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FEDERAL ON SCENE COORDINATOR'S REPORT

FOR

LANCASTER BATTERY SITE

MANHEIM TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

JACK L. DOWNIE
ON-SCENE COORDINATOR
US ENVIRONMENTAL PROTECTION AGENCY REGION III
WHEELING, WEST VIRGINIA

AR100031

TABLE OF CONTENTS

FACTS SHEET

FOREWORD

I. INTRODUCTION
- A. Nature of the Incident
- B. Location
- C. Efforts to Obtain Cleanup by the Responsible Parties

II. ROSTER OF AGENCIES, ORGANIZATIONS AND INDIVIDUALS
- A. Organization of the Response
- B. Glossary of Abbreviations

III. NARRATIVE OF EVENTS

IV. RESOURCES COMMITTED
- A. Funding Request
- B. Total Cost Summary

V. EFFECTIVENESS OF THE REMOVAL
- A. Activities of the Various Agencies
  - 1. Potential Responsible Parties
  - 2. Federal Agencies
  - 3. State and Local Forces
  - 4. Contractors
- B. Disposal Methods and Quantities Removed

VI. CHRONOLOGY OF EVENTS

VII. PROBLEMS ENCOUNTERED

VIII. AIR MONITORING PROGRAM

IX. APPENDICES

- A. Maps and Sketches
- B. Funding Request Document
- C. Site Safety Protocol
- D. Incoming Spill Report (RRC-1)
- E. Background Information
- F. POLREPs
- G. Photographic Documentation
- H. Legal Correspondence
- I. News Articles
- J. Manifests
- K. Delivery Order
- L. Analytical Results

PROJECT #157

REGION III
CERCLA REMOVAL ACTION

FACTS SHEET

SITE:	Lancaster Battery Site
SIZE:	Approximately one acre
LOCATION:	Manheim Township, Lancaster County, Pennsylvania
APPROVAL DATE:	March 9, 1987
PROJECT DATES:	March 10, 1987 through August 10, 1987
DESCRIPTION:	The Lancaster Battery Site was the location of a former recycler of lead from old automobile and truck batteries. The process involved breaking the batteries, removing the acid and smelting down the lead in a furnace. The process resulted in substantial release of lead to the environment. Both heavy soil contamination and off-site migration of lead particulates by air dispersion posed a substantial threat to human health and the environment making this site eligible for a CERCLA Removal Action. Air monitoring, as well as excavation and backfilling, was performed.
HAZARDOUS MATERIALS:	Heavy metals, particularly lead.
QUANTITIES REMOVED:	1,405 tons of heavy metals-contaminated soil
OSC:	Jack L. Downie
REMOVAL CONTRACTOR:	O.H. Materials, Inc., Findlay, Ohio
DISPOSAL LOCATION:	Chem Waste Management, Fort Wayne, Indiana GSX Services, Pinewood, South Carolina
PROJECT CEILING:	$588,800.00
PROJECT COST:	$448,402.63
COMMENTS:	Cooperation between federal, state and local authorities helped to eliminate this threat to the public health and the environment in a timely and professional manner.

Jack L. Downie

Jack L. Downie, OSC
U.S. EPA Region III

AR100033

Lancaster Battery Site
Manheim Township, Lancaster County, PA

FOREWORD

This report is submitted in accordance with procedures outlined in the National Oil and Hazardous Substances Contingency Plan (NCP). The primary thrust of the NCP is to provide federal response capability at the scene of an unplanned or sudden discharge of oil or other hazardous materials that pose a threat to the public health and environment. In addition, the provisions of the Comprehensive Environmental Response, Compensation, and Liability act (CERCLA) promote a coordinated federal, state, and local response to mitigate situations at hazardous waste sites which pose an immediate and substantial threat to the public health and the environment.

The presence of lead and heavy metals contaminated soils and off-site migration of lead by air dispersion at this site have met the criteria for an emergency response action to abate the risk to the public health and the environment. Thus, the provisions of the NCP and CERCLA were implemented by the U. S. EPA, Region III, Philadelphia, Pennsylvania.

Jack L. Downie

Jack L. Downie
U. S. EPA Region III
Wheeling, WV

Lancaster Battery Site
Manheim Township, Lancaster Co., PA

INTRODUCTION

A. Nature of the Incident

The Lancaster Battery Site was a former recycler of lead batteries that operated for approximately twenty years and went out of business in January 1986. At the time of this removal action, the site was owned by AIN Plastics, Inc. U.S. EPA received notification of the threat posed by high lead contamination and off-site migration of lead dust from the Pennsylvania Department of Environmental Resources (PADER) on May 28, 1986. PA Bureau of Solid Wastes and PA Bureau of Air Quality had extensive files and sampling dates from the facility dating from the middle 1970's to present. Due to the delay of the reauthorization of Superfund by Congress, CERCLA funds were not available to enable the scheduling of the assessment until December 14, 1986. On this date, the OSC responded by tasking the Roy F. Weston Technical Assistance Team (TAT) to assess the site. TAT was accompanied by Mr. Terrance Rainar of PA Bureau of Air Quality. Upon inspection, visible piles of lead slag remains and stressed vegetation were observed on the one (1) acre site. A motel and frozen food distributor were located adjacent to the site. An athletic field, owned by Franklin & Marshall College and used extensively was also adjacent to the site. Soil samples were taken and upon analysis proved high lead and heavy metal contamination. Upon consultation with federal, state and public health officials, an action memorandum was drafted. It was signed by the Regional Administrator, James Seif on March 16, 1987. The OSC immediately initiated removal activities the following day.

B. Location

The Lancaster Battery Site was a one (1) acre site located at 1330 Harrisburg Pike in Manheim Township, Lancaster County, Pennsylvania. The site was in a predominately commercial area with a large, frequently used athletic field located 40' to the south, a motel directly to the east, and a fresh and frozen foods distributor abutting the site to the north. Drainage from the site entered a tributary that eventually drained into the Susquehanna River. The City of Lancaster, located less than two miles away was served by surface water from the river.

Lancaster Battery Site
Manheim Township, Lancaster Co., PA

C. Efforts to Obtain Cleanup by the Responsible Parties

On March 11, 1987, the OSC delivered notice to three Potential Responsible Parties (PRP's) giving them until March 17, 1987 to agree to take over cleanup actions (see Appendix - H). The PRP's identified by CERCLA Enforcement were Ralph Martin, Plant Manager of AIN Plastics, the present property owners, Charles Meyers, a previous owner and past operator, and Stuart Mannix, the last known operator of the facility. There was no indication by any PRP's that they would take over cleanup actions, so the OSC initiated cleanup actions using CERCLA monies.

Roster of Agencies, Organizations and Individuals - Lancaster Battery Site

Names and Addresses	Contact	Description of Duties
U. S. EPA - Region III 303 Methodist Building Wheeling, WV 26003 (304) 233-9831	Jack L. Downie, OSC Philip Younis, Jr.OSC Paula Curtin	Federal On-Scene Coordinators, responsible for overall success of the project. Field Administrative Specialist.
U. S. EPA Headquarters 401 M St., S.W. Washington, D. C. (202) 382-4700	Victoria Van Roden	Provided guidance on interpreting new SARA regulations.
U. S. EPA - Region III Office of Public Affairs 841 Chestnut Building Philadelphia, PA 19107 (215) 597-4164	Nanci Sinclair	Responsible for media coordination during all phases of the removal project.
U. S. EPA Office of Regional Counsel Enforcement Section 841 Chestnut Building Philadelphia, PA 19106 (215) 597-9800	Walter Lee Lidia Isales	PRP investigation.
U. S. EPA Agency for Toxic Substances and Disease Registry 841 Chestnut Building Philadelphia, PA 19106 (215) 597-3154	Joyce McCurdy Charles Walters	Provided health certification outlining potential hazards associated with this site.

PR110037

Roster of Agencies, Organizations and Individuals - Lancaster Battery Site

Names and Addresses	Contact	Description of Duties
U. S. EPA Agency for Toxic Substances and Disease Registry 4770 Buford Hwy. Bldg. 30 Chamblee, GA 30341 (404) 452-4100	Kent Gray	Provided technical assistance regarding health effects and certification of hazards.
National Institute for Occupational Safety and Health Hazards Evaluation and Technical Assistance Branch 4676 Columbia Pkwy. Cincinnati, OH 45226 (513) 841-4386	Kern Anderson Dr. Bainbridge	Performed blood study on impacted employees for health hazard evaluation study.
Pennsylvania Dept. of Environmental Resources Solid Waste Management Bureau 1 Ararat Blvd. Harrisburg, PA 17110 (717) 657-4588	Gregory L. Harder Douglas Zimmerman	Initially contacted ERS requesting assistance. Provided extensive background information and prior sampling results.
Pennsylvania Dept. of Environmental Resources Bureau of Air Quality Control 439 E. King St. Lancaster, PA 17602 (717) 299-7601	Terrance Rainar William Groeber	Provided essential historical data on air monitoring at the site and background information on battery plant operations.
Pennsylvania Dept. of Environmental Resources Air Toxic Monitoring Unit P.O. Box 2063 Fulton Building Harrisburg, PA 17120 (7 787-6548	Ralph Scanlan Terry Kinsinger Jerry Ondo Gary LaBelle	Provided three high volume air samplers. Assisted the OSC with delivery, installation and initial calibration of the instruments.

Roster of Agencies, Organizations and Individuals - Lancaster Battery Site

Names and Addresses	Contact	Description of Duties
Pennsylvania Dept. of Health Division of Environmental Health - Room 825 Health & Welfare Building Harrisburg, PA 17120 (717) 787-1708	Dr. Sivarajah Dr. James Fox Dr. James Logue	Provided technical assistance to the OSC regarding health effects relative to the surrounding businesses and recreational field.
Pennsylvania Dept. of Health South Central District 2971 N. 7th Street Harrisburg, PA 17110 (717) 787-8092	Peter Gearhart	Provided on site assistance to the OSC with health related questions fielded by the media, affected surrounded businesses and the township.
Manheim Township Office 1821 Municipal Drive Lancaster, PA 17601 (717) 569-6406	Carl Neff	Coordinated with the OSC and updated other township officials on site status
Lancaster Co. Planning Commission 50 N. Duke Street Lancaster, PA 17603-1881 (717) 299-8333	David Blackman	Provided historical aerial photographs of the site.
Roy F. Weston, Inc./SPER 53 Haddonfield Rd., Suite 306 Cherry Hill, NJ 08002 (609) 482-0222	Jennifer Brown Peter Harnett John DiSciullo Shekhar Subramaniam Steve Rock	TAT - performed initial site assessment. Provided technical assistance, air monitoring program development and implementation, contractor monitoring, cost documentation, and draft OSC report.

