained the site-specific cleanup standard. Both the soil and the groundwater at this former service station were impacted by unleaded gasoline. Pump-and-treat technology was used to remediate the groundwater and impacted soils were excavated and properly disposed. This property will be utilized in the Derry Township road expansion and improvement project. Contact Bill Noll, 717 657-4592

PP&L Hershey Service Center

The PP&L Hershey Service Center in Derry Township, Dauphin County, has been vacant for the past five years and has been for sale. The 1-acre site had PCB-contaminated soil. In March 1996, the contaminated soil was excavated. The cleanup cost was estimated at \$130,000 and final approval for the statewide health standard was received in September 1996. The property is currently for sale. Contact Scott Cox, 717 657-4592.

Harrisburg Steam Works Ltd.

Harrisburg Steam Works, which employs 40 people, has generated steam/electric since 1848 at its City of Harrisburg, Dauphin County, location. The soils of this almost 6-acre facility were contaminated with cadmium, chromium, lead, zinc and benzo(a)pyrene. The

background standard was attained for the metals and semi-volatiles. The statewide health standard for chromium was met. There was no active remediation necessary. The company spent \$50,000 to receive its release from liability on May 5, 1997. Contact John Clarke, 717 657-4592.

Super Rite Foods Inc.

Super Rite Foods Inc. is located on a 40-acre property along Wildwood Lake in the City of Harrisburg, Dauphin County. The facility has been a packaged food warehouse and distribution center since 1984. While working on the property, the company found several areas over a 2-acre portion that contained old leaded grease drums. The drums were removed and soil tested. The remediation cost approximately \$50,000. Contact John Clarke, 717 657-4592.

Hervitz Packing Company

The Hervitz Packing Company site in Harrisburg, Dauphin County, has been vacant for 17 years. This 1.5-acre site was formerly home to a meat processing and packing plant. The site contained a variety of hazardous wastes and hazardous materials, as well as groundwater and soil contamination from a leaking underground storage tank. The final report, which was approved in September 1996, demonstrated that the site met the cleanup standard for a special industrial area. The cost of the cleanup was approximately \$30,000. There was interest shown by a potential purchaser, but a sale was never finalized. Contact Bill Noll, 717 657-4592.

All Star Chrysler Plymouth
All Star Chrysler Plymouth in Swatara Township, Dauphin County, received approval of its final report in August 1996. Solvent and PHC contamination was found on the property in the area of the hydraulic lift and oil and water separators. Remediation consisted of soil removal from these areas and from around one underground storage tank. The project cost \$125,000. Contact Scott Cox, 717 657-4592.

James Casner Property
The James Casner Property is a grocery store, gas station and auto repair garage. The site is located in Washington Township, Dauphin County. Regulated tank issues at the site dictated that corrective action regulations be implemented. Therefore, NIR and other administrative requirements of Act 2 were not applicable. Upon completion of the cleanup, the company received a release from liability. Contact Bill Noll, 717 657-4592.

Gabe-Staino Chrysler-Plymouth
Chrysler Realty Corporation cleaned up a property in Chadds Ford, Birmingham Township, Delaware County, before turning over ownership to the Gabe-Staino Chrysler-Plymouth car dealership. Industrial solvents from past auto repair activities had seeped from an oil/water sump drain and contaminated the soil of an old septic system leach field. In the spring of 1996, Chrysler Realty Corporation excavated the septic system and the surrounding soil to remove the contaminants for proper disposal off-site. By July 1996, DEP was able to grant relief from liability for solvents and petroleum-related compounds in soil, which met the statewide health standard.

The dealership remained in operation during the cleanup. In the future, the property could be sold for other uses without a deed notice. Contact Walter Payne, 610 832-5950.

Claymont Development Property
The Claymont Development Company Property in Birmingham Township, Delaware County, was used for truck maintenance. The cleanup of the property, which began and ended in September 1996, involved complete excavation of petroleum contaminated soils around a former vehicle maintenance area. The site was cleaned to the statewide health standard. Contact Walter Payne, 610 832-5950.

Meadow Run Site
Meadow Run in Concord Township, Delaware County, is approximately 60 acres of property proposed for residential development. It includes an abandoned railroad right-of-way slated to become a designated open space portion of a planned subdivision. The site environmental assessment work included a risk assessment of exposure to potential contaminants in the open space area. DEP granted relief from liability because the site-specific standard was met for arsenic and benzo(a)pyrene along the railroad right-of-way. This will be specified in a deed notice for the open space portion of the property. Contact John Alex Reyda, 610 832-5950.

Delaware County Industrial Park
The Delaware County Industrial Park site in Eddystone Borough involved remediation of a vacant portion of the park. The site-specific standard was met by placing a soil cap on a portion of the site. Contact Walter Payne, 610 832-6950.

Coca-Cola Bottling Company
The Coca-Cola Bottling Company property at Folcroft in Delaware County, was a vacant facility in a mixed industrial, commercial and residential area when the company began the site cleanup in 1996. Prior to Coca-Cola's operation of a bottling warehouse and truck depot at the 5.4-acre site, the land had been used as a terminal for fuel and bulk chemical tank trailer trucks. In anticipation of transferring the property to a prospective purchaser, Coca-Cola closed three underground storage tanks, removed solvent-contaminated soil and eliminated two drywells. Remediation of contaminated soil to the statewide health standard and the groundwater to the site-specific standard was achieved for certain solvents and petroleum-related compounds. With the relief from liability specified in the deed, the property will be sold for future commercial/industrial use, bringing jobs and new economic activity to the site. Contact George Fritz, 610 832-5950.

Mafix
Mafix, located in the City of Erie, Erie County, makes nickel electroformed products for RTM, RIM and all composite lay-ups, as well as caster maintenance on molds. Mafix wanted to expand its facility by building on a vacant adjacent lot. A soil and groundwater investigation revealed arsenic-contaminated soils and groundwater impacted with chlorinated hydrocarbons from an upgradient source. Through the use of engineering controls, the site was remediated to meet the site-specific standard. As a result of acquiring a release from liability, Mafix has built a

20,000 square-foot building and expects to double its current workforce to 50 employees. Contact Craig Lobins, 814 332-6648.

WSEE-TV Northstar TV
WSEE-TV Northstar Television Transmission Tower is a 23-acre site located in Summit Township, Erie County. Prior to 1984, the building on-site was heated by a 2,000 gallon fuel oil underground storage tank which was removed in 1987. In August 1996, the tank area was investigated, and PAHs and PHCs were detected in the soils. Contaminated soils were removed allowing the facility to meet the statewide health standard. Contact Craig Lobins, 814 332-6648.

Mt. State Bit Service, Inc.
Mt. State Bit Service, Inc. occupied property in Redstone Township, Fayette County, owned by DYNO Nobel, a manufacturer of ANFO (ammonium nitrate/fuel oil), an explosive used in the mining and road construction industries. In November 1993, officers of the Pennsylvania Game Commission discovered a release of diesel fuel oil below Mt. State Bit Services' buildings. Although some areas of the property were cleaned up, little documentation was provided. On February 7, 1997, Mt. State Bit Service submitted an NIR and a final report, indicating that its sampling in 1996 showed no excess amounts of the compounds found on the Storage Tanks' Closure Guidance "Short List" for a limited area of the property. Groundwater was not investigated. The final report was approved for only the short list of compounds in the specific area of investigation. Contact John Mativya, 412 442-4091.

Van Fleet Residence

The Van Fleet Residence in Benton Township, Lackawanna County, is a residential remediation project for which the background standard was chosen for attainment. The soil and groundwater contamination at this site occurred as a result of a 1992 residential heating oil tank release where BTEX and PHCs were identified as the constituents of concern. Contact Joseph Brogna, 717 826-2511.

Elliot Company

The Elliot Company, in the City of Scranton, Lackawanna County, was found to have soils contaminated with lead, BTEX and petroleum hydrocarbons. Five leaking tanks and associated impacted soils were all removed circa 1991 and the site owner later sought an Act 2 liability waiver. A conditional approval letter of the final report was sent in July 1996. The virgin fuel tanks received a waiver of liability, but the final report did not adequately demonstrate compliance with the statewide health standard for the waste products tanks or the lead-contaminated soil. Contact Joseph Brogna, 717 826-2511.

Poly Hi Solidur

The Poly Hi Solidur/Menasha Corporation located in Scranton, Lackawanna County, had soil that was contaminated with petroleum hydrocarbons as the result of industrial processes. The company demonstrated attainment of the statewide health standard in the final report and an approval letter was sent in October 1996. Contact Joseph Brogna, 717 826-2511.

Pennfield Corporation

A chicken processing plant located in East Hempfield Township, Lancaster County, received a release from liability under Act 2. The Pennfield Corporation cleanup was done under the storage tank corrective action regulations. NIR and other administrative requirements of Act 2 were not required. Contact Cheri Campbell, 717 657-4592.

Reese Metal Products Corporation

Reese Metal Products Corporation is a manufacturing facility in East Lampeter Township, Lancaster County. Soil and groundwater contamination of BTEX and solvents was discovered at the 50-acre site. In February 1993, soil remediation began. About 700 tons of soil was cleaned by vapor extraction to the statewide health standard. The cleanup costs exceeded \$235,000. The property and active facility were sold in December 1996 to a foreign investor. Future plans for the facility are unknown. Contact Cheri Campbell, 717 657-4592.

CBS Playskool

In November 1996, CBS Playskool in East Lampeter Township, Lancaster County, received approval on its final report for the remediation of Lagoon Y. The former waste lagoon held electroplating waste from 1965 to 1969. Heavy metals were found in the soil and groundwater. Cleanup levels for this lagoon were determined by a site-specific risk assessment. Part of this facility has been occupied by Lebanon Seaboard Corp. and Great Expectations since January 1996. The former lagoon will be used as a storage space for these

companies. The cleanup cost approximately \$500,000. The rest of the site remediation is ongoing. Contact Scott Cox, 717 657-4592.

Haddad Shoe Factory

The Haddad Shoe Factory in Lancaster, Lancaster County, is located in the Lancaster City Enterprise Zone. The property was used as a shoe factory, gasoline service station and lumber yard and has been vacant since 1984. Remediation of soil and groundwater began in 1992 and was completed in 1995. A realty company, current owners of the property, received grants from Lancaster City, as well as federal grants for remediation, restoration of the fire-damaged building, paving and landscaping. The property will be used for an office complex and a parking lot. Contact Cheri Campbell, 717 657-4592.

Elbys Big Boy 3331

Elbys Big Boy Restaurant found BTEX and PHC in the groundwater and soil at this Manheim Township, Lancaster County, property. The contamination is believed to come from another property. The site met the background standard. No remediation was needed. The final report for this site was approved in October 1996. Contact John Clarke, 717 657-4592.

Lancaster County Fireman's Association Training School

Lancaster County Fireman's Association Training School in West Lampeter Township had PHCs in the soil and solvents in the groundwater. The 23-acre fire training school has been vacant since 1995. The remediation of the petroleum hydrocarbon contaminated

soil to the statewide health standard was completed and approved in August 1996. The site will be used for farming. Contact John Clarke, 717 657-4592.

Ono Service Center

Ono Service Center is located at U.S. Route 22 and Lincoln School Road in East Hanover Township, Lebanon County. The facility provides car and truck refueling support, truck maintenance and car and truck washing services. This 6-acre site also includes a public laundromat, a convenience store and restaurant. The center is in a rural area that is not served by public water or sewage systems. In 1995, an inspection of the truck maintenance building was conducted while developing a Storage Tank Management Plan. This investigation identified a floor drain system running along the center of the maintenance building. Water captured by the floor drain system was conveyed to a sump located at the southern end of the garage and was discharged to a drainfield approximately 70 feet southwest of the building. Records show this drainfield was used from 1984 to 1993. Petroleum hydrocarbon compounds were detected in the soil and the contaminated soils were removed. Groundwater samples indicated the contamination did not impact the groundwater. The facility met the statewide health standard and completed the cleanup in April 1997. Contact Manuel Nzambi, 717 657-4592.

Aqua Chem, Inc., Cleaver Brooks Division Aqua Chem, Inc. in Lebanon Township, Lebanon County, previously made boilers. Lead was found in the soil at the site. The soil with high lead levels was excavated and areas with

soil contamination in the 500 to 1000 parts-per-million range were capped in place. The site, which has been vacant since 1995, was remediated to the site-specific standard. Contact Steve Shank, 717 657-4592.

Paris Accessories Facility

The Paris Accessories Facility in the City of Allentown, Lehigh County, had soil and groundwater contaminated with solvents, BTEX components, petroleum hydrocarbons and polyaromatic hydrocarbons that were the result of former industrial processes. Remedial efforts included excavation of soils and treatment of both soils and groundwater. It is anticipated that the property will continue to be used as an assembly and distribution facility for the production of finished apparel goods. The statewide health standard was chosen for this site. Contact Joseph Brogna, 717 826-2511.

James Brown Property

The James Brown property of Kingston Township, Luzerne County, was the site of a leak from a residential heating fuel tank. It used pump-and-treat and bioremediation in an effort to comply with the statewide health standard. Contact Joseph Brogna, 717 826-2511.