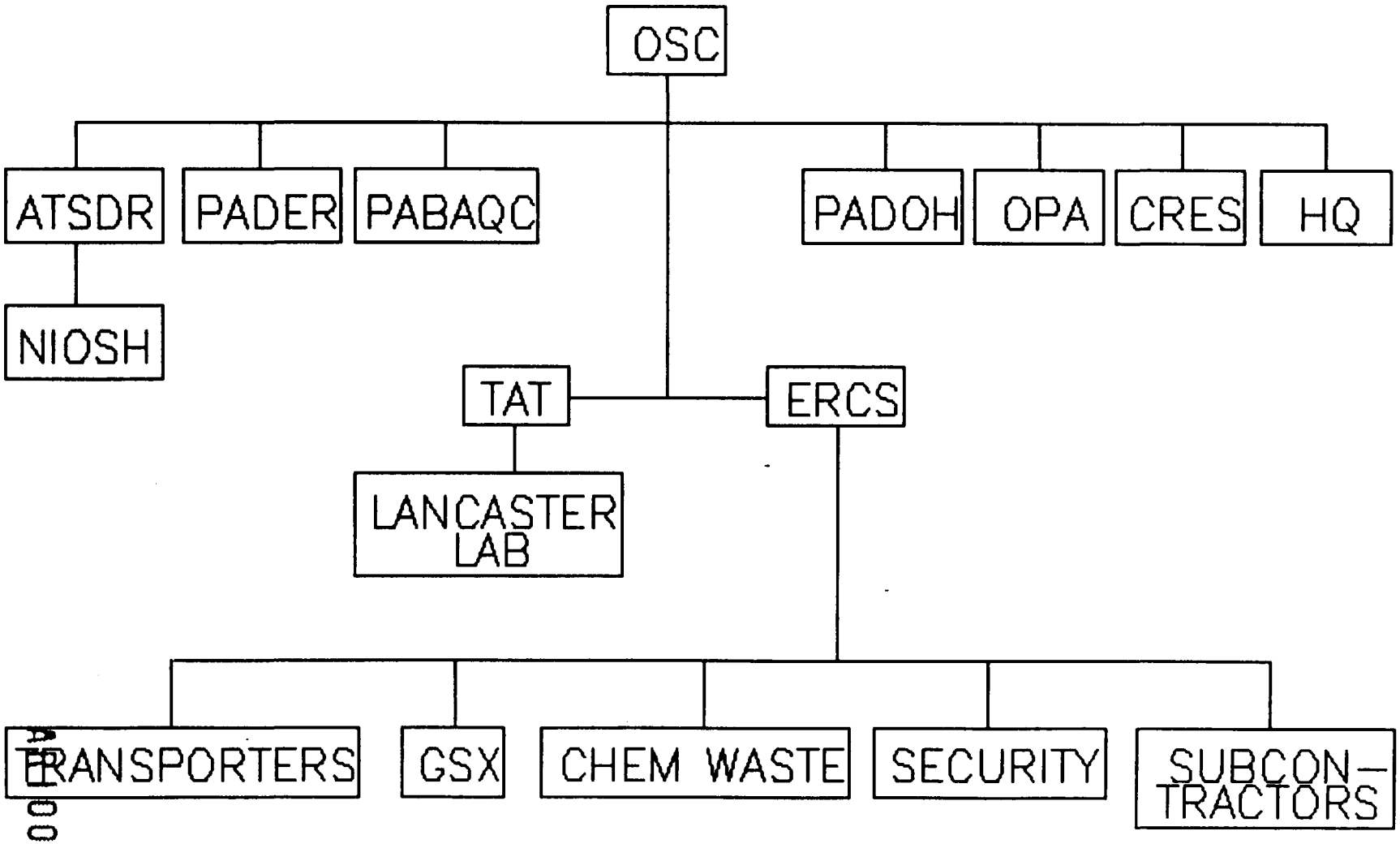
AR100039

Roster of Agencies, Organizations and Individuals - Lancaster Battery Site

Names and Addresses	Contact	Description of Duties
O. H. Materials P. O. Box 551 Findlay, OH 45839-0551 (800) 537-9540	Paul Street Frank Holcomb	ERCS - provided manpower, equipment and subcontracts to perform actual cleanup actions.
Franklin & Marshall College P. O. Box 3003 Lancaster, PA 17604-3003 (717) 291-3998	John Hershey	Provided parking for the command post, decontamination trailer and EPA vehicles. Principle contact with the college for removal work done on their property.
Lancaster Labs 2425 New Holland Pike Lancaster, PA 17601-5994 (717) 656-2301	Barbara Weaver, CIH	Provided sample analysis on soil and air samples.
Burnham Textile Corp. 1237 Harrisburg Pike Lancaster, PA 17604 (717) 397-4701	John Butzer	Provided off-site location for background air monitoring survey along with access to the unit on off business hours.
Arnold Anderson Landscaping 307 Donna Avenue Lancaster, PA 17603 (717) 872-6137	Arnold Anderson	Subcontractor - seeded, mulched and compacted the restored area.

AR100046

LANCASTER BATTERY SITE
ORGANIZATION OF THE RESPONSE



Lancaster Battery Site
Manheim Township, Lancaster County, PA

GLOSSARY OF ABBREVIATIONS

ATSDR	Agency for Toxic Substances and Disease Registry
CRES	U. S. EPA CERCLA Removal Enforcement Section
ERCS	Emergency Response Cleanup Services
HQ	U. S. EPA Headquarters
NAAQS	National Ambient Air Quality Standard
NIOSH	National Institute for Occupational Safety and Health
OPA	U. S. EPA Office of Public Affairs
OSC	U. S. EPA On Scene Coordinator
OSHA	Occupational Safety & Health Administration
PABAQC	Pennsylvania Bureau of Air Quality Control
PADER	Pennsylvania Department of Environmental Resources
PADOH	Pennsylvania Department of Health
PEL	Personal Exposure Limit
TAT	Roy F. Weston, Inc., Technical Assistance Team

Lancaster Battery Site
Manheim Township, Lancaster County, PA

NARRATIVE OF EVENTS

The Lancaster Battery Site had been a concern of the State of Pennsylvania since the early 1970's. The greatest concern was that of the off-site migration of lead dust that occurred while the facility was operational. The Parkside Motel was located directly next to the site as well as Banner Foods, a fresh and frozen poultry foods distributor. There was also an extensively used athletic field, owned by Franklin & Marshall College next to the site. Lead-contaminated soil, as well as an unlined lagoon, were also of concern. The facility had been cited previously by the Commonwealth of Pennsylvania for air quality violations. They were also cited by Pennsylvania Department of Resources (PADER) for operating a lagoon without a permit. PADER Bureau of Solid Waste and Bureau of Air Quality have extensive files on the site dating back to the mid 1970's. In January 1986, the company went out of business and the property was sold to AIN Plastics. AIN Plastics indicated that they were unaware of any environmental contamination when they purchased the property. The site covered approximately one acre with contamination spread over the entire site (see maps and sketches - Appendix A). A preliminary assessment performed by the State in March of 1986 revealed that there was still off-site migration of lead dust occurring and that some of the soil contained lead concentration as high as 50%.

On May 28, 1986, the U.S. EPA Region III Emergency Response Section was notified of the State findings along with an official request from the State for assistance from the EPA to mitigate the problem. A preliminary assessment was performed by the Roy F. Weston Technical Assistance Team (TAT) on December 11, 1986. The reason for the lapse in time between notification and response was due to the fact that the Superfund Bill had not yet been reauthorized by Congress, and funds were extremely low. Only acutely hazardous and emergency situations could receive funding at that time. Samples taken on the TAT assessment essentially confirmed the State's results. An action memorandum was drafted and signed by the Regional Administrator on March 10, 1987. On March 11, 1987, PRP notices were delivered to 3 PRP's, giving them until March 17, 1987 to claim responsibility and take over the cleanup. No response was received from any PRP, so the EPA initiated cleanup actions. The first step was to consult with the PADER, as well as the Pennsylvania Department of Health (PADOH), National Institute of Occupational Safety and Health (NIOSH) and ATSDR. A work plan was drafted and a comprehensive air monitoring program was developed for implementation before, during and following excavation activities. The township and local affected businesses were notified of EPA intentions to begin removal actions. On March 18, 1987, additional soil

samples were taken to more fully delineate extent of contamination. On March 19, the high-volume air monitoring survey began. On March 23, 1987 ERCS mobilized to the site to begin excavation. During excavation, all personnel in the hot zone were dressed out in Level C personal protective gear. Excavation and staging of contaminated soil continued until March 29, 1987.

Gilian pumps were attached to ERCS equipment and personnel in the breathing zone to effectively determine if the level of protection was appropriate during excavation. A high-volume air monitoring program determined off-site migration before, during and after excavation which determined threat and dust control measures to be taken. NIOSH was also on site during this period to take blood samples from employees of the Parkside Motel and AIN Plastics to determine blood lead content and long-term exposure issues. ERCS demobilized on March 29, 1987 with activities to resume upon receipt of disposal approval from disposal facilities.

On May 8, 1987, the OSC received approval from three facilities, Chem-Waste in Emelle, Alabama, Chem-Waste in Fort Wayne, Indiana and GSX services in Pinewood, South Carolina. The OSC chose to use GSX and Chem-waste in Fort Wayne due to lower transportation costs. On May 11, 1987, EPA, ERCS and TAT remobilized to the site for the transportation and disposal phase of the project. Sixty-eight (68) trucks were loaded for a total of 1405 tons of heavy metal-contaminated soil. An additional 6-12" of soil from beneath the staged soil pile was also excavated and disposed. Additional samples were then taken by TAT to determine "how clean is clean" and all personnel demobilized to return upon receipt of sample results.

On May 27, 1987, the OSC received analytical results from Lancaster Labs. The results were discussed with State and Federal health officials. They determined that there was no problem with leaving the residual levels of lead on site under a restorative cover as long as the surrounding businesses and property owners are aware that residual lead levels remained and that the area remained undeveloped with grass cover. It was determined that one foot of clean soil would sufficiently restore and cover the remaining residual lead contamination.

On June 1, 1987, EPA, TAT and ERCS remobilized on site to continue restoration activities. ERCS spread clean top soil over the entire excavated area to a thickness of 1 to 2 feet. On June 2, 1987, ERCS subcontracted the Arnold Anderson Landscaping Company who compacted, seeded and mulched the restored area. All personnel and equipment then demobilized with the final air monitoring survey to be conducted when the vegetative cover began taking hold.

Lancaster Battery Site
Manheim Township, Lancaster County, PA

On June 23, 1987, TAT performed a site inspection on the restoration to determine if stabilization was taking hold. Some erosion gullies were noticed across the restricted area. These were due to unseasonably heavy rains which had occurred since site restoration. The OSC was notified of the problem and directed ERCS to repair the restorative cover. ERCS landscaping subcontractor resolved this issue on June 26, 1987.

On July 7, 1987 with the restoration firmly in place, TAT returned to the site to perform the final high-volume air monitoring survey.

Lancaster Battery Site
Manheim Township, Lancaster County, PA

RESOURCES COMMITTED

A. Funding Request

Subsequent to site investigations/assessments by the Pennsylvania Department of Environmental Resources (PADER) and Roy F. Weston Technical Assistance Team (TAT), EPA On-Scene Coordinator, Jack Downie submitted a removal funding request (Appendix B). The funding document estimated total project costs at $588,800.

B. Total Cost Summary

Extramural	
A. ERCS Contractor	$ 393,314.75
B. Technical Assistance Team	36,818.00*
Extramural Total	$ 430,132.75
Intramural	
A. EPA Region III	$ 11,317.98**
B. EPA Headquarters	6,951.90
Intramural Total	$ 18,269.88
Total Project Cost	$ 448,402.63
Project Ceiling	$ 588,800.00

* estimated administrative costs
** estimated costs

Lancaster Battery Site
Manheim Township, Lancaster County, PA

EFFECTIVENESS OF THE REMOVAL

A. Potential Responsible Parties

At the request of U. S. EPA On-Scene Coordinator (OSC) Jack Downie, CERCLA Removal Enforcement Section (CRES) conducted a Potential Responsible Party (PRP) search. CRES identified three PRP's, including present property owner and two former owner/operators. The OSC notified the PRP's in writing of their opportunity to perform a voluntary cleanup; all three declined. CRES was also unable to elicit a voluntary cleanup. Therefore, the OSC utilized CERCLA funds to mitigate the threat.