Andritz Sprout-Bauer, Inc.

The Andritz Sprout-Bauer, Inc. facility is located in Muncy, Lycoming County, in an industrial/residential area on the floodplain of the Susquehanna River, about a half mile from Muncy Creek. Years of improper storage and handling of solvents and cutting oil associated with the gun drills resulted in soil and groundwater contamination. Construction of groundwater monitoring wells, demolition of the die

cell building (# 70) and removal and disposal of 15,458 tons of contaminated soils were all included in the remediation efforts. Contact Michael Welch, 717 321-6525.

City of Farrell (Sharon Steel)

The City of Farrell was contacted by a prospective purchaser interested in a 1.2-acre lot owned by the City. The site had been most recently used by Sharon Steel as a storage yard for spring steel. This site had been acquired by Mercer County through foreclosure. Soil sampling from various areas of the site revealed it is below the statewide health standard. The prospective purchaser expects to construct a fabrication facility for railroad car coupling mechanisms. Contact Craig Lobins, 814 332-6648.

Hostrander Residence

The Hostrander Residence in East Norriton Township, Montgomery County, had home heating oil stored in an aboveground tank in the garage of residential apartments. When 100 gallons of No. 2 heating oil leaked onto the concrete garage floor in January 1996, some of the shallow sub-soils beneath the garage were also contaminated. In total, 25 tons of concrete flooring and contaminated soils was removed for proper disposal off-site and 750 gallons of groundwater were pumped from the excavation area for one year until contaminants could no longer be detected. DEP issued the release from liability for the specific soil and groundwater contaminants meeting the statewide health standard. Contact Pamela Reigh, 610 832-5950.

Willow Grove Naval Air Station
Concern about a contaminated groundwater plume from the upgradient Willow Grove Naval Air Station prompted the developers of Commonwealth Corporate Center in Horsham Township, Montgomery County, to conduct an environmental site assessment of this inactive golf course in Horsham. The developers will be converting it to a corporate office complex. Sampling of the groundwater beneath the property confirmed that contaminant levels detected were similar to background measurements in groundwater for the area. The groundwater beneath the site was deemed to meet a combination of statewide health and background standards for the contaminants of concern (tetrachloroethene (PCE), methylene chloride, ethylbenzene, toluene and xylenes). The site can now be developed for any use, although precautions should be taken to prevent exposure to the contaminated groundwater. Contact James Burke, 610 832-5950.

Benson East Apartment Facility
The Benson East Apartment Facility in Abington Township, Montgomery County, includes three buildings and a parking garage supporting residential rental units and various commercial activities. The third level addition to the garage had been constructed over an abandoned 10,000 gallon tank that formerly contained No. 6 fuel oil. In order to satisfy the terms of a real estate transaction, remaining contamination from the closed tank had to be resolved. Petroleum hydrocarbons in the soil were the contaminants of concern. No groundwater was encountered during the investigation. In addition to the removal of the

tank, approximately 300 tons of soil was excavated for off-site disposal. The remaining soil was deemed acceptable for use of the site for future housing or business development. Contact John Alex Reyda, 610 832-5950.

Jade Holdings Inc.
Jade Holdings Inc., Lower Moreland Township, Montgomery County, is an industrial equipment manufacturer that sought relief from liability under Act 2. This action was necessary after the company evaluated the fate of several underground storage tanks around its 62,000-square-foot building. The tanks would otherwise be “unregulated” by DEP’s Storage Tanks Program due to their size and contents. Testing indicated that BTEX and PHCs had contaminated the soils next to the building near the tanks. The company abandoned one tank, closed one tank in place and kept one tank in service while excavating tainted soils for proper disposal off-site. Jade Holdings was able to obtain certification from DEP that the remediated areas meet the statewide health standard. Additionally, release of liability applies to those areas that meet the interim statewide health standard for non-residential soil ingestion for three gasoline-related compounds. Contact Sarah Pantelidou, 610 832-5950.

SGS THOMSON Microelectronics
SGS THOMSON Microelectronics in Montgomery Township, Montgomery County, manufactures silicon-based semiconductors used in transistors. In the past decade, the company had reduced the amount of waste generated at its facility in Montgomery Township and in 1990 closed aboveground

waste storage tanks. During closure, soil contamination from solvents used in the 1970s was detected near loading docks. Approximately 200 tons of contaminated soil was removed in 1994 and wells were installed to monitor groundwater for potential contamination. The soil cleanup received DEP approval for achieving the statewide health standard. In February 1997, DEP approved the groundwater remediation at this facility because well monitoring showed that the site-specific standard was attained for volatile organic compounds. The company continues to operate at the site. Future land transactions will require a deed notice addressing the groundwater quality. Contact Thomas Canigiani, 610 832-5950.

John Brensinger Residence
The John Brensinger Residence in Moore Township, Northampton County, required remediation following the accidental release of petroleum into this private residence during a routine No. 2 heating fuel oil delivery. Contact Joseph Brogna, 717 826-2511.

National Forge
National Forge is an employee-owned integrated melting, forging, heat treating and machine facility located in Irvine, Warren County. Its principal products are diesel engine crankshafts and steel pipe molds. This past year National Forge completed Act 2 activities of a second area of concern, AOC 2, adjacent to its wastewater treatment facility. The statewide health standard was used. Contact Craig Lobins, 814 332-6648.

Norwin Dodge Facility
The Norwin Dodge Facility in North Huntingdon Township, Westmoreland County, had soil contamination with PHCs and BTEX present. The site was remediated to the statewide health standard. Contact Ed Gursky, 412 442-4091.

PPG Industries, Inc.
PPG Industries closed the South Greensburg plant in February 1994 and more than 200 workers lost their jobs. The 10-acre site had been used for manufacturing since the early 1900s. Since 1954, PPG used it to make auto replacement glass. The Westmoreland County Industrial Development Corporation plans to redevelop the site into smaller manufacturing units. The cleanup included soil remediation of Polynuclear Aromatic Hydrocarbons (PAHs) and lead. Contact John Matviya, 412 442-4091.

ALCOA Pilot Atomizer
In 1996, Aluminum Company of America (ALCOA) discovered soils near its former atomized aluminum powder research facility at its Westmoreland County research and development complex were contaminated with PCBs. About 430 tons of contaminated soils and all buried materials – including aluminum files, copper, scrap metal and spent potlining carbon – were excavated and removed for proper disposal. Contact John Matviya, 412 442-4091.

AMP-Larue Building 31
AMP-Larue, located on a 5-acre site in Codorus Township, York County, is an electronic component and research facility. Solvents were found in the groundwater and contamination

was found in several neighboring wells. In 1985, AMP began a pump-and-treat remediation. They are now in a monitoring-only phase and the residential wells have been clean for the past two years. The company attained the statewide health standard. There has been no disruption in facility operations. Cleanup of the site cost approximately \$900,000. Contact Steve Shank, 717 657-4592.

Suchart Oil & Propane Emeco Lagoon
The former Emeco Lagoon was used by the metal plating company for settling. PHCs, PAHs and solvents were found in soils at the site. The soils met the statewide health standard and therefore, no cleanup was necessary. The vacant site was approved for reuse in February 1997. Suchart Oil and Propane will use this 7-acre property as an oil and gas terminal. Contact Steve Shank, 717 657-4592.

L G Potato Chip Company
When Frito-Lay, Inc. purchased the Eagle Snacks plant in West Manchester Township, York County, DEP began working closely with the snack food company. The company wanted to obtain the liability protection afforded by Act 2. Groundwater contamination was migrating onto the Frito-Lay site from a nearby industry. The site meets the background standard and was approved in October 1996. Contact Steve Shank, 717 657-4592.

Schmucks Tailors and Cleaners
Schmucks Tailors and Cleaners, located in York Township, York County, found PCE contamination in the soil around its facility. The PCE-contaminated soil was excavated and removed. Groundwater depth in this area is 70

feet and therefore, is not impacted. The site was remediated to the statewide health standard. The final report for this site was approved on December 10, 1996. Contact Piyush Gandhi, 717 657-4592.

Liberty Machine Company
The Liberty Machine Company occupies 1.6 acres of commercialized land in York Township, York County. The former agricultural area was developed in 1947 by Liberty Machine, which welds and fabricates wire products and baskets. The site was previously used for machine manufacturing, spray painting and metal and rubber etching. The former spray painting operation at this site contaminated the soils with solvents. In 1994, 70 tons of soil was excavated, mixed with cement to immobilize the contaminants and re-deposited on the site, precluding the movement of solvents into the groundwater. An estimated \$25,000 was spent to attain the statewide health standard. Contact Piyush Gandhi, 717 657-4592.

Regional Showcases

The following pages showcase one land recycling site in areas served by each of the six DEP regional offices across the Commonwealth. The final showcase presents a particularly innovative reuse of a site in Bethlehem, Pennsylvania, in the Northeast region. Following these showcases are the Pennsylvania sites that were finalists in the Phoenix Awards at the 1997 Industrial Site Reuse Conference in Pittsburgh, Pennsylvania.

200-Year-Old Site Gets New Life Through Land Recycling

Sackville Mills Site, Southeastern Region

After serving almost 200 years as a textile mill, soil surrounding the former Sackville Lane industrial site in Rose Valley, Delaware County, was contaminated with petroleum hydrocarbons and lead. A cleanup conducted by Renaissance Properties Inc. in 1997 resulted in the excavation and off-site disposal of 52 tons of contaminated soil. The mill areas of the site were originally cleaned up under the supervision of the U.S. Environmental Protection Agency in 1994.



Sackville Lane, Rose Valley

Active as a textile mill for close to 200 years and idle for the past seven, the Sackville Lane site will return to productive use as a housing development.

“This 37-acre property has been idle since 1992,” said Southeast Regional Environmental Cleanup Program Manager Bruce Beitler. “Now, under the provisions of the Land Recycling Program, the property will be put back into use for residential development.”

As required by Act 2, a notice describing the cleanup was published in a local newspaper and also in the Pennsylvania Bulletin. Future property owners will be free to develop the site without fear of continued liability due to the contamination identified in the cleanup.

Land Recycling Means Progress at Former Foundry Site

Progress Park Lots 4 & 5, Southcentral Region

Two industrial lots in the City of Lebanon, Lebanon County — Progress Park Lots 4 and 5 — now stand on the property of a former steel fastener foundry. From 1882 until 1983, the foundry was in active production. During that time, the soils and groundwater were contaminated with semi-volatiles and metals.

Cleanup of these sites involved the removal of some contaminated soils and the placement of geofabric to cover the deeper soils. The next step was to add clean topsoil and seed the area. The total cost for this cleanup effort was \$130,000.

Cleanup of these sites involved the removal of some contaminated soils and the placement of geofabric to cover the deeper soils.

Two separate agreements, one to certify that the special industrial area standard had been met and the other to grant a release of liability, were signed in October 1996. Future uses for the sites include office space for the Pennsylvania Department of Labor and Industry and retail and warehousing space for Home Med Care.



Dept. of Labor & Industry, Lot 4



Home Med Care Office, Lot 5

Recycling a Former Recycling Site

Coley Auto Salvage, Northcentral Region



*Coley Auto Salvage and Recycling,
Loyalsock Township*

The Coley Auto Salvage and Recycling site, located in Loyalsock Township, Lycoming County, conducted metal salvaging operations from 1986 through 1993. Due to a process that melted down lead shielded copper cable to recover principal metals, high levels of lead were found in the soil.

The source of the contamination was traced to Staiman Brothers Incorporated, a customer that sent lead-containing materials to the site for reclamation. Staiman Brothers voluntarily conducted the cleanup in accordance with the provisions of Act 2 and remediated the site to the statewide health standard.

A total of 2,706 tons of contaminated soils was excavated and removed to an approved off-site facility.

A voluntary cleanup resulted in the removal of 2,706 tons of contaminated soil.

Remediation of Ingersoll-Rand Plant Leads to 120 New Jobs

Ingersoll-Rand Site, Southwestern Region

The 4-acre site currently known as the Ingersoll-Rand Plant in Charleroi, Washington County, has known several owners and uses. Industrial operations date back to the late 1800s when the Wyano Company operated a coal tippie. In the 1920s the site was occupied by the Charleroi Iron Works for the manufacturing of funeral vaults. Lee-Norse used the site in the 1940s to produce and service mining equipment. In 1983, Ingersoll-Rand bought the property and continued to work with mining machinery until closing its facility in 1988.

One hundred twenty new jobs were created by the reuse of the Ingersoll-Rand Plant by Tri-State Hydraulics and Jaycee Foods, Inc.

Redevelopment Authority of Washington County (RAWC) purchased the property in 1993 and began remediation efforts. The property was divided into two parcels, with the southern parcel including buildings and an asphalt parking lot that covers a closed underground storage tank. The northern parcel contained soil contaminated with solvents.

The Ingersoll-Rand Plant is in an enterprise zone and is eligible for the special industrial area standard. Remediation plans include pathway elimination, a ground cover and prohibition of groundwater use. These conditions were included in a September 1996 Consent Agreement.