B. Federal Agencies

The Lancaster Battery Site Removal Action was conducted by the U. S. Environmental Protection Agency Region III. Jack L. Downie of the Wheeling, WV Field Office served as On-Scene Coordinator (OSC) for the project's duration. OSC Downie directed the project's activities and coordinated efforts between participating agencies.

The EPA Region III Office of Public Affairs (OPA) conducted a community relations program which involved meeting with owners of adjacent businesses and college officials. Meetings with township supervisors before the cleanup began was also handled through Nanci Sinclair, OPA official. OPA served as a liaison between the media and the OSC. Press conferences were scheduled by the OPA to assist the OSC with a well directed media presentation.

The CERCLA Removal Enforcement Section (CRES) of EPA performed a search for potential responsible parties (PRPs). Three parties were identified and their names and addresses were turned over to the OSC for notification.

The Agency for Toxic Substances and Disease Registry (ATSDR) evaluated site analytical data and certified the site as a health threat to the surrounding population.

The National Institute for Occupational Safety and Health (NIOSH) performed a health study on workers at the facility and adjacent businesses to determine long-term health effects of workers.

C. State and Local Forces

The Pennsylvania Department of Environmental Resources (PADER) Bureau of Solid Waste Management and Bureau of Air Quality performed initial assessments at the Lancaster Battery

Site. As a result of their findings, PADER contacted EPA Region III to propose the site be considered for removal. PADER also verbally certified that the site posed a health threat due to extremely high lead levels found in the breezeway of the adjacent motel. PADER remained involved throughout the removal by providing the On-Scene Coordinator with background process information and historical analytical data.

Officials of Manheim Township assisted the OSC in relations with residents of the nearby community.

D. Contractors

Roy F. Weston, Inc., Spill Prevention and Emergency Response Division provided personnel from the Technical Assistance Team (TAT) to provide technical support to the OSC. TAT performed the initial site assessment, drafted documents, performed site safety monitoring, contractor monitoring, cost tracking documentation and prepared the scope of work for the removal. TAT prepared the extent-of-contamination study, site safety protocol, and assisted OPA with community relations.

O. H. Materials Company was the ERCS prime contractor responsible for providing the manpower, equipment and material necessary for the removal. O. H. Materials explored disposal options, and arranged for the transportation and disposal of the contaminated material through subcontract.

E. Disposal Methods and Quantities Removed

Areas of contaminated soil were identified through extensive sampling as part of the extent-of-contamination study developed by TAT. The contaminated soil was excavated by machine to a depth of one to two feet and staged in a prepared area on the site. Waste soil was then transported by hazardous waste hauling trucks to two permitted hazardous waste landfills; Chemical Waste Management, Fort Wayne, Indiana and GSX Services in Pinewood, South Carolina. Manifests are included in Appendix J of this report.

Lancaster Battery Site
Manheim Township, Lancaster County, PA

CHRONOLOGY OF EVENTS

The following is an account of events which occurred prior to and during the Lancaster Battery Site CERCLA Removal Action. Further details of the removal action can be found in the various Appendices to this report.

May 25, 1986

PADER Solid Waste Specialist, Greg Harder, reports severe lead contamination and off-site migration via air dispersion to U. S. EPA Region III Response Center (see Appendix L).

December 11, 1986

A site assessment was performed by the Roy F. Weston, Inc., Spill Prevention and Emergency Response (SPER) Division, Technical Assistance Team (TAT). U. S. Environmental Protection Agency (EPA) Region III Senior On-Scene Coordinator (OSC), Michael Zickler directed the TAT assessment of the Lancaster Battery Site in Manheim Township, Lancaster County, PA based on preliminary investigations of the Pennsylvania Department of Environmental Resources (PADER). TAT personnel, accompanied by Terrance Rainar, PADER Air Quality Specialist, collected fifteen (15) soil samples for analysis and made the following observations:

- A motel was located east within 5 feet of the site.

- A fresh and frozen poultry food distributor with open air loading docks abutted the site to the north.

- An extensively used athletic field was located across a secondary road to the south.

- Piles of lead slag and stressed vegetation were evident throughout the site.

- The site was unfenced and unsecured.

The reason for the lapse in time between notification and response was due to the fact that Congress was delaying with reauthorization of the Superfund Bill and the fund was low. Only the extremely acute hazardous situations could get funding at that time.

December 29, 1986

Analytical package was received from samples taken on 12/11/86. The data was submitted for internal QA/QC review.

Lancaster Battery Site
Manheim Township, Lancaster Co., PA

December 30, 1986

Based on analytical results, Senior OSC Zickler directed TAT to compile a data package of background information and current analytical results and forward it to the Agency for Toxic Substances and Disease Registry (ATSDR) for health threat certification.

An action memorandum was drafted and held pending ATSDR recommendations.

January 12, 1987

The OSC forwarded a copy of the Action Memorandum and other pertinent background information to the EPA Enforcement Branch and EPA Office of Public Affairs.

January 13, 1987

Due to the heavy workload of Senior OSC Zickler, the Lancaster Battery Site case was reassigned to OSC Jack Downie of the U.S. EPA Region III, Wheeling, WV office.

January 20, 1987

Under the direction of OSC Downie, TAT began exploring options for treatment/disposal of the contaminated soil.

February 3, 1987

OSC contacted Pennsylvania Department of Health (PADOH), Peter Gearhart to discuss EPA analytical results and associated information regarding the Lancaster Battery Site. Health Specialist Gearhart requested notification and inclusion on the next site visit by the EPA to better familiarize himself with site set up and sample locations.

Teleconference was held with OSC Downie, Agency for Toxic Substances and Disease Registry Specialists Kent Gray and Charles Walters, Pennsylvania Department of Health Specialists Dr. Logue, Dr. Sivarajah, Dr. Fox and Pennsylvania South Central District Department of Health Specialists, Peter Gearhart and Milton Stanley. Discussed were the possible health effects of future EPA removal activities on site and with adjoining businesses. PADOH requested additional off-site sampling to determine historical off-site migration routes. OSC informed the health officials that an additional site inspection with sampling was planned for February 6, 1987.

OSC Downie contacted the Occupational Safety and Health Administration (OSHA) District Supervisor, Dave Rochsecca, to inform his office of the potential EPA removal action and to see

AR160050

if they had additional background information.

February 6, 1987

OSC Downie, Technical Assistance Team members Jennifer Brown and Shekhar Subramaniam, PA Department of Health Specialist Peter Gearhart and PA Department of Environmental Resources Air Quality Bureau Specialist Terrance Rainar met on site to perform a site inspection to assess any changes in site condition since the last assessment and to review logistics of the potential removal activities. No changes in site condition were noted.

TAT took four additional soil samples from the site and adjoining properties to confirm extent of contamination and off-site migration. Two wipe samples and one composite dust sample was taken by TAT from inside the storage warehouse located on site.

PADER Rainar collected three vacuum cleaner bags from the Parkside Motel. One of the bags was used by the janitorial personnel in cleaning the rooms, one used in cleaning the office and one new bag that Rainar used for collecting a sample from the outside breezeway. The samples were turned over to the OSC for analysis.

The action memorandum was submitted to the chain of concurrence for approval.

OSC Downie met with Ralph Martin, Manager of AIN Plastics, present owner of the buildings and property, to explain EPA actions to date and future plans. Martin assured OSC Downie that AIN will cooperate with the EPA and gave permission to obtain access to the site at any point.

OSC Downie met with Paul Steinmetz, Manager of Banner Foods Co., to explain potential site activities and to determine property lines.

March 9, 1987

A site safety plan was developed by TAT personnel. Analytical results from the 2/6/87 sampling round were received. Since laboratory analysis received QA/QC through EPA Contract Lab Program, internal QA/QC was not required.

A comprehensive air monitoring survey, developed by TAT Member Peter Harnett, was submitted to OSC Downie for approval and comment.

March 10, 1987

The action memorandum was signed by the Regional Administrator.

Lancaster Battery Site
Manheim Township, Lancaster County, PA

March 11, 1987

OSC delivered notice to 3 PRP's giving them until 3/17/87 to agree to take over cleanup actions.

March 13, 1987

Teleconference was held with OSC, ATSDR, PADOH, EPA/OPA and TAT. Discussion included signed funding request and project startup, PRP notice, core samples to be taken to further delineate extent of contamination, results from the last round of sampling, meeting with Franklin & Marshall College representatives and the press conference to be held on 3/18/87. OPA Sinclair explained that a public meeting is not scheduled at this time. The air monitoring program developed by TAT was explained and discussed. Alternatives concerning necessary actions that need to be taken at the Parkside Motel were explained by the health officials. Alternatives included: A) clean carpet thoroughly; B) replace carpet; C) clean the rooms thoroughly. ATSDR will request NIOSH involvement due to the high levels of lead found at the motel and on site warehouse, as well as, the close proximity of the athletic field. The blood sample results from the Banner Food personnel independent testing were explained. The results showed the highest blood lead levels being 18 ppb which is considered within the normal range. PADOH, ATSDR and NIOSH will determine needs for further actions within the facilities.

OSC contacted AIN Plastics Manager, Ralph Martin, concerning the analytical results from inside his storage warehouse. Mr. Martin was advised of the extremely elevated lead levels found inside the warehouse and of possible employee exposure.

March 16, 1987

Teleconference again held with OSC, NIOSH, PADOH and ATSDR. NIOSH committed to do a blood study and health hazard evaluation study on the motel and AIN Plastics employees. Discussed the possibility of hotel cleanup. NIOSH requested additional background information to properly assess the situation.

March 17, 1987

TAT acquired historical aerial photographs from the Lancaster County Planning Commission. OSC and TAT attempted to locate the exact location of the lagoon mentioned in the PADER file that was in operation in the early 1970's. This would assist in the extent-of-contamination survey, however, the photographs showed the lagoon to be under the present storage warehouse.

Meeting held at the Manheim Township building with OSC Downie, OPA Sinclair, TATM Brown, ERCS Response Manager,township officials and a representative from Franklin & Marshall College. Nanci

Lancaster Battery Site
Manheim Township, Lancaster County, PA

Sinclair explained EPA actions to date and background. Question and answer period enabled the officials to air some of their concerns and questions. OSC explained EPA plans for the removal action and sampling strategies for tomorrow. Township and college officials were fully cooperative with EPA needs.

March 18, 1987

TAT took additional surface samples and six core samples on site to better delineate the extent of contamination.

OPA Sinclair held a press conference on site. OSC Downie, ATSDR Walters and PADOH Gearhart assisted the OPA with health related questions and site startup logistics.

March 19, 1987

TATMs work with Pennsylvania Bureau of Air Quality Control (PABAQC) personnel to set up high-volume air monitoring units. Sample locations are 1) off site on the edge of the athletic field; 2) on site; and 3) approximately one-half mile away on the rooftop of Burnham Textile Corporation. Background/baseline air monitoring survey began this date.

Command post arrived on site.

March 20, 1987

TAT continued with the high-volume air monitoring survey. Samples collected over the 24 hour period were delivered to Lancaster Labs for analysis. PADER Air Quality Bureau representative Rainar on site to inspect the air monitoring program developed by TAT.

March 23, 1987

ERCS mobilized on site to begin cleanup activities. Excavation and staging of contaminated soil began this date. ERCS personnel working in Level C personal protective gear. Gilian pumps were attached in the breathing zone on the workers and in the heavy equipment as part of the air monitoring program. High-volume air sampling continued. Phone lines were installed in the command post. Security guards were hired by ERCS for night security measures.

Television crew on site to film excavation activities.

Lancaster Battery Site
Manheim Township, Lancaster County, PA

March 24, 1987

Excavation activities continued. OSC and TAT visit Parkside Motel and AIN Plastics to inform the owners/managers of the work plan, what will be excavated from their property and restoration plans. High volume air sampling continued. An underground tank was discovered and sampled by TAT (pH=7). NIOSH epidemiologist (Anderson) was on site to begin blood sampling of volunteer employees of the Parkside Motel, AIN Plastics and groundskeepers from Franklin & Marshall College.

March 25, 1987

TAT continued the high-volume air survey, Gilian pump air sampling and soil sampling. Excavation and staging of contaminated soil continued. PADER Solid Waste Specialist, Greg Harder, on site this date to help with investigation of lagoon and underground tank. PADER Air Quality Specialist, Terry Rainar, on site to provide background information on plant operations. PADER Harder and TAT spoke to Ralph Martin of AIN Plastics, who gave them permission to enter AIN Plastics storage building where the underground tanks were located. An underground cement holding tank with approximate dimensions of 8' by 8' by 8' was found containing about 6-8" of neutral pH sludge in the bottom. Two pipes were traced leading from the tank ending about 6' away from wall about 1' underground. Mr. Martin was questioned about an underground acid tank that the State had mentioned in their historical reports. He said this was removed and disposed of as part of the purchase agreement when the property was bought.

March 26, 1987

ERCS continued with excavation activities with an estimated 800 cubic yards staged to date. TAT continued the air monitoring survey. Soil samples were taken off-site in the athletic field and from just across Vermont Avenue, as well as on site. A sample was obtained from the holding tank located in the storage warehouse. A second small holding pit was found in the storage building which was also sampled. All samples were delivered to Lancaster Labs.

ERCS addressed the gross contamination inside the storage warehouse by sweeping the walls and the floor. During the cleaning, a third pit was found in the floor of the warehouse.

March 27, 1987

Phase one of excavation activities were completed this date. Media interest remained high. Bob Bosich of Pennsylvania Attorney General's Office was on site to speak to the OSC regarding a briefing on site actions to date prior to a hearing

scheduled for April 15, 1987. High volume air monitoring survey continued.

March 28, 1987

On-site restoration began this date. How clean is clean soil samples were taken to determine if additional excavation was needed. High volume air monitoring stations were disassembled to be returned to PADER Air Quality Bureau in Harrisburg, PA. ERCS decontaminated equipment not used for site restoration for subsequent demobilization.

March 29, 1987

Site restoration in excavated areas along Parkside Motel and Vermont Avenue completed. ERCS demobilized this date until disposal approval is granted. Staged material secured with visqueen and a canvas tarp with erosion control measures implemented.

April 1, 1987

OSC received a letter from a PRP (Mannix) lawyer concerning legal questions arising from EPA removal activities. OSC forwarded the letter to EPA Regional Counsel, Lidia Isales for review and response.

April 2, 1987

High-volume air sampling equipment returned to PADER.

May 5, 1987

Preliminary results of blood tests taken from Parkside Motel and AIN Plastics personnel were received from NIOSH. All blood lead levels were within accepted norms.

May 8, 1987

OSC received disposal approval from 3 facilities.

They are:
1) Chem-Waste in Emelle, Alabama - $100 per ton, 1000 miles.
2) Chem-Waste in Fort Wayne, Indiana - $114.50 per ton, 538 miles.
3) GSX Services in Pinewood, South Carolina - $118 per ton, 560 miles.

OSC chose to use Chem-Waste in Fort Wayne since it was the most economically feasible location in considering both transportation and disposal fees. Due to the fact that Fort Wayne could only accept 10 trucks per day, the OSC may deem that the next most

economically feasible facility, GSX Services, would also be used depending on the number of haulers available each day and how fast the haulers could be loaded.

OSC contacted PA Department of Health representative Gearhart, the Manheim Township Supervisor and the officials at Franklin & Marshall College to notify them of upcoming disposal activities.

May 11, 1987

OSC mobilized ERCS and TAT on site to begin the transportation and disposal phase followed by final restoration.

May 12, 1987

Transportation and disposal activities began this date. Ten 40-yard roll-off box haulers were loaded. The trucks were weighed to assure that close to a maximum weight was received per loaded mile. ERCS contacted a scrap yard approximately one-quarter mile down Harrisburg Pike to utilize their scales. Two hundred and ten (210) tons of contaminated soil was shipped this date.

A press conference was held on site by EPA/OPA Sinclair. PA Department of Health Specialist Gearhart was on site to assist with health-related issues. OSC Downie was available for briefing on site activities.

OSC received the National Institute of Occupational Safety and Health (NIOSH) Health Hazard Evaluation report from K. Anderson. The report supported the verbal results received on May 5, 1987 that all results were within accepted norms.

May 13, 1987

Transportation and disposal activities continued. Eleven 40-yard haulers were loaded and shipped off site this date - 10 to Fort Wayne, and 1 to GSX Services in Pinewood, South Carolina. Total tonnage shipped off site thus far was 435.8 tons. Air monitoring survey continued. An additional funding request was drafted as a contingency. Peter Gearhart, PADOH stated that according to the NIOSH report, the carpet in the Parkside Motel office need not be replaced by EPA. After consulting with Pennsylvania State Toxicologist, Dr. Sivarajah, the decision was made to resample before making a final decision. A vacuum bag dust sample was obtained for analysis.

May 14, 1987

Transportation and disposal activities continued. ERCS was having difficulty with the waste hauling subcontractor; number of trucks on site not consistent with number promised. To date,

AR100056

tons of contaminated soil transported off-site for disposal.

May 15, 1987

Transportation and disposal activities continued. Ten additional haulers loaded and off site this date. Operations were held up due to rain. Disposal facilities may not accept soil if it is too wet. Six hundred and ninety-one (691) tons contaminated soil shipped off site to date; 510 tons to Chem-Waste and 180 tons to GSX Services.

May 16, 1987

Transportation and disposal of lead-contaminated soil continued. Fourteen (14) haulers loaded this date. Total tons of soil shipped off-site to date was 988 tons; 703 tons to Chem-Waste, 285 tons to GSX Services. TAT sampled eastern half of excavated staging area for how clean is clean survey.

May 18, 1987

Transportation and disposal of lead-contaminated soil completed this date. An additional 6-12" of soil from beneath staging pile was also excavated and disposed of. Twenty (20) haulers loaded this date. Total tons of soil disposed of was 1405 tons. Site inspection was performed by Jr. OSC Younis prior to demobilization of crew.

May 19, 1987

ERCS demobilized this date. How clean is clean sampling was performed. Fourteen samples taken from a grid pattern of the excavated area between AIN Plastics and Banner Foods were taken for analysis. OSC anticipated starting restoration phase upon receipt of favorable sample results. Peter Gearhart, PADOH on site this date to inform Banner Foods, AIN Plastics, Parkside Motel and Franklin & Marshall College of NIOSH results and to direct them to post these results for the employees according to OSHA regulations.

May 22, 1987

OSC contacted EPA HQ Victoria Van Roden concerning the Parkside Motel carpet. According to HQ, replacement of the carpet in hotel office does not fall under the SARA clause which does not allow cleanup funds to be expended inside private homes and businesses. According to Van Roden, CERCLA funds can be expended to replace the carpet since the contamination came from migration from the Lancaster Battery facility.

Lancaster Battery Site
Manheim Township, Lancaster County, PA

May 27, 1987

Analytical results from how clean is clean sampling round on May 1987 were received from Lancaster Labs. (See analytical section in Appendix L)

May 28, 1987

Teleconference held with OSC (Downie), TAT (Brown), PADOH Gearhart, Stanley, Sivarajah, Fox, Logue), ATSDR (McClanahan, McCurdy) concerning whether or not the restoration phase of this project could start. ATSDR and PADOH health officials felt that there were no problems leaving residual lead levels in place as long as the owners and surrounding businesses were aware and the area remained undeveloped with a restorative cover. The health officials concurred that approximately one foot of clean soil with grass cover would sufficiently restore and cover the remaining residual lead contamination and effectively mitigate the threat to human health.

May 29, 1987

TAT performed a site inspection and tested the soil for pH. Readings of 6.2 and 6.8 were obtained with litmus paper. Two samples were taken and delivered to the lab for pH analysis. Perimeter inspection of erosion control measures revealed soil stability of no immediate concern.

June 1, 1987

Restoration activities commenced this date. OSC, ERCS and TAT mobilized to the site. Three hundred (300) cubic yards of top soil was delivered to the site. ERCS spread the top soil over the entire evacuated area to a thickness of 1 to 2 feet.

June 2, 1987

ERCS subcontractors compacted, seeded and mulched the backfilled area this date. EPA/OPA Sinclair on site to coordinate closing activities with press and property owners. EPA, TAT and ERCS demobilized from the site upon completion of restoration activities. Final air monitoring survey will be conducted after restorative measures take hold.

June 23, 1987

TAT performed site inspection to see how site stabilization was taking hold. Unseasonably heavy rains had caused some erosion gullies across a section of the restored area. This information was passed to OSC Downie who then directed ERCS to contact their subcontractor to remedy this matter.

Lancaster Battery Site
Manheim Township, Lancaster County, PA

June 26, 1987

ERCS landscaping subcontractor on site this date to perform the necessary erosion control measures and to repair any damage to the restorative cover. Matting was utilized to reduce future erosion problems.

July 9, 1987

TAT borrowed high-volume air sampling equipment from, the Pennsylvania Bureau of Air Quality Control (PABAQC) and set up monitoring stations for the final air monitoring survey.

July 10, 1987

Final high-volume air monitoring survey began.

July 11, 1987

Continued with the final air monitoring survey.

July 12, 1987

Continued with the final air monitoring survey.

July 13, 1987

Continued with the final air monitoring survey.

July 14, 1987

Final high-volume air monitoring survey completed. Samples dropped off at Lancaster Labs for analysis. Monitoring equipment returned to PABAQC. Site to be closed upon receipt of favorable results from final air monitoring survey.

July 30, 1987

Analytical results from final air monitoring study received this date. Results indicated a reduction of airborne lead levels, relative to baseline samples. None of the samples exceeded the national ambient air quality standards.

August 10, 1987

Site officially closed by OSC Downie.

Lancaster Battery Site
Manheim Township, Lancaster County, PA

PROBLEMS ENCOUNTERED

The removal action at the Lancaster Battery Site encountered no serious problems. For the most part, all phases were carried out smoothly. Only two minor problems occurred. One problem was that ERCS hauling subcontractor was not consistent during the early days of the transportation and disposal phase of this project. The number of trucks on site daily were not consistent with the number of trucks promised.

The other problem encountered was with the unseasonably heavy rains which occurred in early June 1987. After site restoration on June 2, 1987, heavy rains occurred which caused some damage to the backfilled area. Some erosion channels were formed, but they did not cut deep enough to expose the soil with residual lead contamination. This problem was resolved promptly by the ERCS landscaping subcontractor. Site stabilization has taken hold very well since additional erosion control measures were taken.

LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

I. METHODS AND MATERIALS

A. Equipment and Calibrations

Area air sampling was performed using the General Metal Works, Inc., Village of Cleves, Ohio, Model GMWS-2310 Accu-Vol air sampling system or its equivalent. The equipment meets the EPA specifications for collecting suspended particulates as defined in the April 30, 1971 Federal Register Volume 36, Number 84. The shelter was made of aluminum and stood 4 feet 4 inches high with the filter assembly located at 3 feet 6 inches. The shelter was attached to an aluminum platform which was 3 feet high resulting in the filter assembly height of 6 feet 6 inches. Calibration charts were generated by the Pennsylvania Department of Environmental Resources (PADER) Bureau of Air Quality Control. All of the high volume air samples were calibrated within the last 1,000-hour period of operation. The calibration was done using a calibrating orifice assembly and water manometer.