***Former Ingersoll-Rand Plant,
Charleroi, Washington County***

As a result of the agreement, the southern portion of the property was sold to Tri-State Hydraulics, which will expand its operations and expects to employ up to 100 workers. The northern portion was sold to Jaycee Foods, Inc., which will construct an office and warehouse and plans to employ about 20 workers.

Land Recycling Gave 100-Year-Old Steel Mill Site A Competitive Edge

USX Ellwood City Site, Northwestern Region

The Land Recycling Program played a critical role in attracting L&N Metallurgical Products Company to the former USX Ellwood City facility in Lawrence County, a project that is expected to create approximately 190 jobs.

In December 1995, L&N contacted the Ellwood City Enterprise Zone staff about possible locations for a new plant. The company was searching primarily in western Pennsylvania, Ohio, Tennessee and Indiana. The former USX Ellwood City facility, which had been abandoned since 1974, was considered a prime site for the new plant.

In April 1996, Ellwood City submitted a baseline investigation, which DEP approved in June 1996. After a year of negotiation, the company closed on a \$5.1 million industrial development bond to construct a 96,000-square-foot manufacturing facility.

“The Land Recycling Act has played a major role in the process by enabling the reuse of old, abandoned industrial sites,” said Turner.

“The intent of the Commonwealth’s Enterprise Zone Program is to maintain and expand the industrial manufacturing base in distressed communities and to attract new industries to Pennsylvania,” said C. David Turner, borough manager/enterprise zone coordinator, Ellwood City. “The Land Recycling Act has played a major role in this process by enabling the reuse of old, abandoned industrial sites. This was one of the key elements in the successful retention of L&N Metallurgical Products Company within the Ellwood City Enterprise Zone and the Commonwealth of Pennsylvania. Without this legislation, the enterprise zone would have had an extremely difficult time marketing a 100-year-old steel mill site.”



Former USX Ellwood City Site

Smithsonian and Steel Giant Propose Industrial Heritage Museum



The Bethlehem Steel Plant in Bethlehem, Pa., produced the steel that helped to build, defend and transport America for virtually all of this century.



Bethlehem Steel ended its tradition of metal production at the site in November 1995 and plans began to transform the site into a mixed use area offering sports, recreation, entertainment, a museum, retail shops and restaurants.

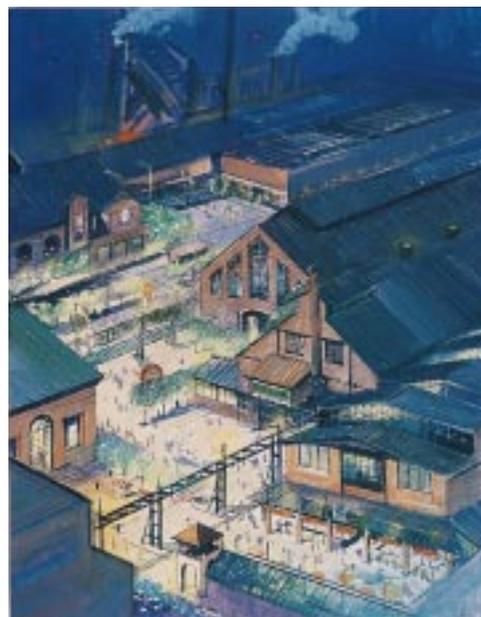
This March, Bethlehem Steel Corporation in Bethlehem and the Smithsonian Institution signed a partnership agreement that will lead to the long-term lending of hundreds of the Smithsonian's industrial artifacts to a new, not-for-profit museum corporation, the National Museum of Industrial History. The museum will be part of a family education and entertainment complex to be located on the 160-acre site of the former Bethlehem Steel Corporation manufacturing facility in Bethlehem. This project will be an innovative reuse of a former industrial site.

With the discontinuation of steelmaking and exit from the heavy beam business in Bethlehem, Pa., Bethlehem Steel decided to help revitalize the south side of town by attempting to develop its former plant site. They decided to pursue a plan that offered a combination of mixed uses -- including sports, recreation, entertainment, a museum, retail shops, restaurants and other uses that would attract people to the site.

Bethlehem Steel Site, Northeastern Region

In early 1996, Bethlehem Steel sold its first major structure on the site -- its former plant office building -- to Lehigh University for the location and expansion of the University's SMART Discovery Center. In February, Bethlehem Steel and the Smithsonian Institution announced that they would collaborate to display hundreds of artifacts in the proposed National Museum of Industrial History. The museum would initially occupy 160,000 square feet in three buildings where Bethlehem Steel produced alloy and tool steels. Funding is currently being sought for the area, with construction to begin in 1998. The museum is expected to open in the year 2000 or 2001.

"It's been said that Pennsylvania has the most progressive brownfields law in the country," said Curtis "Hank" Barnette, chairman and CEO, Bethlehem Steel, at the partnership announcement. "Certainly, this is making possible the revitalization of our site in Bethlehem that might otherwise have had a very limited future. The potential economic impact is tremendous."



Three buildings will house the National Museum of Industrial History at the site of the Bethlehem Steel Corporation's Bethlehem, Pa., plant.



This "Jupiter" locomotive was given to the Smithsonian Institution and was the style of locomotive that was the mainstay of American railroads during most of the 19th century.



The Phoenix Award

The Phoenix Awards

The Phoenix Awards seek to recognize innovative yet practical remediation projects which bring blighted, old industrial sites back into productive use. While these projects serve as models for other communities, the awards also provide a forum to showcase and publicize successful solutions to a nationwide problem. DEP, along with



DEP Secretary Seif and Awards Program Coordinator Denise Chamberlain at the awards ceremony.

Allegheny Teledyne Incorporated, McLaren Hart, PPG Industries, Inc., and Shenango Incorporated, was honored to sponsor the first Phoenix Awards presentation.

At the April 1997 Industrial Site Recycling Conference, four Pennsylvania projects were finalists in the first Phoenix Awards competition. One of these, The Industrial Plaza of York, won the award for the Private Project Category. A brief description of each undertaking follows.



The Industrial Plaza of York

The Industrial Plaza of York, in York County, sits on the 6.2-acre site of the old York Manufacturing Company. The company employed 2,000 people and produced large drive wheels for heating and cooling systems. The York County Industrial Development Corporation and the City of York commissioned Buchart-Horn/BASCO Associates to design the renovation of the site which was abandoned in 1958.

The site was renovated using many of the existing buildings. Buchart-Horn/BASCO is now the largest tenant at the facility, which also includes a business incubator, a micro-brewery, a specialty steel distributor, a computer service and automotive training center.

The Crawford County Industrial Park in Meadville was created from the first Pennsylvania State Superfund Site. Today 16 businesses employing 1,000 people are reusing this old industrial site. The 300-acre property was abandoned in 1986 when Avtex Fibers filed for bankruptcy. On the leading edge of the Land Recycling effort, the City of Meadville, the Crawford County Commissioners, the Redevelopment Authority of Meadville, Moody and Associates, ERM Inc. and the FMC Corporation came together to remediate the PCBs and other carcinogens found on the site.



Crawford County Industrial Park

Washington’s Landing at Herr’s Island in Pittsburgh was at one time a meat-packing plant, saw mill, oil refinery and scrap yard. Now the 42-acre island in the Allegheny River with a postcard view of the City of Pittsburgh skyline is a multi-faceted community. It includes a 7-acre, 93-townhouse village, a public park, a light industrial manufacturer, a marina, DEP’s Southwestern Regional Office and a fitness and rowing center. The project team included the Urban Redevelopment Authority of Pittsburgh, ICF Engineers, GAI Consultants and SE Technologies. The development created 200 new jobs and retained 300 others.



Washington’s Landing at Herr’s Island

The Monesson Coke Plant was built in 1941 and operated as an important part of the western Pennsylvania steelmaking industry until Wheeling-Pittsburgh Steel filed for bankruptcy in 1985. Except for a four-year period when Sharon Steel operated the facility, the coke ovens have been on hot-idle and not producing. Koppers Industries, Inc., with the assistance of Penn’s Southwest Association and DEP, transformed the World War II facility into a modern coke-producing plant employing 200 additional people.



Monesson Coke Plant

Financial Assistance

Projects Funded Under Act 2

Act 2 established the Industrial Sites Cleanup Fund to make available \$15 million in direct grants and low-interest loans to help parties not

responsible for contamination on a site to conduct voluntary environmental assessments and cleanups. Grants are available to help finance activities by local governments and economic development agencies.

Total Projects Funded Under Act 2 — \$3,186,853 Projects funded since June 30, 1996 are in bold print.		
Former Hays Armory, Pittsburgh Economic and Industrial Development Corp., Allegheny County	\$993,750 (grant)	
Former Berwick Forge & Fabricating Site, Berwick Ind. Dev. Association, Columbia County	\$229,269 (grant)	\$100,000 (loan)
Pier 98, Philadelphia Regional Port Authority, Philadelphia County	\$118,265 (grant)	\$84,850 (loan)
Ardmore Redevelopment Site, Montgomery County Redevelopment Authority, Montgomery County	\$75,000 (grant)	
Former Lowengart Tannery, Mercersburg Borough, Franklin County	\$39,778 (grant)	
Former Texaco Station, York County		\$45,270 (loan)
Former City Auto Parts Site, Greater Erie Industrial Development Corporation, Erie County	\$231,764 (grant)	
Former Pullman Standard Site, Butler County Community Development Corporation, Butler County	\$55,000 (grant)	
Whitaker Center, Harrisburg Redevelopment Authority, Dauphin County	\$75,000 (grant)	
Curry Flour Mills, Lebanon County		\$53,062 (loan)
Former Service Station, David A. Prueitt, Adams County		\$22,500 (loan)
Former Lectromelt Facility, Urban Redevelopment Authority of Pittsburgh, Allegheny County	\$418,710 (grant)	
Former Alta Products Site, CJB Realty, Williamsport, Lycoming County		\$96,600 (loan)
Former Avtex Fibers, Crawford County Properties, Inc., Vernon Twp., Crawford County	\$100,000 (grant)	\$85,250 (loan)
Former Blue Ridge Winkler Site, Bangor Borough, Northampton County	\$62,775 (grant)	
Former Siltex Site, Lemon Twp., Wyoming County	\$150,000 (grant)	
Capital Area Airport, York County Production Corporation, Fairview Twp., York County	\$150,000 (grant)	

Projects Funded Under Act 4

Act 4 establishes the Industrial Sites Environmental Assessment Fund to provide up to \$2 million annually as grants to finance

environmental assessments and cleanup activities in distressed communities and cities of the first, second and third class.

Total Projects Funded Under Act 4 — \$2,587,183 Projects funded since June 30, 1996 are in bold print.	
Former Thonet Site, York County Industrial Development Corp., York, York County	\$65,236
Former Smokestack Site, York County Industrial Development Corp., York, York County	\$82,500
Former USX Duquesne Works, Regional Industrial Development Corp. of Southwestern PA, Allegheny County	\$89,355
Former Westinghouse Site, Regional Industrial Development Corp. of Southwestern, PA, Allegheny County	\$79,875
Former USX McKeesport Site, Regional Industrial Development Corp. of Southwestern PA, Allegheny County	\$37,500
Former City Auto Site, Greater Erie Industrial Development Corp., Erie County	\$30,000
Former Sharon Steel Site (17 acres), City of Farrell, Mercer County	\$17,351
Former Sharon Steel Site (1 acre), City of Farrell, Mercer County	\$8,685
Former Service Station, Koppel Borough, Beaver County	\$3,037
Former Northern Coal Co., Moshannon Valley Economic Development Partnership, Centre County	\$4,575
Former Erie Iron Works, Greater Erie Industrial Development Corp., Erie County	\$66,965
Former General-Kinetics, Inc. Site, Johnstown Redevelopment Authority, Cambria County	\$37,500
Lehigh Landing Riverfront Revitalization, Allentown Commercial and Industrial Development Authority, Lehigh County	\$200,000
Former Coal Mine, Cambria County Conservation and Recreation Authority, Cambria County	\$200,000
Former Clyde Mine, Middle Monongahela Industrial Development Association, Washington County	\$200,000

National Forge, AOC-2, Warren County Development Association, Warren County	\$6,645
Former Cambria Iron Works, Redevelopment Authority of Johnstown, Cambria County	\$150,000
Former Conrail Storehouse, Altoona Blair County Development Corporation, Blair County	\$30,000
Former Conrail Yards, Altoona Blair County Development Corporation, Blair County	\$90,000
Former Metal Services and B&W Sites, Apollo Borough, Armstrong Co. Ind. Development Council, Armstrong County	\$200,000
Mathers Mine, Greene County Industrial Development Authority, Greene County	\$16,500
Former Anchor Hocking Site, Forest County Industrial Development Corporation, Forest County	\$7,500
Former Better Tires Site, Bedford County Development Association, Bedford County	\$9,750
Former Blue Coal Site, Earth Conservancy, Hanover Twp., Luzerne County	\$183,585
HIG Management Capital, Johnstown Redevelopment Authority, Johnstown, Cambria County	\$200,000
Former Modern Laundry Site, City of Philadelphia, Philadelphia County	\$39,375
Warren Steel Corporation Site, Warren County Development Association, Warren, Warren County	\$7,050
Rail Corridor (454 East Princess Street), York County Industrial Development Corporation, York, York County	\$90,000
Lebanon Steel Foundry, Lebanon Valley Economic Development Corporation, Lebanon, Lebanon County	\$59,925
Seamless Pipe Mill, Regional Industrial Development Corp. of Southwestern PA, McKeesport, Allegheny County	\$150,000
Heritage Village, Redevelopment Authority of Philadelphia, Philadelphia, Philadelphia County	\$124,125
New Jobs Corporation, Northampton County Development Corporation, Easton, Northampton County	\$57,399
Public Works Garage, Redevelopment Authority of the City of Wilkes-Barre, Wilkes-Barre, Luzerne County	\$37,500
Labelle Road (former gas station), Redevelopment Authority of the County of Fayette, Luzerne Twp., Fayette County	\$5,250

Program Guidance

A comprehensive and detailed document to guide implementers of interim Act 2 cleanups is currently under revision. The updated description of program policies and procedures embodied in the final regulations will be available in final draft form in September. A careful peer review process has been designed to allow refinements and operational adjustments to the guidance manual before it is printed in final form by the end of 1997.