Personal air sampling was performed using the Gilian Instrument Corp., Wayne, New Jersey, Model HFS113UT constant flow air sampling pump. The equipment meets the NIOSH/OSHA specifications for collecting lead and suspended particulates as defined in NIOSH Method P & CAM S341. 37mm mixed cellulose ester filters made by SKC, Inc., Eighty-Four, Pennsylvania were used in the 3-piece close-faced cassette unit. Pre and post sampling calibration were performed using the bubble meter as a primary calibration method. The authentic mean average of the pre and post calibrations was used as the flow rate for any sampling run.

B. Area Samples

Glass fiber filters (8" x 10") were placed on high volume samplers with flow rates of 35 to 45 cu. ft./minute. The filter and samples were located inside of housing designed to prevent settleable particulates from being included among the total suspended particulates pulled on to the glass fiber filter. The on-site and athletic field samples were run at 6 feet, 6 inches above ground level. Samples were either run for 6 hours or 24 hours. Glass fiber filter field blanks were sent for each respective day of area sampling. The filters were analyzed for total suspended particulates and lead. A select group of four area samples were analyzed for arsenic during the post-excavation area air sampling.

C. Personal Samples

37mm mixed cellulose ester filters were placed in 3 stage cassettes. The personal air sampling was performed using a close-faced cassette and flow rates of 2.0 liters/minute. Four

I. METHODS AND MATERIALS (continued)

personal samples were done on all but the first day of excavation. On a number of occasions the Gilian HFS113UT pump and cassette were attached to equipment rather than the equipment operator or employee. No post-excavation personal samples were performed because no one was working on site during this time period. Since the equipment was not separated from the outside air like the employees were when sitting in a cab, it was apparent that attaching the air sampling train to the equipment should result in higher levels of airborne lead. Also, the equipment remained on site all day, while the employees go off-site for breaks and lunch.

D. Analyses

Area glass fiber filters were analyzed for lead using EPA Method 600/4-77-027a.

The 37mm mixed cellulose ester filters were analyzed for lead using NIOSH Method P & CAM S341.

II. AIRBORNE LEAD STANDARDS AND LEVEL OF PERSONAL PROTECTION

The National Ambient Air Quality Standard (NAAQS) for lead is 1.5 micrograms/cubic meter for a 24-hour period per quarter. This is the appropriate standard to reference for the area air sampling that was performed. It is noteworthy that ambient lead levels have decreased significantly during the past 15 years. More stringent regulations controlling industrial emissions of lead have probably had some effect on ambient lead levels, but the most significant reason for the decrease in ambient air levels of lead is due to the greatly decreased usage of leaded gasolines.

The Occupational Safety and Health Administration 8-hour Permissible Exposure Limit (OSHA-PEL) for lead is 50 micrograms/cubic meter. This is the appropriate standard to reference for employees exposed to airborne lead. As a result, it is the appropriate standard to reference for the personal air sampling for lead that was performed, although it remains EPA's policy to minimize all ambient exposures to chemicals including those incurred by hazardous waste site workers.

All the employees used MSA ultra twin, full-face air purifying respirators with MSA type H filter cartridges for control against exposure to airborne dusts. The full-face respirator affords 100-fold protection against airborne contaminants. All employees were qualitatively fit tested using irritant smoke within the six months prior to employment at this site.

III. QUALITY CONTROL AND QUALITY ASSURANCE

For each day that area samples were performed, a field blank consisting of a glass fiber filter (8" x 10") were submitted with the samples for analysis. For each day that personal samples were performed, a 37mm mixed cellulose ester filter was also submitted with the samples for analysis. The following QA/QC was performed:

1) Field blanks were submitted for each analytical group.

2) A matrix spike analysis was performed for each analytical group. Differences in recoveries greater than 20% were not acceptable.

3) Duplicate analysis was performed for each analytical group. Any relative percent differences greater than 20% were not acceptable.

IV. BACKGROUND

There were 10 locations for which both pre- and post-excavation soil samples were taken (see Table III). A geometric mean was calculated for each of these two distributions. (The assumption was made that the two distributions were typical environmental distributions showing a left skew. As such, the geometric mean should be the best measure of central tendency). The pre-excavation soil lead geometric mean (40,404 ppm) is just greater than tenfold the post-excavation soil lead geometric mean (3,632 ppm). If the soil lead levels are indicative of both the lead load available as particulates to become airborne and representative of soil lead values as a whole, and if other factors remain the same, the airborne lead level should be reduced by greater than 90% as were the soil lead values.

After excavation, clean fill was added to excavated areas on site. The fill was placed over polyethylene sheeting over much of the site. In some locations it was impractical to put down fill because it was unlikely that a vegetative cover would grow. The alley between the AIN Plastics facility and the motel was such an area. For this area, two to four-inch rocks were placed over a polyethylene cover. For the areas in which fill had been used, either grass seed or grass sod was put down to provide a vegetative cover. Post-excavation air sampling was performed nearly four months later after the vegetative cover had developed.

LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

V. RESULTS

Table I contains the results for area baseline air sampling for lead along with area and personal air sampling performed during soil excavation. Table II contains wind directions and wind speeds for each hour and 24-hour averages for March 1987 during which time the baseline and air sampling were performed. Wind directions and wind speeds are bracketed for days on which air sampling was performed.

Table IV contains the results for area air sampling performed nearly four months after soil excavation. Table V contains wind directions and wind speeds for each hour and 24-hour averages for July 1987 during which time the post-excavation area air sampling for lead was performed. Wind directions and wind speeds are again bracketed for days on which air sampling was performed.

Table VI contains airborne arsenic levels for the four highest airborne lead level locations found during post-excavation air sampling. Arsenic is generally associated with lead in car and truck batteries. The arsenic is added to the lead to create a harder matrix in the battery cell. Only limited air sampling was performed for arsenic because soil arsenic levels were two and three orders of magnitude less than the soil lead levels. In the post-excavation air sampling, some arsenic air sampling was performed to categorize airborne arsenic levels. Arsenic is a potent, known human carcinogen via inhalation. There is no NAAQS for arsenic. Two values of 0.003 micrograms/cubic meter are substantially less than the OSHA-PEL of 10 micrograms/cubic meter. In summary, the airborne levels of arsenic were non-problematic.

The baseline air sampling shows two values well in excess of the NAAQS of 1.5 micrograms/cubic meter for lead. The wind was primarily out of the westnorth directions during this sampling period in the afternoon and evening of March 19, 1987. These wind directions would cause movement of airborne particulate matter from the site and road surface towards the athletic field locations with the high airborne lead levels. All background levels (0.03 to 0.30 micrograms/cubic meter) found at the background (Burnham) location were consistent with background lead levels determined over the past few years in Lancaster, Pennsylvania by the Pennsylvania Department of Environmental Resources Bureau of Air Quality Control for 24-hour quarterly air monitoring for lead.

For March 24 through March 27, 1987 during the excavation both on site and athletic field, airborne lead levels were elevated. The timing of these increased airborne lead levels are consistent with the soil cutting operations which would be expected to increase total suspended particulate loads.

V. RESULTS (continued)

The post-excavation lead air sampling was conducted from July 10 through July 13, 1987. The on-site airborne lead levels ranged from 0.11 to 1.32 micrograms/cubic meter and the athletic field lead levels ranged from 0.10 to 0.25 micrograms/cubic meter. All of these values were less than the 1.5 micrograms/cubic meter NAAQS for lead.

Personal air sampling for lead was conducted only during soil excavation activities on March 24, 25, 26, 1987. Airborne lead levels were in excess of the OSHA-PEL of 50 micrograms/cubic meter on all three days. As was stated in Table I, the Gilian HFS113UT pumps and appropriate cassettes were frequently placed on operational on-site equipment rather than employees. Because the equipment remained on-site while workers took breaks off-site, it is apparent that the pumps on equipment rather than individuals would more appropriately address worst case scenarios. The one exception to this was the personal sample for Mr. Chester on March 26, 1987. Mr. Chester was not working outside to clean up excavated soil, rather he was working in the warehouse on March 26, 1987. On this day he was busy sweeping up lead dust from the floor as well as removing lead dust from tables and some vertical surfaces like walls. During this work there were no fans or engineering controls in place to reduce airborne lead dust levels. While the other personal sample was simply placed in the warehouse, Mr. Chester's personal sample was always in close proximity to the areas in the warehouse where lead dust was being disturbed. This accounts for the higher lead level reading for Mr. Chester (535 micrograms/cubic meter) than for the personal "inside storage warehouse" lead level (184 micrograms/cubic meter).

VI. CONCLUSIONS

Sampling results indicate that pre-excavation airborne lead levels at the athletic field were appreciably higher than post-excavation airborne lead levels at the athletic field. Since the athletic field is both adjacent to the site and often has a target susceptible population (children) it represents an important location to assess the efficacy of the lead contaminated soil excavation. Total suspended particulate loads were similar for the on-site and athletic field locations both during pre-excavation and post-excavation. The wind direction was primarily out of the west on March 19, 1987 as it was during the post-excavation air sampling for July 10-14, 1987. The mean wind speed for March 19, 1987 was 6.30 miles per hour while it was 3.98 miles per hour for July 10-14, 1987. The slightly lower wind speed in July than during the baseline air sampling period in March may be a minor cause for the reduced lead

VI. CONCLUSIONS (continued)

levels seen in July 1987. It is likely that the major contribution to the greatly decreased airborne lead levels at a downwind off-site location as seen in the July 1987 athletic field location, were the estimated 90% reduction in surface particulates containing lead and the increased vegetative cover created by more growing grass on-site. The vegetative cover should make it more difficult for a breeze to give rise to airborne particulates.

The particularly high total suspended particulate (TSP) level in Sample 001A (1.4 milligrams/cubic meter) at the athletic field on March 19, 1987 compared with post-excavation levels of <0.5 milligrams/cubic meter is probably due to the time of day reflected by the area air sample. This 5-hour sample was taken in the afternoon when there was significant vehicular traffic relative to the averaging effect of a 24-hour sample which was the standard air sampling period for all post-excavation lead air sampling. The traffic stirs up the settleable particulate matter on the road surface causing it to become airborne. If the wind is out of the west or north, this causes the airborne particulates to move towards the athletic field. Monitoring of weekly traffic loads indicated that an average of 8-10 vehicles/hour would go down the road between the contaminated lead site and the athletic field during the hours from 0800-1700. The traffic load was estimated to be one half of this for the same hours on weekends.

The on site airborne lead levels were high, as would be expected, during the excavation period. The on site air monitoring station was positioned adjacent to the area where the soil was stockpiled for subsequent transportation and disposal.

Personal air sampling for lead showed values between 10 and 535 micrograms/cubic meter. Under optimal circumstances, the full face air purifying respirator (APR) with the appropriate high efficiency particulate filters (HEPA filters) should afford the employee 100-fold protection against the ambient lead level. The reality is that these full face APR's probably provide less protection because the employees move frequently and sweat during work activities. Both sweating and movement may result in the loss of a good seal between face and respirator which would reduce the protection factor of the respirator. With the possible exception of Mr. Chester's job on March 26, 1987 inside the warehouse, the full face APR afforded adequate protection to insure workers were not exposed to levels above the OSHA-PEL of 50 micrograms/cubic meter.