DEP field staff and members of the Science Advisory Board and its subcommittees will be engaged in crafting changes and reviewing the program guidance. The key issues to be addressed through this process include a list of quantitation limits for all regulated substances presently in the statewide health standard chart, acceptable fate and transport modeling and risk assessment procedures, a decision matrix to guide decisions on separate phase liquid remediation, soil-to-groundwater pathway equivalency options and procedures for demonstrating the applicability of non-use aquifer standards.

Regulatory Overview

Pennsylvania is open for business with a program that strikes an effective balance between economic development incentives and environmental protection safeguards. DEP has crafted a regulatory package complete with options and flexibility. It is this eye toward the

operational success of this program that will carry it to an even higher level of success.

The draft regulations were published for public review and comment in August 1996. After airing the package at three public hearings and receiving more than 600 written comments, DEP modified the draft regulations to incorporate the many sound suggestions provided by the interested public. DEP worked very closely with the members of the Science Advisory Board in making the needed adjustments. As a result of this cooperative approach, the board provided DEP with a full endorsement of the final regulations. The final regulations are comprised largely of the cleanup standards required by Act 2 to guide cleanup of contaminated properties anywhere in the Commonwealth that will be protective of public health.

The regulations were adopted by the Environmental Quality Board on June 17, 1997. At that meeting, DEP announced the approval of the 100th site cleanup under the interim program.

Outreach

A very crucial part of DEP's program is distributing information about the Land Recycling Program to citizens, developers, consultants, businesses, lenders and lawyers. This outreach has taken many forms. From the development of fact sheets to advertising in a national weekly magazine, DEP has tried to get the word out about the voluntary cleanup

program. The following is a brief description of some of the highlights of the outreach effort.

DEP was a sponsor of the **Phoenix Awards** (see the Phoenix Awards section) at the 1997 Industrial Site Recycling Conference. The awards recognized innovative approaches to the reuse of contaminated industrial property. DEP was also proud to be a co-sponsor of the conference which has become the leading yearly forum for industrial site recycling programs.

The June 16 issue of *BusinessWeek* magazine included a colorful eight-page insert outlining the various innovations and programs which encourage businesses to take a good long look at Pennsylvania as a place to do business. The Land Recycling Program was extensively highlighted and case studies of successful land recycling sites were featured.

DEP recently released a 15-minute **videotape** which gives an overview of the Land Recycling Program. This video shows sites in Pennsylvania which have gone through the Act 2 process and features planners and developers discussing the help and benefits they received with their remediation efforts.

INC Magazine ran a special section in the May 1997 issue which highlighted Pennsylvania's businesses. This was scheduled to correspond to their INC 500 Conference which was held in Philadelphia. The Land Recycling Program ran a full-page color ad in the magazine to promote industrial site recycling.

DEP developed and issued a 30-second **Public Service Announcement** (PSA). The PSA will air on various stations throughout Pennsylvania and will give contact numbers for those interested in more information.

Because of the program's innovation and success, DEP has been asked to make **presentations** in other states. New York City, Omaha, Washington, DC and Baltimore are some of the cities the DEP visited throughout the year. DEP has given the same presentations to groups, large and small, throughout Pennsylvania. These have included meetings of the Bar, Chambers of Commerce, Remediation Specialists, Realtors and Redevelopment Authorities. When the regulations covering the Land Recycling Program are published as final, **regional workshops** are planned to bring the specifics of the program to all interested parties.

The Land Recycling Program has a **home page** on the DEP web site with the latest information about the program and various progress reports. Each month the web site features a Land Recycling Showcase section that highlights a selected project and includes details, history and photos of old industrial sites that have been returned to productive use. In addition, the DEP home page includes the weekly *Environmental Protection UPDATE* newsletter which is also published in hard copy form and often lists new land recycling sites. The home page address is <http://www.dep.state.pa.us> (choose Information by Subject, then choose Land Recycling and Waste Management and then Land Recycling.)

Storage Tank Cleanups

Since DEP began tracking the status of regulated storage tank release sites in October 1989, there have been over 7,800 confirmed releases from underground tanks containing petroleum. While cleanup has been initiated at nearly all of these sites, only approximately 3,200 or 41 percent of the cleanups have been completed. However, the number of cleanups completed has increased significantly with the passage of Act 2. Since that time, 1,444 cleanups have been completed, resulting in 1,406 letters requiring no further action and 38 full releases from liability. Only 38 liability protection letters have been issued because use of the “chemicals of concern” list with the Act 2 cleanup standard option is just beginning.

Storage tank cleanups conducted pursuant to the Storage Tank and Spill Prevention Act (Act 32 of 1989, as amended), which meet one or more of the standards under Act 2, are considered Act 2 cleanups. Section 904(c) of Act 2 preserved the corrective action process for the remediation of releases from storage tanks regulated by Act 32. Regulated storage tanks include a wide range of underground and aboveground tanks containing petroleum products and hazardous substances. The one notable exception to the regulated tank community is tanks containing heating oil for consumptive use on the premises where stored. The corrective action process applies to releases from regulated tanks for which remediation was initiated on or after August 5,

1989, the effective date of Act 32. Persons who take corrective action under Act 32, and can demonstrate attainment of one or more of the standards under Act 2, will be afforded liability protection.

While an informal corrective action process existed upon the passage of Act 32, the existing corrective action process was established in regulation on August 21, 1993. These regulations represent a streamlined and flexible approach to corrective action. For instance, in cases where interim remedial actions (e.g. excavation of contaminated soil) can adequately address a release, the person performing the cleanup is required to submit only one report (site characterization) to DEP.

Where there is limited contamination associated with the closure of an underground storage tank system, DEP has offered a standardized closure report form which may be used to satisfy the site characterization report requirements. The regulation is flexible in that it authorizes DEP to waive or combine elements of the corrective action process based on the complexity of the release. For example, a responsible party may submit the site characterization report and remedial action plan as one report.

The corrective action process regulations did not establish cleanup standards. Until the passage of Act 2, DEP required that all storage tank release sites which impacted ground water be restored to “pristine conditions.” This

stringent cleanup goal resulted in a relatively small percentage of cleanups being completed. With the passage of Act 2, individuals can now utilize the flexible corrective action process together with the more practical, risk-based cleanup standards to accomplish remediation goals and protect human health and the environment at the same time. Further, in order to facilitate cleanups, DEP has identified those regulated substances or “chemicals of concern” that must be quantified by the laboratory for commonly encountered petroleum products. These substances and the accompanying methodologies are to be utilized to demonstrate attainment for storage tank remediations, as well as other remediations involving petroleum products. These analytical requirements first appeared in the “Closure Requirements For Underground Storage Tank Systems” technical document, dated August 1, 1996 and later in the supplement to the Technical Guidance Manual for Act 2 issued in December 1996. DEP has moved away from requiring analysis for the indicator parameters TRPH and PHC, as they are not standards established by, or under, Act 2.

For more information on the Storage Tank Cleanup Program, check out the web site at: <http://www.dep.state.pa.us/dep/deputate/airwaste/wm/Tanks/tanks.htm> or send an e-mail to: Tank.Clnup@a1.dep.state.pa.us

Multi-Site Cleanup Agreements

In addition to using the Land Recycling Program and its standards to clean up individual sites, DEP has signed two voluntary multi-site agreements that will lead to the investigation and cleanup of over 150 sites in 26 counties.

Under these special multi-site cleanup agreements, companies agree to evaluate and clean up sites on an established schedule. The companies also agree to complete a specified amount of assessment and remediation work during each year of the agreement and also to follow the cleanup standards contained in the Land Recycling and Environmental Remediation Standards Act. These features allow the companies to plan year-to-year costs in advance and to regulate the work over the term of the agreement.

The public benefits because the sites are cleaned up at private expense. The companies benefit from a predictable cleanup schedule covering all of their sites rather than having to negotiate the cleanup of each site individually with DEP. The Department is currently developing agreements with several companies. Below is a description of a multi-site agreement.

Penn Fuel Gas Multi-Site Agreement

The sites in the agreement are former manufactured-gas plants, where coal was processed to produce gas. As natural gas became widely available, operations ceased by

the mid 1960s. All of the sites are now used for other purposes.

Under this agreement Penn Fuel Gas Inc. and North Penn Gas Company agreed to investigate and, where necessary, clean up 20 industrial sites using standards from the Land Recycling Program and close approximately 340 abandoned natural gas wells in 15 counties. Since the date of the agreement (1996) conditions at eight sites have been assessed.

The agreement calls for measuring cleanup progress through a “point system” and gives Penn Fuel some flexibility in determining the activities it will undertake in a given year to earn the required points. The point system, in turn, is based on a prioritization system that addresses the highest environmental risks earlier in the process.

Buyer/Seller Agreements

Another way that DEP seeks to encourage the reuse of commercial and industrial properties is to facilitate buyer/seller agreements. These agreements stipulate the cleanup responsibilities of buyers and sellers initiating land transactions and usually involve DEP as a third party.

In general, such agreements are available in situations where the buyer is an innocent party and the seller agrees to be responsible for the remediation of the property. The buyer is not responsible for any cleanup liability for conditions at the site at the time of purchase. The seller receives a liability release, which transfers

to the buyer, under the Land Recycling Program once the site is remediated to Act 2 standards.

In the past year, seven additional buyer/seller agreements were finalized. This brings the total to 18 agreements across the Commonwealth.

Hazardous Sites Cleanup Program

The Hazardous Sites Cleanup Act (HSCA) also provides for the cleanup and reuse of contaminated property. DEP is provided the authority and funding to conduct site investigations and cleanup actions at sites where hazardous substances have been released. HSCA also provides DEP with enforcement authorities to require persons who are responsible for releases of hazardous substances to conduct cleanups or to repay public funds that DEP spends to conduct a HSCA cleanup action.

Under the provisions of HSCA, cleanup actions are not conducted at active facilities with financially viable owners. Most HSCA cleanup actions are conducted at abandoned industrial facilities where the owner is bankrupt or otherwise financially unable to conduct the cleanup, or at sites where the person responsible for the contamination is unknown.

In the period from July 1996 through May 1997 DEP initiated nine HSCA response actions. Seven of these sites were former industrial facilities. The HSCA response actions at these former industrial facilities will encourage the reuse of these properties.

Beaulieu

The Beaulieu site is a former manufacturing facility located in Pottstown Borough, Montgomery County. The facility was most recently used by a business that manufactured pipe fittings. The facility was closed and abandoned. DEP conducted a HSCA response to remove drums of waste abandoned at the site. The HSCA response cost approximately \$225,000. The main building that was used for manufacturing is structurally sound.

Discussions are underway with the owner and a prospective buyer to arrange for the reuse of this building.

Delta Truck

The Delta Truck Bodies site was a former truck body manufacturing facility located in Perry Township, Berks County, that had gone out of business. Last year DEP entered into a special industrial area agreement (pursuant to Act 2) with a new owner to remove the waste that had been abandoned at the facility and return the facility to productive use. Waste handling practices by the former truck body manufacturing operation contaminated the groundwater in the area. The groundwater is contaminated with solvents that were used in

degreasing and painting operations. Some residential wells adjacent to the site have become contaminated. DEP conducted a HSCA response to provide the affected homes with water treatment systems. The HSCA response cost approximately \$35,000. DEP is conducting further investigations at the site to determine the nature and extent of the groundwater contamination and evaluate remediation options.

National Granulating

The National Granulating Company was a tire recycling facility located in a residential area in the City of Washington, Washington County. On February 27, 1997, a fire started at the site that engulfed warehouse buildings and ignited piles of whole tires and piles of processed chipped tires. The fire involved an area of about three acres where tires were stored. DEP conducted a HSCA response to extinguish the fire and remove the burned tire material and other waste material for disposal at approved waste disposal facilities. The burned buildings were demolished and removed. The HSCA response cost approximately \$1.5 million. This HSCA response action will facilitate the future property reuse.