The one post-excavation airborne lead level of 1.32 micrograms/cubic meter on site would tend to support the

VI. CONCLUSIONS (continued)

possibility that ambient lead levels on site could exceed the 1.50 micrograms/cubic meter NAAQS for lead. Additional air sampling would be useful to statistically characterize the ambient lead level. With the passage of time, the amount of available lead particulates on site should decrease which should contribute to further decline in airborne lead levels on and off-site. It is also possible that a more extensive vegetative cover could result in a further reduction in airborne lead levels on and off-site.

~~SFD-A01~~ 12-67

COMMONWEALTH OF PENNSYLVANIA

August 13, 1986

SUBJECT: Lancaster Battery Company
Manheim Township

TO: File 36-00189

Thru: Air Quality District Supervisor
WPG

FROM: Terrence L. Rainar TLR
Air Quality Specialist

On April 25, 1986 the writer conducted an inspection of the subject facility with Mr. Greg Harder, Bureau of Solid Waste Management, to determine the extent of solid waste contamination from the former battery manufacturing operation at this location. During this inspection the writer outlined to Mr. Harder the sites of contamination from air pollution sources. He indicated that this information would be submitted to EPA for a preliminary superfund assessment. The company went out of business and moved the plant equipment sometime in January, 1986. The 1985 Emission Data System information was never received and efforts to reach company officials have been unsuccessful.

On July 17, 1986 the writer conducted another survey of the site with official of the new property owners, A I N Plastics. Mr. Ralph Martin, Plant Manager, and Mr. Norman Drucker, Corporate Administrator, were present for this inspection and indicated that they were unaware of any environmental contamination when they purchased the property and buildings. They feel that clean-up responsibility rests with the former operator and owner.

On July 25, 1986 the writer spoke with Mr. Mike Nalipinski at EPA, (215) 597-8333, concerning the subject contamination. He indicated that sampling and survey personnel would be making an on-site inspection and would contact the writer at that time.

During the above mentioned inspections the writer outlined the following known sites of ground contamination:

1) Between motel and plant on east side below the three battery table exhausts and homemade control devices.

2) Drum storage areas on south side of plant.

3) Lead cupola building and surrounding area.

4) Area between cupola and main building at one time used to break-up old batteries.

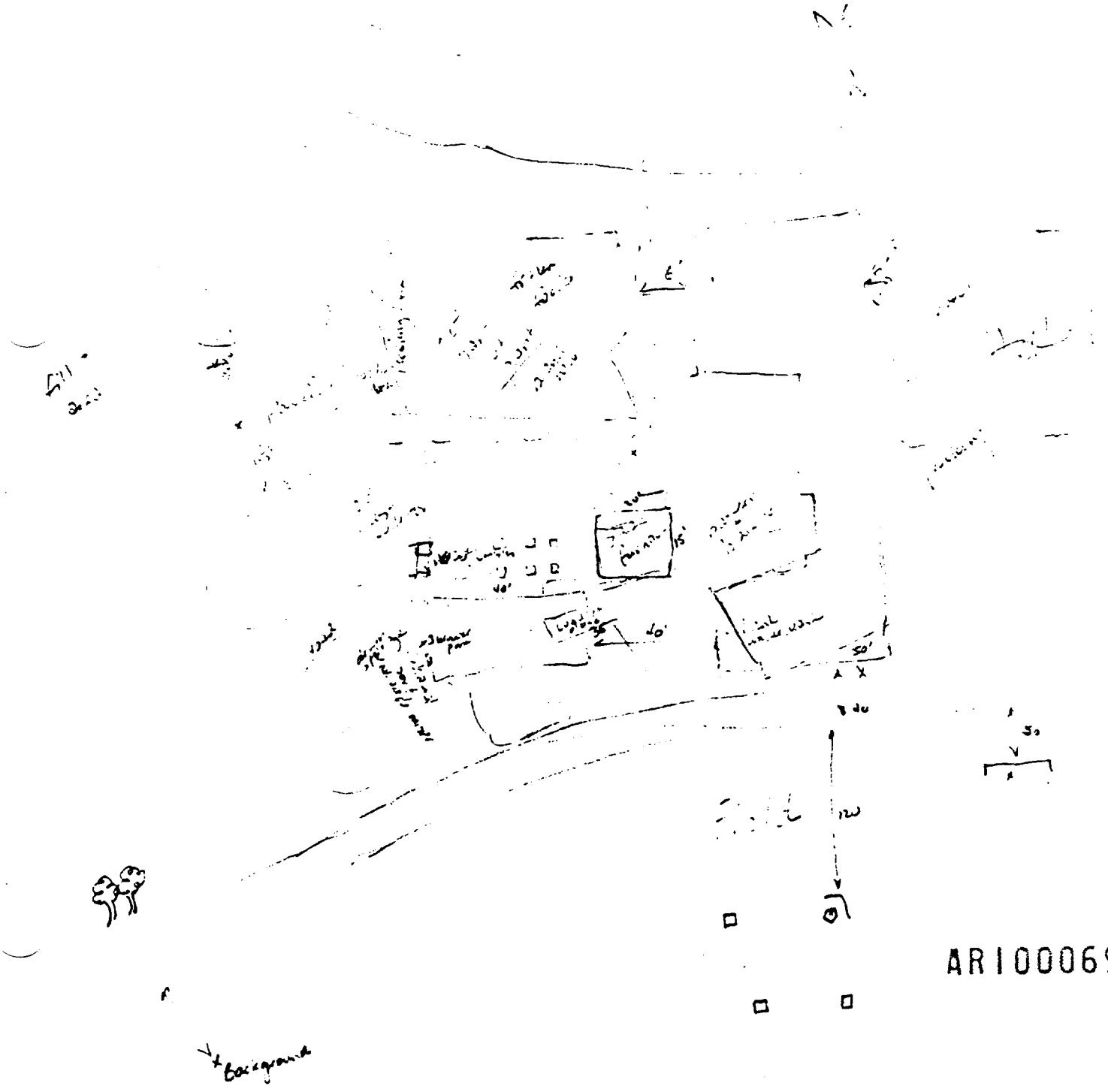
5) Area around former homemade dust collector and deteriorated ductwork

AR1000L

6) Areas around new collector waste dust hopper discharge and U-Tube collector hopper discharge.

7) Area under the lead oxide mixer exhaust and homemade control device.

TLR:jgb
cc: Harrisburg Region
Bureau Solid Waste Management, Greg Harder



AR100069

Motel-Dust Sample

AP #16122

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF AIR QUALITY CONTROL

Region III - Lancaster

SAMPLE AND LABORATORY REPORT

ame of Company	Address
ncaster Battery Company	Manheim Township

ate Set Out	Date Collected	Material Sampled	Analysis Desired
	5/4/84	Dust	

ollected By	Sampling Apparatus/Medium	
Rainar	grab samples	71023 - Microscopic 71024 - Microscopic, % Pb

omments

heck for lead.

ample umber al	Sampling Location	Air Volume/ Sampling Period	Laboratory Results
1023	Parkside Motel--Window Sill (brush and vial)		
1024	Parkside Motel--Walkway (vacuum with clean filter bag)		% Pb = 32.45 (quantitative analysis)

REPORT OF ANALYSIS

AB100070

Micro--Microscopic exam of the sill material reveals a collection of road dust and vegetable matter with a possible industrial component. The material gives a positive test for lead. The walkway material is similar in composition to the sill material. It, too, is positive for lead.

Date Received in Lab 5/10/84 Analysis By JC Date 6/27/84

BB

tmotel-Dist-Sampl

AP #4173

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF AIR QUALITY CONTROL

Region III-Lancaster

SAMPLE AND LABORATORY REPORT

Name of Company	Address
Lancaster Battery Co.,	Manheim Twp.

Date Set Out	Date Collected	Material Sampled	Analysis Desired
	10/31/83	Dust	

Collected By	Sampling Apparatus/Medium	Microscopic; Pb on sample
T. Rainar	grab sample	#18179 only.

Comments

Microscopic comparison of #18177 and #18178.

Sample Number Seal	Sampling Location	Air Volume/ Sampling Period	Laboratory Results
.77	Parkside Motel - Window Sill		-
18178	Donnelly Printing - Roof		-
18179	Parkside Motel - Walkway, sample collected with vacuum cleaner and clean filter bag.		% Lead = 24.4

REPORT OF ANALYSIS

e Reverse Side (over).

AR100071

Date Received In Lab 11/4/83 Analysis By LW, JC Date 12/

Micro -

18177 - Main Components are the following:

1) mechanically - pulped coniferous paper fibers.
2) the orange-yellow and grey-white particles that are the chief component of #18179.
3) man-made textile fibers including fiberglass, polyester, and orlon.
4) fossil fuel combustion products.

The material gives a positive microchemical test for lead.

18178 - Material is chiefly paper fibers of mechanically-pulped coniferous wood.

18179 - Material is heavy relative to commonly encountered urban dust and has four major components:

1) a gun-metal-grey particulate.
2) an orange-yellow to white particulate.
3) a white agglomerated particulate.
4) a dark amber resin-like particulate.

Also present are mechanically - pulped coniferous paper fibers but this material is a minor component
The material gives a positive microchemical test for lead.

Bureau of Air Quality Control
439 East King Street
Lancaster, Pennsylvania 17602-3096
(717) 299-7601
January 10, 1984

Mr. Stuart C. Manix
President
Lancaster Battery Company
1330 Harrisburg Avenue
P. O. Box 4274
Lancaster, PA 17604

Dear Mr. Manix:

This letter will confirm my visit to the area around your facility on October 24, 1983. During this visit I confirmed citizen complaints concerning dustfall or settleable particulate accumulating on area surfaces. At the time, there were no violations of the Department's Rules and Regulations governing visible and fugitive emissions from the sources at your facility. The fabric filter bags used as dust filters on the assembly and grup burning exhausts, however, were deteriorated and there were several holes in the fabric material of two filters. Following my investigati I contacted your Mr. Daiger and he informed me that the filter bags would definitely be replaced that day.

During this investigation I collected a bulk dust sample from the walkway adjacent to this area to submit to our laboratory for analysis. Enclosed for your information is a copy of the lab report. As you can see, the dust collected on October 24, 1983 contained 24.4% lead.

It is our opinion that the source of these emissions is the assembly and grup burning exhausts which are currently controlled by the filter bag/drum arrangement. This system is subject to effects by adverse weather and frequent replacements, some of which were made at the request of the Department after citizen complaints brought a problem to our attention. It i our recommendation that you prepare a proposal to install a more conventional fabric filter collector for control of emissions from these sources. The emissions may be passing through the filter bag or entering the atmosphere during periods of operation with deteriorated filter bags in place.

Whatever control device is utilized, it must be adequate to prevent dustfall and settleable particulate from affecting nearby properties and citizens. Th Department's concern arises from evidence indicating that these type of emissions may contribute to adverse health effects among exposed individuals.

We feel that in view of the hazardous nature of the emissions a more effective pollution control device is required for these sources. Please contact me to arrange for a mutually acceptable schedule to discuss this matter in more detail.

If you should have any questions concerning this matter, please do not hesitate to contact me.

Sincerely,

Terrence L. Rainar
Air Quality Specialist

TLR:jgb
Enclosure (1)

bcc: Harrisburg Region
Lancaster District (File 36-0189)

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

Bureau of Air Quality Control
10 South Prince Street
Lancaster, Pennsylvania 17603
(717) 299-7601

August 6, 1982

Mr. Stuart Manix, President
Lancaster Battery Company, Inc.
1330 Harrisburg Avenue
P. O. Box 4274
Lancaster, PA 17604

Dear Mr. Manix:

Pursuant to our August 4, 1982 discussion this letter of agreement is submitted in order to settle the violations of 25 PA. Code §123.41 and 127.25 arising from the emission of visible air contaminants from the stack of the Wheelabrator-Frye, Inc., Model #1224-171, fabric filter collector covered by Operating Permit 36-319-025 and used to control emissions from the lead cupola furnace at the Lancaster Battery Company, Inc. facility, Manheim Township, Lancaster County, Pennsylvania. The aforesaid violations were observed by Mr. Eugene P. Ramsey on July 27, 1982.

The terms of this agreement are as follows:

1) For the aforesaid violations of 25 PA. Code §123.41 and §127.25 Lancaster Battery Company, Inc., shall pay to the Pennsylvania Clean Air Fund the sum of two hundred fifty ($250.00) dollars which sum is due and payable immediately upon execution of this agreement. Said payment accompanied by a completed Transmittal of Penalty Payment form (enclosed) shall be forwarded to Mr. Morris S. Malin, Chief, Division of Abatement & Compliance, Bureau of Air Quality Control, P. O. Box 2063, Harrisburg, PA 17120.

2) In consideration of said payment and the execution of this agreement the Department of Environmental Resources agrees that it will not initiate any action at law or in equity against Lancaster Battery Company, Inc., its employees, agents, successors, or assigns for the aforesaid violations.

3) Nothing herein contained shall be construed to relieve or limit the obligation of Lancaster Battery Company, Inc., to comply with the terms and conditions of any plan approval or operating permit now existing or hereafter issued to Lancaster Battery Company, Inc. by the Department.

AR100075

If this letter of agreement is acceptable to you, please return a signed copy to me at the letterhead address within fifteen (15) days.

Very truly yours,

Terry L. Black
Air Quality District Supervisor
Lancaster District

The terms of this agreement are hereby consented and agreed to:

FOR LANCASTER BATTERY COMPANY, INC.

Date: 8/6/82

FOR THE DEPARTMENT OF ENVIRONMENTAL RESOURCES

Peter Shelley
Assistant Counsel

COMMONWEALTH OF PENNSYLVANIA
Dept. of Environmental Resources
10 South Prince Street
Lancaster, Pennsylvania 17603
April 7, 1976

SUBJECT: Lancaster Battery
Lancaster

TO: File 36-000-00189 Through: Air Basin Engineer

FROM: Eugene P. Ramsey
Environmental Protection Specialist

This case first came to the attention of the Department from a complaint from a Mr. Mike Colenda on October 14, 1975. Investigation of the complaint first took place on October 28, 1975 at which time the writer contacted Mr. Manix, President, of the subject company. Inspection of the premises and discussions with Mr. Manix could not uncover any reason for the odor complaint. The writer then contacted Mr. Colenda and told him that if it occurred again to please contact the writer and to maintain a record of each time the odor occurred. On November 5, 1975 a Mr. Mike Bradley also of Welch's Body Shop reported an odor which as nearly as he could determine was being caused by burning battery cases behind the Lancaster Battery Company building. The writer investigated the area at approximately 5:00 P.M. on that same date and could find no evidence of any burning of any kind at this facility. On November 6, 1975 the writer again contacted Mr. Manix to see if he could shed any light on the complaints that this office had received. Mr. Manix stated that he had no idea as to how any odor of the type described could possibly emanate from his facility. On the same date the writer contacted Mr. Bradley and asked that a record be kept of the times and dates the odors occur.

This company was inspected on a weekly basis during December and at 5:00 P.M. on December 18, the writer received a phone call at home telling him of the problem which was occurring at that time. A visit was immediately made to the area and a thorough inspection in the area of Lancaster Battery did not show any reason for the type of odor that was noted. It appears that this odor is acid fumes which leaves a very bad metallic taste in the mouth and irritates nasal passages. Further investigation was dropped in early January until mid-February 1976. At that time weekly inspections were made of the area in the vicinity of Lancaster Battery and at no time was any further odor noted. The complainants also indicated that no odor had been noted since December. The complainants were instructed to again notify this office should any odor be detected and to maintain a log of such odors with the time and date of their occurrence. There was no conclusive proof as to whether the odor was actually coming from Lancaster Battery or where the odor might actually becoming from.

In view of the above, it is recommended that this case be considered no problem pending any future occurrences.

AR100077

EPR:jgb
cc: Abatement & Compliance
Harrisburg Region

OA-801 12-67

COMMONWEALTH OF PENNSYLVANIA
Dept. of Environmental Resourc
10 South Prince Street
Lancaster, PA 17603
October 21, 1976

SUBJECT: Lancaster Battery Company
Lancaster

TO: File 36-000-00189

Thru: Air Basin Engineer

FROM: Eugene P. Ramsey EPR
Environmental Protection Specialist

On October 11, 1976, at approximately 7:00 p.m. the writer received a phone call at his residence concerning a complaint about Lancaster Battery Company from Mr. Ken Welch. This case has been investigated on previous occasions without finding the odor that was being complained about. On the night in question, however, an odor was noted and a visit was made to Lancaster Battery Company. Two persons were running the cupola at that time and it was determined that parts of old battery tops were being fed into the cupola along with battery plates. There was a strong odor of burning rubber in the air at the time of the inspection. In the opinion of the writer, this was from the battery tops which are made of hard rubber. Along with the odor, a metallic taste was left in one's mouth after sniffing the odor. This is most probably sulfuric acid fumes.

A discussion with Mr. Manix, Owner of Lancaster Battery Company, on October 12, 1976, disclosed that he was not aware that battery tops were being fed into the cupola and that this practice would cease immediately. He also stated that he had discussed the operation of the cupola with the previous owner and had learned that the battery plates used to sit outside for one to two months before being loaded into the cupola. It is presumed that this practice cleaned the plates of most of the acid prior to entering the cupola. Mr. Manix stated that he could not continue this practice but that he would attempt to dip the plates in a caustic soda solution prior to charging them into the cupola.

It is expected that this process change will be completed within two weeks and a reinspection will be made at that time.

EPR:cdh

cc: Abatement & Compliance
Harrisburg Region

Bureau of Air Quality Control
439 East King Street
Lancaster, Pennsylvania 17602-3096
(717) 299-7601
January 19, 1984

Mrs. John O'Brian
Parkside Motel
1310 Harrisburg Avenue
Lancaster, PA 17604

Dear Mrs. O'Brian:

This letter will confirm our investigation of the dustfall of settleable particulate problem around your property during October and November 1983. As I discussed with you earlier the yellow to white particulate has been traced to the Donnelley Printing Plant located nearby. We are continuing our efforts to determine the exact source and cause of these emissions and expect that Donnelley will take corrective measures as needed. I will keep you informed of these efforts.

The grey particulate which was collected by Mr. Abbott with the vacuum cleaner contains 24% lead. Enclosed for your reference is a copy of the lab report. We believe these dustfall emissions originate at the adjacent battery plant. We suspect that the emissions are from the several wall exhausts facing your property. The existing homemade control device does not appear adequate to prevent these type of emissions and we have urged the company to take appropriate corrective action. Enclosed is a copy of the latest letter to Mr. Manix. I will contact you when we hear from the company on this matter.

If you should have any questions or notice any unusual events, please feel free to contact me.

Sincerely,

Terrence L. Rainar
Air Quality Specialist

TLR:jgb
Enclosure

bcc: Harrisburg Region
Lancaster District (File 36-0189)

AIR QUALI ISC/SOURCE REPORT

****

COMPANY - LANCASTER BATTERY C
DATE LOGGED - 11/04/83 DATE COLLECTED - 10/31/83

****

REPORT REVIEWED BY - DATE - 12/15/83

****

COLLECTOR NO 3333049 SITE NAME LAB NO 41733
RECEIVE INFO
SAMPLE DESC MICROSCOPIC COLLECTOR-NAME - T. BLACK ADJ LANC.
START STOP TOT HRS
DATE 10/31/83 00/00/00 TOT DAYS 00 INTACT Y
FLOWS 00 00
AIR VOL LOT 000000 FILTER #
SEAL NO(S) 18177 18178

STORET	DESCRIPTION	RESULT	CONC	VERIFY BY	VERIFY DATE	COMM CODE
99007	MICRO/ID	0.0000	G	JAC	12/01/83	21

99007 E SEE QUALITATIVE REPORT

99007 DONNELLY PRINTING ROOF----MATERIAL IS CHIEFLY PAPER FIBERS OF MECHANICALLY-PULPED CONIFEROUS WOOD. JAC

PARKSIDE MOTEL WINDOW SILL----MAIN COMPONENTS ARE: MECHANICALLY-PULPED CONIFEROUS PAPER FIBERS; THE ORANGE-YELLOW AND GREY-WHITE PARTICLES THAT ARE THE CHIEF COMPONENT OF LABN 41734; MAN-MADE TEXTILE FIBERS INCLUDING FIBER GLASS, POLYESTER, AND ORLON; AND FOSSIL FUEL COMBUSTION PRODUCTS. THE MATERIAL GIVES A POSITIVE MICROCHEMICAL TEST FOR LEAD.

TOTAL NUMBER TEST FOR THIS SAMPLE 1

****

COLLECTOR NO 3333050 SITE NAME LAB NO 41734
RECEIVE INFO
SAMPLE DESC DIRT COLLECTOR-NAME - T. BLACK ADJ LANC.
START STOP TOT HRS
DATE 10/31/83 00/00/00 TOT DAYS 00 INTACT Y
FLOWS 00 00
AIR VOL LOT 000000 FILTER #
SEAL NO(S) 18179

STORET	DESCRIPTION	RESULT	CONC	VERIFY BY	VERIFY DATE	COMM CODE
01051	FB %	24.4000	G	LCW	12/14/83	00
99007	MICRO/ID	0.0000	G	JAC	12/01/83	21

99007 E SEE QUALITATIVE REPORT

99007 MATERIAL IS HEAVY RELATIVE TO COMMONLY ENCOUNTERED URBAN DUST AND HAS FOUR MAJOR COMPONENTS: 1)A GUN-METAL-GREY JAC

AR100082

AIR QUALIT REPORT CONTINUED ON :

PARKSIDE MOTEL WALKWAY
FOR COLLECTOR #- 3333050 AND LAB NO - 41734

STORET	DESCRIPTION	RESULT	CONC	VERIFY BY	VERIFY DATE	COMM CODE

ANALYST COMMENTS

STORET CODE	COMMENTS	ANALYST
	PARTICULATE 2) A ORANGE-YELLOW TO WHITE PARTICULATE 3) A WHITE AGGLOMERATED PARTICULATE 4) A DARK AMBER RESIN-LIKE PARTICULATE. ALSO PRESENT ARE MECHANICALLY-PULPED CONIF. PAPER FIBERS BUT THIS MATERIAL IS A MINOR COMPONENT. THE MATERIAL GIVES A POSITIVE MICROCHEMICAL TEST FOR LEAD.	