Overview of HSCA Sites

Beaulieu	Pottstown Borough	Montgomery County
Delta Truck	Perry Township	Berks County
National Granulating	City of Washington	Washington County
Phoenix Materials	East Franklin Township	Armstrong County
Sellersville	Sellersville Borough	Bucks County
Seven Stars	East Pikeland Township	Chester County
U.S. Centrifugal	Colwyn Borough	Delaware County
Windship Road	Covington Township	Lackawanna County
Zieglerville TCE	Lower Frederick Township	Montgomery County

Phoenix Materials

The Phoenix Materials site is an abandoned electronic circuit manufacturing facility located in East Franklin Township, Armstrong County. Hazardous wastes were abandoned at the facility when the operation went out of business. DEP conducted a HSCA response to remove the abandoned waste. The HSCA response cost approximately \$30,000. The former manufacturing building at the site is in poor condition.

Sellersville

The Sellersville property is the site of a former radium processing facility located in a residential area in Sellersville Borough, Bucks County. The facility was closed and the building was demolished more than 50 years ago. When the buildings were demolished, radioactive wastes were mixed with the demolition waste and the material was buried at the site and regraded. DEP is conducting a HSCA response at the site to excavate and remove the radioactive waste to an approved disposal facility. The estimated cost of the HSCA response is \$5 million. The property is located in a residential area and will be available for reuse as a recreational area after the response action is completed.

Seven Stars

The Seven Stars site is an area of groundwater contamination located in East Pikeland Township, Chester County. The groundwater in the area is contaminated with solvents. DEP conducted a HSCA response to provide alternative water for the affected homes. The HSCA response cost approximately \$30,000. DEP is conducting a study in order to determine the source of the contamination and is planning to extend a waterline to the affected homes to provide a permanent water supply.

U.S. Centrifugal

The U.S. Centrifugal site is an abandoned manufacturing facility located in Colwyn Borough, Delaware County. When the company went out of business, several piles of hazardous waste were abandoned at the site. The hazardous waste contained lead and other heavy metals. DEP is conducting a HSCA response to remove the piles of waste and other site contamination. The HSCA response is estimated to cost \$310,000. Discussions are underway with a new buyer to facilitate reuse of the site.

Windship Road

The Windship Road site is a drum disposal area in Covington Township, Lackawanna County. Drums of waste containing hazardous substances were dumped and buried at the site. DEP conducted a HSCA response to excavate and remove the drums of waste. The HSCA response cost approximately \$100,000. DEP is conducting an investigation to determine the source of the drums.

Zieglerville TCE

The Zieglerville TCE site is a former manufacturing facility in Lower Frederick Township, Montgomery County. Operations conducted by the previous manufacturing business contaminated the groundwater in the area with trichloroethylene (TCE), a degreasing solvent. In 1995, DEP conducted a HSCA response to extend a waterline in the area to connect affected private wells. This year, DEP conducted a HSCA response to treat the contaminated soil at the site to remove the source of the solvent contamination. The HSCA response cost about \$215,000. The site is currently owned and used by a construction business as an office and garage.

Recognition

DEP is proud of its Land Recycling Program and many other organizations have recognized it as an efficient, creative approach to the nationwide problems of contaminated site remediation and the loss of greenspace. The following are highlights of the most noteworthy commendations.

The **American Legislative Exchange Council**, located in Washington, D.C., adopted the Pennsylvania program as the national model for industrial site recycling.

The **Council of State Governments** has selected the program as a winner of its 1997 Innovations Award. The Council's Innovation Transfer and Awards Program is the only national program to exclusively recognize state programs selected directly by state government leaders.

The conservation group, **Renew America**, has added Pennsylvania's Land Recycling Program to its *1997 Environmental Success Index*. The compilers note that the *Index* "serves as a true source of environmental ingenuity at work ... a prescription for hope for millions of Americans who want economic choices that benefit both people and the planet."

The program is one of 25 finalists, out of 1,550 applicants for the "**1997 Innovations in American Government Award Program**," sponsored by the Ford Foundation and the John F. Kennedy School of Government at Harvard University. This awards program seeks to recognize innovative approaches to significant problems of concern to the country's citizens.

The competitors must demonstrate that their program can inspire replication by other government agencies.

At the July 1997 conference of the **Council of Great Lakes Governors**, Governor Tom Ridge was hailed as having an innovative approach that is far ahead of other state cleanup programs. As Governor Thompson of Wisconsin said, "Pennsylvania has gone furthest and fastest and Tom has taken the leadership on this issue."

Conclusion

Pennsylvania's site cleanup programs -- the Land Recycling Program, Multi-Site Agreement Program and Hazardous Sites Cleanup Program -- have demonstrated success with many accomplishments in the past year. This integrated report of all cleanup activities demonstrates DEP's programs working together to streamline site remediation and reuse.

As described in the preceding pages, the Land Recycling Program has become a well-established program with outstanding accomplishments. Its innovative features have helped the program accomplish a great deal in a short period of time. The Hazardous Sites Cleanup and Multi-Site Agreement Programs also are offering options for remediating sites.

As DEP moves forward, it continues to strive to improve the quality of life and economic stability of our communities while enhancing environmental quality. More involvement from businesses and interested parties will help DEP continue to achieve sustainable development, to provide incentives to encourage redevelopment of brownfields and discourage sprawl and conversion of greenfields.

Appendix A: Sites Remediated Under Act 2

Sites in bold have been remediated since July 1996 "First Year Progress Report".

County	Municipality	Name	Type Of Cleanup	Region
Adams	Berwick Twp.	Sun Pipeline	Statewide	Southcentral
Adams	Gettysburg Boro..	Gettysburg Railroad Yard	Statewide	Southcentral
Adams	Straban Twp.	Way Wil Inc.	Statewide	Southcentral
Allegheny	Coraopolis Boro..	Framesi-USA	Statewide	Southwest
Allegheny	Etna Boro..	Etna Industrial Park	Statewide	Southwest
Allegheny	Monroeville Boro.	Girman Property	Statewide	Southwest
Allegheny	Pittsburgh	Constantin Pontiac	Statewide	Southwest
Allegheny	Pittsburgh	Hays Army Ammunition Plant	Statewide	Southwest
Allegheny	Pittsburgh	CSX Grant Street Station	Statewide	Southwest
Allegheny	Pleasant Hills Boro.	M & S Building Parking Lot	Statewide	Southwest
Allegheny	Verona Boro.	Woodings-Verona Tool Works	Statewide	Southwest
Allegheny	Verona Boro.	Beazer East Inc.	Site-specific	Southwest
Allegheny	West Deer Twp.	Hunter Farm Drum	Statewide	Southwest
Allegheny	West Mifflin Boro.	Trumbull Corporation	Statewide	Southwest
Allegheny	Wilkinsburg Boro.	Wilkinsburg Parking Authority - Mun. Lot	Background	Southwest
Allegheny	Wilkinsburg Boro.	Advanced Environmental Consultants, Inc.	Statewide	Southwest
Beaver	Freedom Boro.	Ashland Chemical Company	Statewide/ Site-specific	Southwest
Berks	Alsace Twp.	Country Manor Estates	Background/ Statewide	Southcentral
Berks	Maxtawny Twp.	Van Brunt & Sons Inc.	Statewide	Southcentral
Berks	Perry Twp.	Delta Truck Body	Industrial	Southcentral
Berks	Reading	Reading Station Outlets	Industrial	Southcentral
Berks	Robesonia Boro.	Rich Craft Custom Kitchen Inc.	Background	Southcentral
Berks	South Heidelberg Twp.	Buck Run Road Property	Statewide	Southcentral
Berks	Topton Boro.	Caloric Corp.	Background/ Statewide	Southcentral
Blair	Altoona	A Plus Printing	Background	Southcentral
Bradford	Leroy Twp.	Krajack Tank Lines	Statewide	Northcentral
Bucks	Falls Twp.	Tri-Lite Plastics	Statewide	Southeast
Bucks	Langhorne Boro.	Lincoln Plaza Shopping Center	Statewide	Southeast
Bucks	New Britain Twp.	Azar Residence	Statewide	Southeast
Cameron	Emporium Boro.	Olivett Property	Statewide	Northcentral
Chester	West Chester Boro.	West Chester Manufactured Gas Plant	Site-specific	Southeast
Chester	West Chester Boro.	Santos Auto Center	Statewide/ Site-specific	Southeast
Chester	West Chester Boro.	Pizza Box Restaurant	Statewide/ Site-specific	Southeast
Clinton	Logan Twp.	PP&L Distr. Pole #08827n30010	Statewide	Northcentral
Cumberland	Carlisle Boro.	Lippert Site	Background	Southcentral
Cumberland	Carlisle Boro.	Wendys	Background	Southcentral
Cumberland	Lower Allen Twp.	AMP Inc.	Statewide	Southcentral
Cumberland	Lower Allen Twp.	PP&L Distr Pole 23587s32818	Statewide	Southcentral
Cumberland	Mechanicsburg Boro.	Orweco Frocks	Background	Southcentral
Dauphin	Derry Twp.	PP&L Distr. Pole 28642s32801	Statewide	Southcentral
Dauphin	Derry Twp.	Hershey Amoco	Site-specific	Southcentral
Dauphin	Derry Twp.	PP&L Hershey Service Ctr.	Statewide	Southcentral
Dauphin	Harrisburg	Harrisburg Steam Works Ltd.	Background/ Statewide	Southcentral
Dauphin	Harrisburg	Super Rite Foods Inc.	Statewide	Southcentral
Dauphin	Harrisburg	Hervitz Packing Co. (Formerly)	Industrial	Southcentral
Dauphin	Harrisburg	Taylor Wharton Cylinders Eastern Trct. Lots	Background	Southcentral
Dauphin	Susquehanna Twp.	PP&L Distr. Pole 24869s34513	Statewide	Southcentral
Dauphin	Swatara Twp.	All Star Chrysler Plymouth	Statewide	Southcentral
Dauphin	Washington Twp.	James Casner Prop.	Statewide	Southcentral

County	Municipality	Name	Type Of Cleanup	Region
Delaware	Birmingham Twp.	Gabe Staino Chrysler Plymouth	Statewide	Southeast
Delaware	Birmingham Twp.	Claymont Development Property	Statewide	Southeast
Delaware	Concord Twp.	Meadow Run Site	Site-specific	Southeast
Delaware	Eddystone Boro.	Baer Property	Background/ Site-specific	Southeast
Delaware	Eddystone Boro.	Industrial Park Devevelopment Corp.	Statewide/ Site-specific	Southeast
Delaware	Folcroft Boro.	Coca Cola Bottling Co.	Site-specific	Southeast
Delaware	Nether Providence Twp	Sackville Mills Prop.	Background/ Statewide	Southeast
Delaware	Springfield Twp.	Chrylser Realty Corp.	Statewide	Southeast
Erie	Erie City	General Electric Transportation Systems	Statewide	Northwest
Erie	Millcreek Twp.	Mafix	Site-specific	Northwest
Erie	Summit Twp.	WSEE-TV Northstar TV Trans. Tower	Statewide	Northwest
Fayette	Redstone Twp.	Mt. State Bit Service, Inc. (Former)	Statewide	Southwest
Fulton	Ayr Twp.	JLG Ind.	Statewide	Southcentral
Indiana	Indiana Boro.	Fisher Scientific Inc	Statewide	Southwest
Lackawanna	Benton Twp.	Van Fleet Residence	Background	Northeast
Lackawanna	Scranton	Elliot Co.	Statewide	Northeast
Lackawanna	Scranton	Poly Hi Solidur	Statewide	Northeast
Lackawanna	Scranton	Suckle	Statewide	Northeast
Lancaster	East Hempfield Twp.	Pennfield Corp.	Statewide/ Site-specific	Southcentral
Lancaster	East Lampeter Twp.	Reese Metal Prod. Corp.	Site-specific	Southcentral
Lancaster	East Lampeter Twp.	CBS Playskool Facility Lagoon Y	Site-specific	Southcentral
Lancaster	Lancaster City	Haddad Shoe Factory City Crossing	Industrial	Southcentral
Lancaster	Manheim Twp.	Elbys Big Boy 3331	Background	Southcentral
Lancaster	Strasburg Boro.	AMP Bldg. 129 Strasburg	Statewide	Southcentral
Lancaster	West Lampeter Twp.	Lancaster County Firemans Association Training School	Statewide	Southcentral
Lawrence	Ellwood City	Ellwood City Industrial Park	Industrial	Northwest
Lawrence	Ellwood City	USX Ellwood City Facility	Industrial	Northwest
Lawrence	New Castle	Johnson Bronze	Site-specific	Northwest
Lebanon	East Hanover Twp.	Ono Service Center	Statewide	Southcentral
Lebanon	Lebanon City	Progress Park Lot 4	Industrial	Southcentral
Lebanon	Lebanon City	Progress Park Lot 5	Industrial	Southcentral
Lebanon	West Lebanon Twp.	Aqua Chem Inc Cleaver Brooks Div.	Site-specific	Southcentral
Lehigh	Allentown	Paris Accessories Facility	Statewide	Northeast
Lehigh	Lowhill Twp.	Graner Property Remediation	Statewide	Northeast
Luzerne	Kingston Twp.	James Brown Property	Statewide	Northeast
Luzerne	West Hazelton Boro.	Sandusky Lewis Facility	Statewide	Northeast
Lycoming	Muncy Boro.	Andritz Sprout Bauer, Inc.	Background	Northcentral
Lycoming	Loyalsock Twp.	Coley Auto Salvage	Statewide	Northcentral
Mercer	Farrell	Farrell, City Of; (Sharon Steel Coil Yd., 1-A)	Industrial	Northwest
Mercer	Sharon	Roemer Industries	Background	Northwest
Montgomery	East Norriton Twp.	Hostrander Residence	Statewide	Southeast
Montgomery	Horsham Twp.	Commonwealth Corp. Center	Background/ Statewide	Southeast
Montgomery	Jenkintown Boro.	Benson East Apt. Facility	Statewide	Southeast
Montgomery	Lower Moreland Twp.	Jade Holdings Inc.	Statewide	Southeast
Montgomery	Montgomery Twp.	SGS Thomson Microelectronics	Statewide/ Site-specific	Southeast
Montgomery	Plymouth Twp.	Preferred Real Estate Investments	Statewide	Southeast
Northampton	Moore Twp.	John Brensinger Residence	Statewide	Northeast
Warren	Brokenstraw Twp.	National Forge	Statewide	Northwest

County	Municipality	Name	Type Of Cleanup	Region
Washington	Canton Twp.	Dean's Water Service, Inc.	Statewide	Southwest
Washington	Cecil Twp.	Combustion Engineering, Inc.	Statewide	Southwest
Westmoreland	North Huntingdon Twp	Norwin Dodge Facility	Statewide/ Site-specific	Southwest
Westmoreland	South Greensburg Boro.	PPG Industries, Inc.	Statewide	Southwest
Westmoreland	Upper Burrell Twp.	ALCOA Pilot Atomizer	Statewide	Southwest
York	Codorus Twp.	AMP Larue Bldg 31	Statewide	Southcentral
York	Fairview Twp.	PP&L Distr Pole 23743s32420	Statewide	Southcentral
York	Hanover Boro.	Schuchart Oil & Propane Former Emeco Lagoon	Statewide	Southcentral
York	West Manchester Twp.	L G Potato Chip Co	Background	Southcentral
York	West Manchester Twp.	Godfreys Texaco Sta. Aka A M Strickler Inc	Industrial	Southcentral
York	York City	Thonet Site	Industrial	Southcentral
York	York Twp.	Schmucks Tailors & Cleaners	Statewide	Southcentral
York	York Twp.	Liberty Mach Co.	Statewide	Southcentral

Appendix B: Site Map

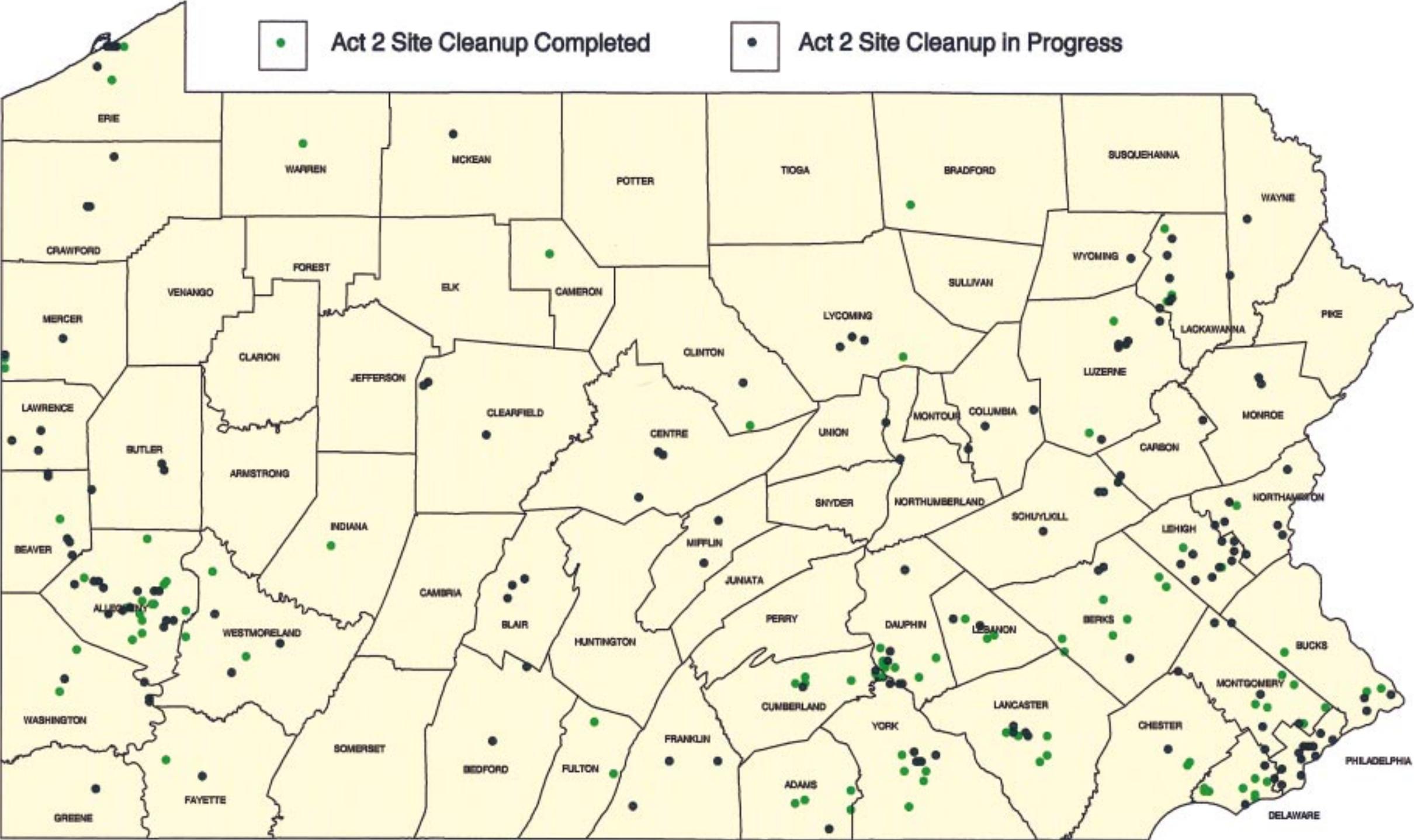
LAND RECYCLING (ACT 2) CLEANUPS IN PENNSYLVANIA JULY 1995 THROUGH JUNE 1997



Act 2 Site Cleanup Completed



Act 2 Site Cleanup in Progress



Appendix C: All Land Recycling Program Sites

County	Municipality	Name	Type Of Cleanup	Region
Adams	Gettysburg Boro.	Gettysburg Railroad Yard Formerly	Statewide	Southcentral
Adams	Littlestown Boro.	Hwy Express	Industrial	Southcentral
Adams	Berwick Twp.	Sun Pipeline	Statewide	Southcentral
Adams	Straban Twp.	Way Wil Inc	Statewide	Southcentral
Allegheny	Pittsburgh	51st St. Properties (Former US Steel Shiffler)	Industrial	Southwest
Allegheny	Wilkesburg Boro.	Advanced Environmental Consultants, Inc.	Statewide	Southwest
Allegheny	Neville Twp.	AMG Resources Neville Island	Statewide/ Site-specific	Southwest
Allegheny	Verona Boro.	Beazer East Inc.	Site-specific	Southwest
Allegheny	Pittsburgh	Constantin Pontiac	Statewide/ Site-specific	Southwest
Allegheny	Pittsburgh	CSX Grant Street Station	Statewide	Southwest
Allegheny	Etna Boro.	Etna Industrial Park	Statewide/ Site-specific	Southwest
Allegheny	Coraopolis Boro.	Framesi-USA	Statewide	Southwest
Allegheny	Monroeville Boro.	Girman Property	Statewide	Southwest
Allegheny	Pittsburgh	Hays Army Ammunition Plant	Statewide	Southwest
Allegheny	West Deer Twp.	Hunter Farm Drum	Statewide	Southwest
Allegheny	Pittsburgh	LTV Steel - Southside Pittsburgh Works	Statewide/ Site-specific	Southwest
Allegheny	Pleasant Hills Boro.	M & S Building Parking Lot	Statewide	Southwest
Allegheny	Ohara Twp.	Papercraft Corp.	Statewide	Southwest
Allegheny	Moon Twp.	Pittsburgh International Airport	Site-specific	Southwest
Allegheny	East Pittsburgh Boro.	PSM Facility (Former)	Site-specific	Southwest
Allegheny	Duquesne	Ridc Center City Of Duquesne	Industrial	Southwest
Allegheny	Ohara Twp.	Riverside Associates Property	Background	Southwest
Allegheny	Neville Twp.	Shenango Inc.	Site-specific	Southwest
Allegheny	Roslyn Farms Boro.	Teledyne Industries Inc.	Site-specific	Southwest
Allegheny	West Mifflin Boro.	Trumbull Corporation	Statewide	Southwest
Allegheny	Neville Twp.	West Rentals, Inc.	Statewide	Southwest
Allegheny	Wilmerding Boro.	Westinghouse Air Brake Division	Site-specific	Southwest
Allegheny	Wilkesburg Boro.	Wilkesburg Parking Authority - Mun. Lot	Background	Southwest
Allegheny	Verona Boro.	Woodings-Verona Tool Works	Statewide	Southwest
Allegheny	Pittsburgh	Xerox Pittsburgh District Parts Center	Statewide	Southwest
Beaver	Aliquippa Boro.	Aliquippa Industrial Park	Statewide	Southwest
Beaver	Freedom Boro.	Ashland Chemical Company	Statewide/ Site-specific	Southwest
Beaver	Aliquippa Boro.	Bet-Tech International Inc. (Ind. Tract)	Industrial	Southwest
Beaver	Aliquippa Boro.	Bet-Tech Intl., Inc. Parcels A1-A4 & D4	Industrial	Southwest
Beaver	Ambridge Boro.	Borough Of Ambridge	Industrial	Southwest
Beaver	Koppel Boro.	Corner Enterprises, Inc.(Former Morini Mkt.)	Industrial	Southwest
Beaver	Monaca Boro.	NF&M International	Statewide	Southwest
Beaver	Big Beaver Boro.	Special Metals Ops, Babcock & Wilcox Co.	Site-specific	Southwest
Bedford	Bedford Twp.	Standard Register Plt	Statewide	Southcentral
Berks	South Heidelberg Twp.	Buck Run Rd Prop.	Statewide	Southcentral
Berks	Topton Boro.	Caloric Corp.	Statewide/Bkgrd	Southcentral
Berks	Alsace Twp.	Country Manor Est.	Statewide/Bkgrd	Southcentral
Berks	Robeson Twp.	Crompton & Knowles Colors Inc	Site-specific	Southcentral
Berks	Perry Twp.	Delta Truck Body	Industrial	Southcentral
Berks	Windsor Twp.	Kaercher Crk Park	Site-specific	Southcentral
Berks	Hamburg Boro.	Outtens Buick Pontiac Chevrolet	Statewide/ Site-specific	Southcentral
Berks	Reading	Reading Station Outlets	Industrial	Southcentral

County	Municipality	Name	Type Of Cleanup	Region
Berks	Robesonia Boro.	Rich Craft Custom Kitchen Inc	Background	Southcentral
Berks	Maxtawny Twp.	Van Brunt & Sons Inc	Statewide	Southcentral
Blair	Altoona	A Plus Printing	Background	Southcentral
Blair	Allegheny Twp.	Mid State Chem Div United Chemicals	Site-specific	Southcentral
Blair	Altoona	Titleman Welfare Fund Property	Industrial	Southcentral
Blair	Altoona	Union Tank Car Co.	Statewide	Southcentral
Bradford	Leroy Twp.	Krajack Tank Lines	Statewide	Northcentral
Bucks	Bristol Twp.	Amer. Trad. & Prod. Corp.	Background/ Site-spfc./Statewide	Southeast
Bucks	New Britain Twp.	Azar Residence	Statewide	Southeast
Bucks	Falls Twp.	K Mart	Industrial	Southeast
Bucks	Middletown Twp.	Langhorne Square Shopping Ctr.	Site-specific	Southeast
Bucks	Langhorne Boro.	Lincoln Plaza Shopping Ctr.	Statewide	Southeast
Bucks	Falls Twp.	Tri-Lite Plastics	Statewide	Southeast
Butler	Zelienople Boro.	American Plating	Industrial	Northwest
Butler	East Butler Boro.	Barcolene/Penn Champ Tank Farm	Statewide	Northwest
Butler	Summit Twp.	Spang Specialty Metals Plant	Background	Northwest
Cameron	Emporium Boro.	Olivett Property	Statewide	Northcentral
Carbon	Kidder Twp.	Burroughs Fuels Inc	Site-specific	Northeast
Carbon	Nesquehoning Boro.	PP&L Hauto Site	Statewide	Northeast
Centre	Bellefonte Boro.	Clasters Warehouse	Statewide	Northcentral
Centre	Ferguson Twp.	E. Devecchis and Sons	Statewide	Northcentral
Centre	Benner Twp.	Sludge Lagoons (Bellefonte Lime)	Background	Northcentral
Chester	West Chester Boro.	Pizza Box Restaurant	Statewide/ Site-specific	Southeast
Chester	West Chester Boro.	Santos Auto Ctr.	Statewide/ Site-specific	Southeast
Chester	Downingtown Boro.	Serena Inc.	Statewide	Southeast
Chester	West Chester Boro.	West Chester Mfg. Gas Plant	Site-specific	Southeast
Clearfield	Du Bois City	Equimeter (Rockwell) Plant 1	Statewide/ Site-spfc./Backgrnd	Northcentral
Clearfield	Du Bois City	Equimeter (Rockwell) Plant 2	Statewide/ Site-specific	Northcentral
Clearfield	Pike Twp.	Howes Leather Corporation	Site-specific	Northcentral
Clinton	Logan Twp.	PP&L Dist. Pole #08827n30010	Statewide	Northcentral
Clinton	Castanea Twp.	Hammermill Paper Co	Statewide	Northcentral
Columbia	Berwick Boro.	Berwick Industries	Site-specific	Northcentral
Columbia	Bloomsburg Town	Sunshine Textile Services	Site-specific	Northcentral
Crawford	Cambridge Springs Boro.	Cambridge Springs Volunteer Ambulance Service	Statewide/ Background	Northwest
Crawford	Vernon Twp.	Crawford County Industrial Park	Background	Northwest
Crawford	Meadville	Fostermation, Inc.	Statewide	Northwest
Cumberland	Lower Allen Twp.	AMP Inc	Statewide	Southcentral
Cumberland	Carlisle Boro.	Lippert Site	Background	Southcentral
Cumberland	Lemoyne Boro.	Lumber Yard	Background	Southcentral
Cumberland	Mechanicsburg Boro.	Orweco Frocks	Background	Southcentral
Cumberland	South Middleton Twp.	PP&L Distr. Pole 15280s31266	Statewide	Southcentral
Cumberland	Lower Allen Twp.	PP&L Distr. Pole 23587s32818	Statewide	Southcentral
Cumberland	Carlisle Boro.	Wendys	Background	Southcentral
Dauphin	Swatara Twp.	All Star Chrysler Plymouth	Statewide	Southcentral
Dauphin	Highspire Boro.	Bethlehem Steel Corp Highspire Lwr. Swatara	Background	Southcentral
Dauphin	Steeltown Boro.	Bethlehem Steel Corp Steeltown Highspire Site	Site-specific/ Background	Southcentral
Dauphin	Harrisburg	Harrisburg Steam Works Ltd.	Background/ Statewide	Southcentral

Pennsylvania's Land Recycling Program: Annual Report of Cleanup Activities

County	Municipality	Name	Type Of Cleanup	Region
Dauphin	Derry Twp.	Hershey Amoco	Site-specific	Southcentral
Dauphin	Harrisburg	Hervitz Packing Co (Formerly)	Industrial	Southcentral
Dauphin	Washington Twp.	James Casner Prop	Statewide	Southcentral
Dauphin	Susquehanna Twp.	Olivetti Supplies Inc. (Formerly)	Statewide	Southcentral
Dauphin	Susquehanna Twp.	PP&L Distr Pole 24869s34513	Statewide	Southcentral
Dauphin	Penbrook Boro.	PP&L Distr Pole 25009s34460	Statewide	Southcentral
Dauphin	Derry Twp.	PP&L Distr Pole 28642s32801	Statewide	Southcentral
Dauphin	Derry Twp.	PP&L Hershey Service Center	Statewide	Southcentral
Dauphin	Harrisburg	Super Rite Foods Inc.	Statewide	Southcentral
Dauphin	Harrisburg	Taylor Wharton Cylinders Estm Trct Lots 1-3	Background	Southcentral
Delaware	Eddystone Boro.	Baer Prop.	Site-specific/ Background	Southeast
Delaware	Upper Darby Twp.	Bond Shopping Ctr.	Statewide	Southeast
Delaware	Springfield Twp.	Chrylser Realty Corp.	Statewide	Southeast
Delaware	Birmingham Twp.	Claymont Develop Prop.	Statewide/Bkgrd	Southeast
Delaware	Folcroft Boro.	Coca Cola Bottling Co.	Site-specific	Southeast
Delaware	Darby Boro.	Filt Air Corp.	Statewide	Southeast
Delaware	Birmingham Twp.	Gabe Staino Chrysler Plymouth	Statewide	Southeast
Delaware	Eddystone Boro.	Industrial Park Development Corp.	Statewide/ Site-specific	Southeast
Delaware	Concord Twp.	Meadow Run Site	Site-specific	Southeast
Delaware	Chester	PECO Tilghman St Gas Plant	Site-specific	Southeast
Delaware	Nether Providence Twp.	Sackville Mills Prop.	Statewide/ Background	Southeast
Elk	Benezette Twp.	CNG Transmission Corporation – Benezette	Statewide	Northwest
Erie	Erie City	Erie City Iron Works	Site-specific	Northwest
Erie	Millcreek Twp.	Fedorko, Peter Property	Site-specific	Northwest
Erie	Erie City	General Electric Transportation Systems	Statewide	Northwest
Erie	Erie City	Greater Erie Industrial - City Auto East	Statewide	Northwest
Erie	Springfield Twp.	J.K.Shiley	Statewide	Northwest
Erie	Erie City	National Fuel Gas, Wayne St	Site-specific	Northwest
Erie	Erie City	Penelec - Front Street Station/GPU	Statewide	Northwest
Erie	Summit Twp.	WSEE-TV Northstar TV Transmission Tower	Statewide	Northwest
Fayette	North Union Twp.	Long-Airdox Company	Site-specific	Southwest
Fayette	Redstone Twp.	Mt. State Bit Service, Inc. (Formerly)	Statewide	Southwest
Franklin	Mercersburg Boro.	Loewengart & Co. Inc.	Industrial	Southcentral
Franklin	Hamilton Twp.	Luben Burkholder Farm	Statewide	Southcentral
Franklin	Greene Twp.	R & A Bender Ldfl.	Statewide	Southcentral
Fulton	Ayr Twp.	JLG Industries	Statewide	Southcentral
Greene	Franklin Twp.	Equitrans, L.P. (Pratt Compressor Stn. #47)	Site-specific	Southwest
Indiana	Indiana Boro.	Fisher Scientific Inc.	Statewide	Southwest
Lackawanna	Scranton	Elliot Co.	Statewide	Northeast
Lackawanna	Scranton	Ingersoll-Rand Company	Statewide/Bkgrd	Northeast
Lackawanna	Scranton	Poly Hi Solidur	Statewide	Northeast
Lackawanna	North Abington Twp.	PP&L - Pole #56095n49849	Statewide	Northeast
Lackawanna	Scranton	PP&L - Pole #56475n44790	Statewide	Northeast
Lackawanna	North Abington Twp.	PP&L - Pole #56526n50832	Statewide	Northeast
Lackawanna	Old Forge Boro.	PP&L Old Forge Substation	Statewide	Northeast
Lackawanna	Scranton	PP&L - Pole #56454n46658	Statewide	Northeast
Lackawanna	Moosic Boro.	Star Pipe and Supply Co.	Background	Northeast
Lackawanna	Scranton	Suckle	Statewide	Northeast
Lackawanna	Benton Twp.	Van Fleet Residence	Background	Northeast
Lancaster	Strasburg Boro.	AMP Bldg. 129 Strasburg	Statewide	Southcentral
Lancaster	Lancaster City	Burle Ind. Inc.	Site-specific/ Statewide	Southcentral

County	Municipality	Name	Type Of Cleanup	Region
Lancaster	East Lampeter Twp.	CBS Playskool Facility Lagoon Y	Site-specific	Southcentral
Lancaster	Manheim Twp.	Elbys Big Boy 3331	Background	Southcentral
Lancaster	Lancaster City	Haddad Shoe Factory City Crossing	Industrial	Southcentral
Lancaster	West Lampeter Twp.	Lancaster Cnty. Firemans Assc. Trng. Sch.	Statewide	Southcentral
Lancaster	Manheim Twp.	Novelty Mfg. Co.	Statewide	Southcentral
Lancaster	East Hempfield Twp.	Pennfield Corp.	Statewide/ Site-specific	Southcentral
Lancaster	East Lampeter Twp.	Playskool Fac. (Formerly)	Site-specific	Southcentral
Lancaster	East Lampeter Twp.	Reese Metal Prod. Corp.	Site-specific	Southcentral
Lancaster	Manheim Twp.	Stetler Auto	Statewide	Southcentral
Lawrence	New Castle	McDuff A-Corporation	Industrial	Northwest
Lawrence	New Castle	Rockwell International	Site-specific	Northwest
Lebanon	West Lebanon Twp.	Aqua Chem Inc. Cleaver Brooks Div.	Site-specific	Southcentral
Lebanon	Lebanon City	Lebanon Steel Foundry	Industrial	Southcentral
Lebanon	East Hanover Twp.	Ono Service Center	Statewide	Southcentral
Lebanon	Lebanon City	Progress Park Lot 4	Industrial	Southcentral
Lebanon	Lebanon City	Progress Park Lot 5	Industrial	Southcentral
Lebanon	East Hanover Twp.	Tamela Kirchner Res.	Statewide	Southcentral
Lehigh	Lower Macungie Twp.	Former Hook-Up, Inc. Facility	Statewide	Northeast
Lehigh	Lowhill Twp.	Graner Property Remediation	Statewide	Northeast
Lehigh	Allentown	Paris Accessories Facility	Statewide	Northeast
Lehigh	Allentown	PP&L - Pole #62101s46421	Statewide	Northeast
Lehigh	Allentown	PP&L - Pole #62898s45606	Statewide	Northeast
Lehigh	Whitehall Twp.	PP&L - Pole #63134s48433	Statewide	Northeast
Lehigh	Bethlehem	PP&L - Pole #64413s48756	Statewide	Northeast
Lehigh	Allentown	PP&L - Pole #64481s47671	Statewide	Northeast
Lehigh	Allentown	PP&L - Pole #64174s46692	Statewide	Northeast
Lehigh	South Whitehall Twp.	PP&L - Pole #59960s47145	Statewide	Northeast
Lehigh	Emmaus Boro.	PP&L - Pole #62171s44721	Statewide	Northeast
Lehigh	Allentown	Queen City Business Ctr	Site-specific/ Industrial	Northeast
Luzerne	Wilkes Barre	Former Wilkes Barre Public Works	Industrial	Northeast
Luzerne	Kingston Twp.	James Brown Property	Statewide	Northeast
Luzerne	Wilkes Barre	Nicholson Steam Trap.	Background	Northeast
Luzerne	Wilkes Barre	PP&L - Beekman Substation	Statewide	Northeast
Luzerne	Avoca Boro.	PP&L - Avoca Substation	Statewide	Northeast
Luzerne	West Hazelton Boro.	Sandusky Lewis Facility	Statewide	Northeast
Luzerne	Wilkes Barre	Wilkes Barre General Hospital	Background	Northeast
Lycoming	Muncy Boro.	Andritz Sprout Bauer, Inc.	Background	Northcentral
Lycoming	Loyalsock Twp.	Coley's Auto Salvage	Statewide	Northcentral
Lycoming	Loyalsock Twp.	Ocker's Fuel Oil Inc.	Site-specific	Northcentral
Lycoming	Williamsport	Williamsport National Bank/Paul Welch	Industrial	Northcentral
McKean	Lewis Run Boro.	Hanley Brick Site	Industrial	Northwest
Mercer	Farrell	Farrell, City Of; (Sharon Steel Coil Yard)	Industrial	Northwest
Mercer	Sharon	Roemer Industries	Background	Northwest
Mercer	Farrell	Shenango Valley Idc. (Caparo Fin. Div.)	Industrial	Northwest
Mifflin	Armagh Twp.	Kilgore Facility (Formerly)	Site-specific/ Statewide	Southcentral
Mifflin	Granville Twp.	Masland Lewistown	Statewide	Southcentral
Monroe	Paradise Twp.	PP&L - Pole #67186n35887	Statewide	Northeast
Montgomery	Pennsburg Boro.	Annex Mfg.	Statewide	Southeast
Montgomery	Jenkintown Boro.	Benson East Apt. Facility	Statewide	Southeast
Montgomery	Horsham Twp.	Commonwealth Corp Ctr.	Statewide/ Background	Southeast
Montgomery	East Norriton Twp.	Hostrander Residence	Statewide	Southeast

County	Municipality	Name	Type Of Cleanup	Region
Montgomery	Lower Moreland Twp.	Jade Holdings Inc.	Statewide	Southeast
Montgomery	Cheltenham Twp.	Melody Dry Cleaners	Site-specific	Southeast
Montgomery	Worcester Twp.	One Man Quarry	Statewide	Southeast
Montgomery	Pottstown Boro.	PECO Hanover Substation	Site-specific/ Statewide	Southeast
Montgomery	Conshohocken Boro.	Pleasant Valley Bus Center	Industrial	Southeast
Montgomery	East Greenville Boro.	PP&L	Statewide	Southeast
Montgomery	Plymouth Twp.	Preferred Real Estate Investments	Statewide	Southeast
Montgomery	Montgomery Twp.	SGS Thomson Microelectronics	Site-specific/ Statewide	Southeast
Montgomery	Lower Merion Twp.	South Ardmore Redevelopment Project	Site-specific	Southeast
Montour	Mayberry Twp.	Doug Hawkins Residence	Statewide	Northcentral
Northampton	Bethlehem	Bethlehem Steel Corp.	Site-specific	Northeast
Northampton	Moore Twp.	C&K Carriers Release	Statewide	Northeast
Northampton	Williams Twp.	Chrin Brothers Sanitary Landfill	Statewide	Northeast
Northampton	Washington Twp.	Corporate Real Estate Ltd.	Statewide	Northeast
Northampton	Wilson Boro.	Industrial Engraving Corp.	Site-specific	Northeast
Northampton	Moore Twp.	John Brensinger Residence	Statewide	Northeast
Northampton	Northampton Boro.	Lafarge Corporation - Lot 3	Statewide	Northeast
Northampton	Bethlehem	Petrilla Fuel/Bedco	Statewide	Northeast
Northampton	Allen Twp.	PP&L - Pole #63219s50608	Statewide	Northeast
Northampton	Pen Argyl Boro.	Slatebelt Industrial Center	Site-specific	Northeast
Northumberland	Point Twp.	Bituminous Emulsion Company	Site-specific	Northcentral
Northumberland	West Chillisquaquet	Herman Banks Scrapyard	Site-specific	Northcentral
Philadelphia	Philadelphia	Action Arm Ltd.	Statewide/ Site-specific/Bckgrd	Southeast
Philadelphia	Philadelphia	Bustleton Parnters Seamans	Statewide	Southeast
Philadelphia	Philadelphia	Flying Carport Inc	Site-specific	Southeast
Philadelphia	Philadelphia	Howard Capital Corp. Prop.	Industrial	Southeast
Philadelphia	Philadelphia	Major Oil Co.	Statewide	Southeast
Philadelphia	Philadelphia	Natl. Railroad Passenger Corp.	Statewide	Southeast
Philadelphia	Philadelphia	Northeast Fence & Ironworks	Site-specific	Southeast
Philadelphia	Philadelphia	ORFA Corp. Of America Site	Industrial	Southeast
Philadelphia	Philadelphia	PA DOT	Industrial	Southeast
Philadelphia	Philadelphia	Sovereign Oil Site	Industrial	Southeast
Philadelphia	Philadelphia	US Can Co.	Background/ Site-specific	Southeast
Schuylkill	Tamaqua Boro.	Bud Development Co.	Statewide	Northeast
Schuylkill	Coaldale Boro.	Coleman Residence	Statewide	Northeast
Schuylkill	Pottsville	PP&L - Pole #42446s49389	Statewide	Northeast
Schuylkill	Tamaqua Boro.	PP&L -Tamaqua (Decommissioned) Gas Plt	Site-specific	Northeast
Warren	Brokenstraw Twp.	National Forge	Statewide	Northwest
Washington	Chartiers Twp.	Amcast/Flagg Brass Superior Valve Facility	Site-specific	Southwest
Washington	Cecil Twp.	Combustion Engineering, Inc.	Statewide	Southwest
Washington	Canton Twp.	Dean's Water Service, Inc.	Statewide	Southwest
Washington	Monongahela	Mon Valley Lincoln Mercury Dlrshp. (Frmr.)	Site-specific	Southwest
Washington	Charleroi Boro.	Washington Co. Redev. Auth.-- Ingersoll-Rand	Industrial	Southwest
Westmoreland	Upper Burrell Twp.	ALCOA Pilot Atomizer	Statewide	Southwest
Westmoreland	Derry Twp.	Latrobe Plastic Company	Site-specific	Southwest
Westmoreland	Monessen	Monessen Riverfront Redev. Project (Phs. 1)	Industrial	Southwest
Westmoreland	North Huntingdon Twp.	Norwin Dodge Facility	Site-specific/ Statewide	Southwest
Westmoreland	Hempfield Twp.	Powerex, Inc.	Statewide	Southwest
Westmoreland	South Greensburg Boro.	PPG Industries, Inc.	Statewide	Southwest

County	Municipality	Name	Type Of Cleanup	Region
Westmoreland	Murrysville Boro.	Unipack, Inc./Chemlawn Building	Statewide	Southwest
Wyoming	Overfield Twp.	PP&L -Pole #51878n49457	Statewide	Northeast
York	York City	ACCO	Industrial	Southcentral
York	Codorus Twp.	AMP Larue Bldg 31	Statewide	Southcentral
York	York City	Columbia Gas Grant St	Site-specific	Southcentral
York	Fairview Twp.	Defense Distr. Region E Frmr. Fire Trng. Area	Site-specific	Southcentral
York	York City	Electrochem	Industrial	Southcentral
York	West Manchester Twp.	Godfreys Texaco Sta. Aka A M Strickler Inc	Industrial	Southcentral
York	Springettsbury Twp.	Highland Industrial Park	Statewide	Southcentral
York	West Manchester Twp.	L G Potato Chip Co	Background	Southcentral
York	York Twp.	Liberty Mach Co	Statewide	Southcentral
York	Fairview Twp.	PP&L Distr. Pole 23743s32420	Statewide	Southcentral
York	York Twp.	Schmucks Tailors & Cleaners	Statewide	Southcentral
York	Hanover Boro.	Schuchart Oil & Propane Frly. Emeco Lagoon	Statewide	Southcentral
York	York City	Smokestack Site	Industrial	Southcentral
York	York City	Thonet Site	Industrial	Southcentral

Appendix D

Land Recycling Program Contacts, Department of Environmental Protection

"Discuss your new cleanup options with our staff"

Southeast Regional Office

Bruce Beitler

Environmental Cleanup Program Manager

Lee Park, Suite 6010

555 North Lane

Conshohocken, PA 19428

voice: 610 832-5950

fax: 610 832-6143

Counties: Bucks, Chester, Delaware, Montgomery and Philadelphia

Northeast Regional Office

Joseph Brogna

Environmental Cleanup Program Manager

2 Public Square

Wilkes-Barre, PA 18711-0790

voice: 717 826-2511

fax: 717 820-4907

Counties: Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne and Wyoming

Southcentral Regional Office

James Flesher

Environmental Cleanup Program Manager

One Ararat Boulevard

Harrisburg, PA 17110

voice: 717 657-4592

fax: 717 540-7492

Counties: Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry and York

Northcentral Regional Office

Michael C. Welch

Environmental Cleanup Program Manager

208 West Third Street, Suite 101

Williamsport, PA 17701

voice: 717 321-6525

fax: 717 327-3420

Counties: Bradford, Cameron, Clearfield, Centre, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga and Union

Southwest Regional Office

John J. Matviya

Environmental Cleanup Program Manager

400 Waterfront Drive

Pittsburgh, PA 15222-4725

voice: 412 442-5217

fax: 412 442-4194

Counties: Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington and Westmoreland

Northwest Regional Office

Craig Lobins

Acting Environmental Cleanup Program Manager

230 Chestnut Street

Meadville, PA 16335-3481

voice: 814 332-6648

fax: 814 332-6121

Counties: Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango and Warren

Central Office

Tom Fidler, Director

Land Recycling and Cleanup Program

Bureau of Land Recycling and Waste Management

PO Box 8471

Harrisburg, PA 17105-8471

information request line: 717 787-6264

voice: 717 783-7816

fax: 717 787-1904 or 717 787-0884

internet email: landrecycling@a1.dep.state.pa.us (*please note: no "i" in recycling*)

Appendix E

The Department of Community and Economic Development

Grants Office
494 Forum Building
Harrisburg, PA 17120
717 787-7120

Appendix F

Cleanup Standards Scientific Advisory Board Members

Mr. James F. Mattern
Apex Environmental, Inc.
301 W. Lancaster Avenue
Reading, PA 19607
Phone: 610 777-8200
Fax: 610 777-8430
e-mail: jmattern@apexenv.com

Dr. Ronald D. Neufeld, P.E.
Professor, Civil & Environmental Engineering
Dept. Civil & Environmental Engineering
University of Pittsburgh
949 Benedum Hall
Pittsburgh, PA 15621-2294
Phone: 412 624-9874
Fax: 412 624-0135
e-mail: neufeld@civ.pitt.edu

Mr. Donald A. Goodman
RR 3, Box 773
Hollidaysburg, PA 16648
Phone: 814 695-9649

Dr. Kevin H. Reinert
Section Manager
Environmental Toxicology & Ecological Risk Assessment
Rohm & Haas Co.
Toxicology Department
727 Norristown Road, PO Box 904
Springhouse, PA 19466
Phone: 215 641-7479
Fax: 215 619-1621
e-mail: rstchr@rohmmaas.com

Mr. Thomas Yohe, Ph.D.
Senior Manager
Water Quality
Philadelphia Suburban Water Co.
762 W. Lancaster Avenue
Bryn Mawr, PA 19010-3489
Phone: 610 645-1131
Fax: 610 645-1055
e-mail: America Online H2ODOC
CompuServe 74352,3236

Mr. Mark Urbassik, P.E.
K.U. Resources, Inc.
Suite 207
Business Innovation Center
One Library Place
Duquesne, PA 15110
Phone: 412 469-9332
Fax: 412 469-9336

Mr. Craig Robertson
Groundwater Sciences Corporation
2601 Market Place Street
Suite 310
Harrisburg, PA 17110-9307
Phone: 717 652-6832
Fax: 717 657-1611

Mr. Timothy Rea
Mountain Research Inc.
825 25th Street
Altoona, PA 16601
Phone: 800 837-4674
Fax: 814 949-2034

Mr. Terrence A. Shannon
Synergist, Inc.
110 Terrace Drive
Blakely, PA 18477-2503
Phone: 717 393-7826
Fax: 610 469-0572
e-mail: Synergst@postoffice.ptd.net
Synergist, Inc. - Pottstown Office
20 Hall Street
PO Box 126
Elverson, PA 19520
Phone: 610 286-8931

Ms. Annette Guiseppi-Elie
Exxon Biomedical Sciences, Inc.
Mettters Road
East Millstone, NJ 08875-2350
Phone: 908 873-6730
Fax: 908 873-6009
e-mail: Annette.Guiseppie@Exxon.sprint.com

Mr. Mark Mummert
ARM Group
1095 Highland Drive
Mechanicsburg, PA 17055
Phone: 717 795-9202
Fax: 717 948-4441
950 Swatara Creek Road
PO Box 111
Middletown, PA 17057
Phone: 717 948-4488
e-mail: ARMG@Epix.ne

Order Form: Land Recycling Program Documents

PLEASE PRINT:

NAME: _____

COMPANY: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____

TYPE OF BUSINESS (Circle One): Consultant; Law Firm; Industry;
Bank/Financer; Developer; Development Authority; Local Government;
Other State (government agency); Other

Items needed	Document	
_____	FS	Set of 10 Land Recycling Fact Sheets
_____	12-SB	Act 2, The Land Recycling and Environmental Remediation Standards Act
_____	13-SB	Act 3, The Economic Development Agency, Fiduciary and Lender Environmental Liability Protection Act
_____	14-SB	Act 4, The Industrial Sites Environmental Assessment Act
_____	15-CH	Citizen's Handbook to Pennsylvania's Land Recycling Program
_____	16-TM	Technical Manual - Understanding Act 2 of 1995
_____	17-PG	Industrial Sites Reuse Program (Grant and Loan Guidelines)
_____	18-BK	Program Highlights and Frequently Asked Questions (designed to help lenders, bankers, economic development agencies and developers)
_____	20-BK	First Year Progress Report

MAIL OR FAX REQUESTS TO:

Land Recycling Program
Pennsylvania Department of Environmental Protection
PO Box 8471
Harrisburg, PA 17105-8471
Fax: 717 787-1904

Information Request Line

Copies of this document or any other land recycling publications may be obtained by calling our information request line at 717 787-6264.

E-mail

Questions, comments or requests for information may be directed to the land recycling e-mail account at: landrecycling@a1.dep.state.pa.us

World Wide Web Site

Visit DEP's World Wide Web site at <http://www.dep.state.pa.us>

- < All land recycling information is available on the web. Check under "Information by Environmental Subject"; "Land Recycling and Waste Management"; "Land Recycling".
- < Alternately, the direct address for the Land Recycling Homepage is:
<http://www.dep.state.pa.us/dep/deputate/airwaste/wm/landrecy/default.htm>
- < For information on land recycling sites in your county, drop by the County Environmental Notebook section of the website.

Commonwealth of Pennsylvania
Tom Ridge, Governor

Department of Environmental Protection
James M. Seif, Secretary

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