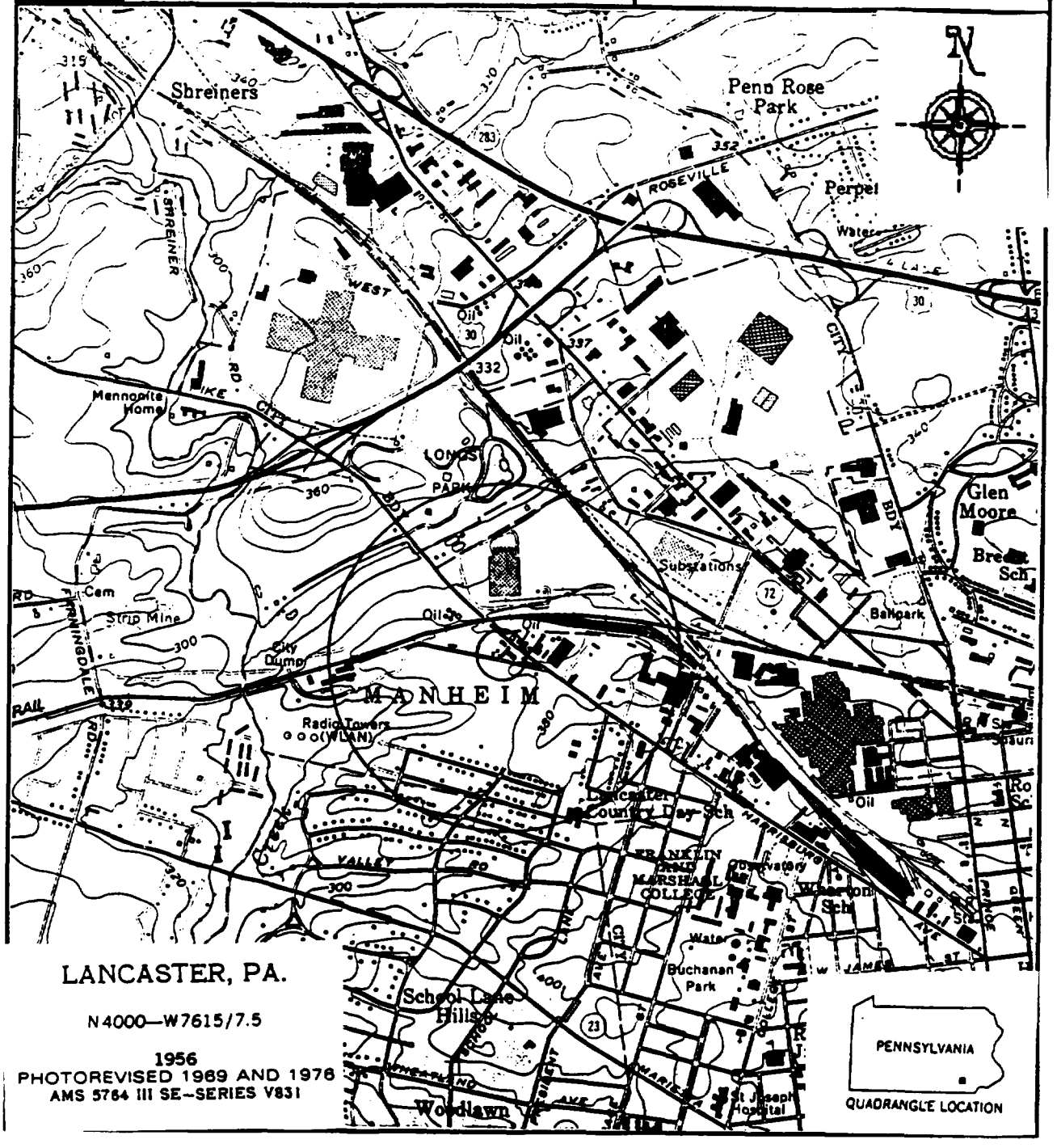
TOTAL NUMBER TEST FOR THIS SAMPLE 2

PA. DEPARTMENT OF
ENVIRONMENTAL RESOURCES
DEC 16 1983
HARRISBURG REGION
AIR QUALITY

AR100081

WESTON • SPER

TDD Number: 8703-25
PCS Number: 1137



LANCASTER, PA.

N4000—W7615/7.5

1956
PHOTOREVISED 1969 AND 1976
AMS 5764 III SE—SERIES V831

LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA

SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

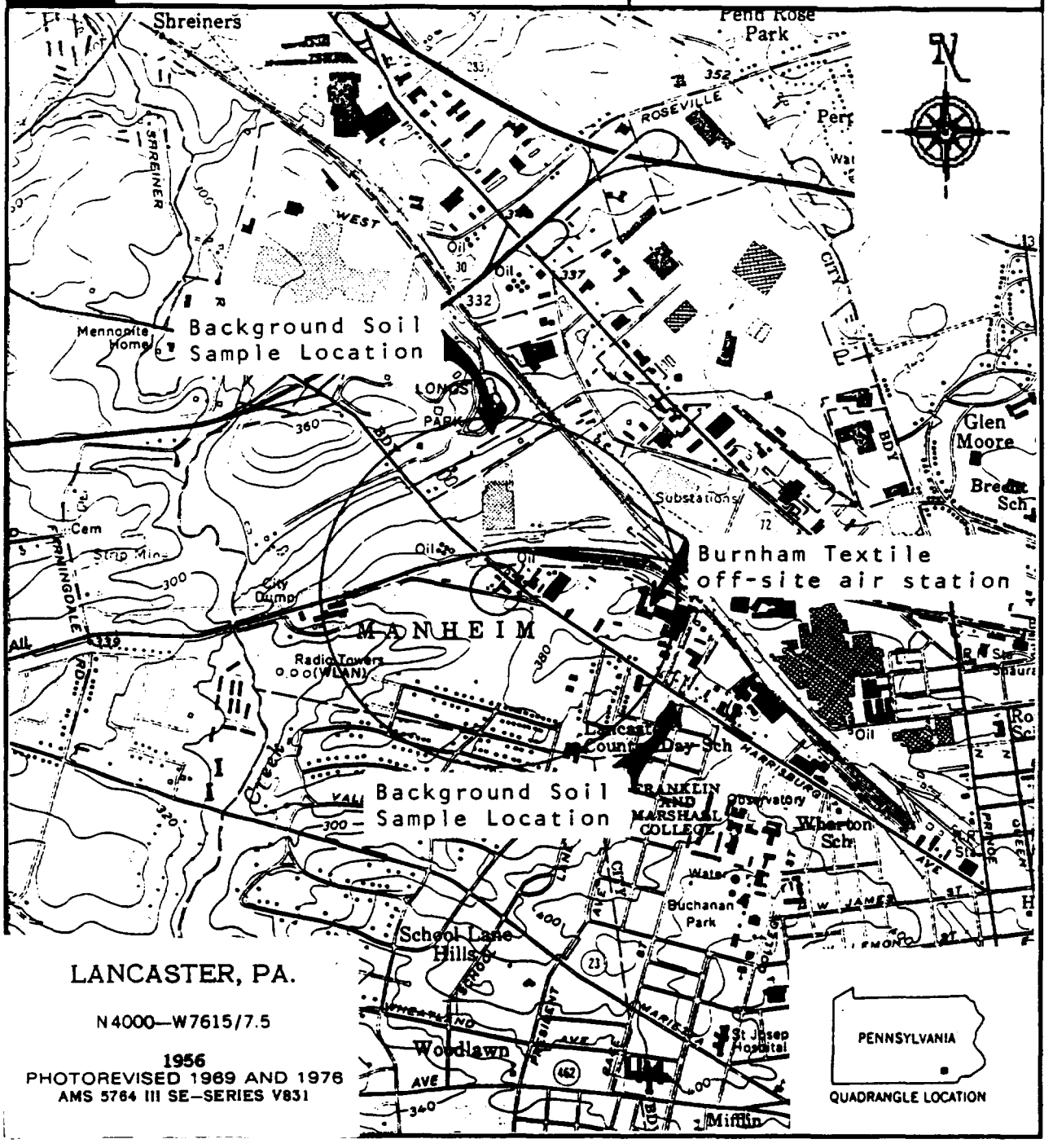
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

AR100082

WESTON • SPER

TDD Number: 8703-25
PCS Number: 1137



LANCASTER, PA.

N4000—W7615/7.5

1956
PHOTOREVISED 1969 AND 1976
AMS 5764 III SE—SERIES V831

LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA

SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

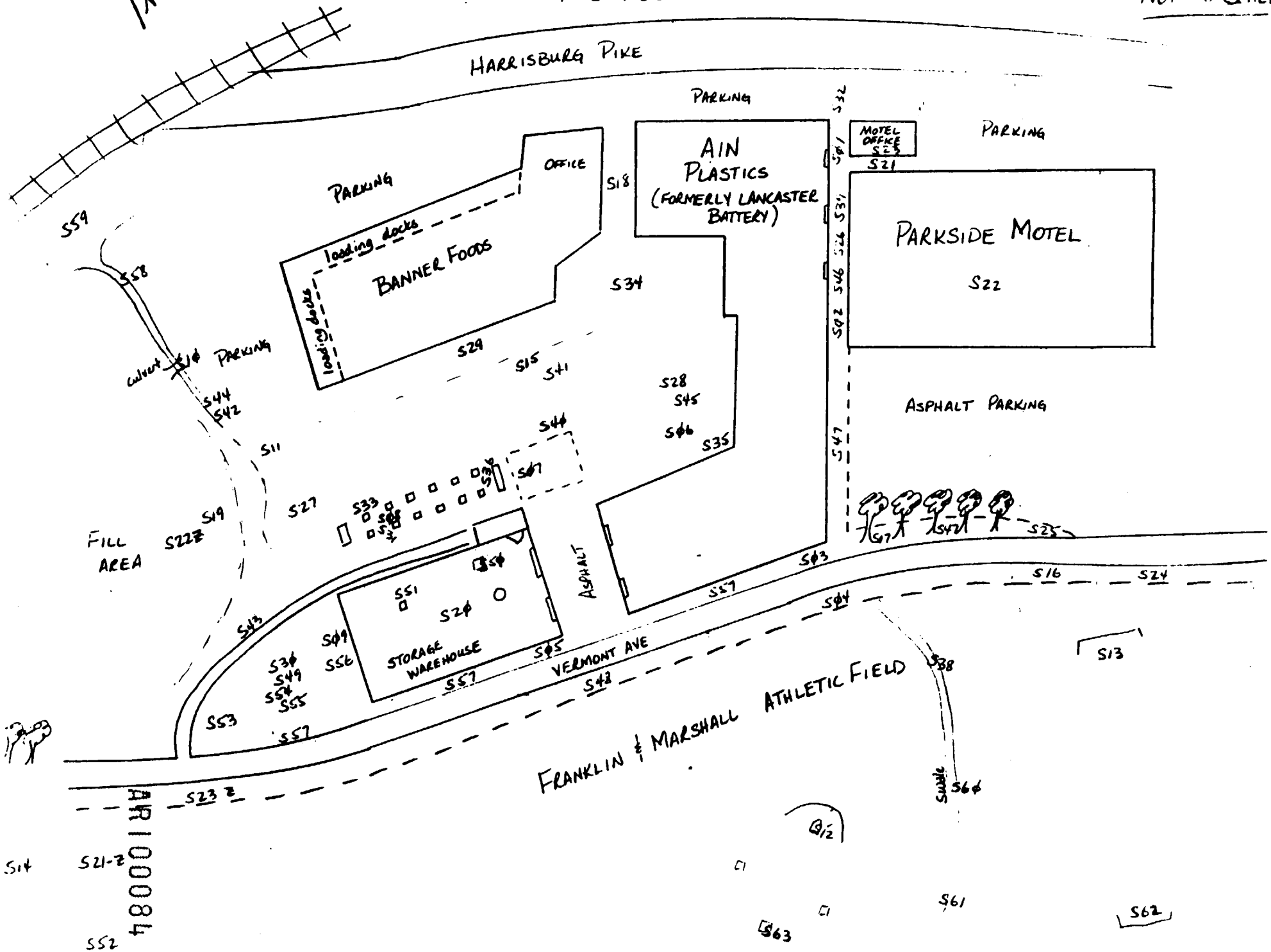
AR10008

LANCASTER BATTERY SITE
SAMPLE LOCATIONS

LANCASTER COUNTY, PA

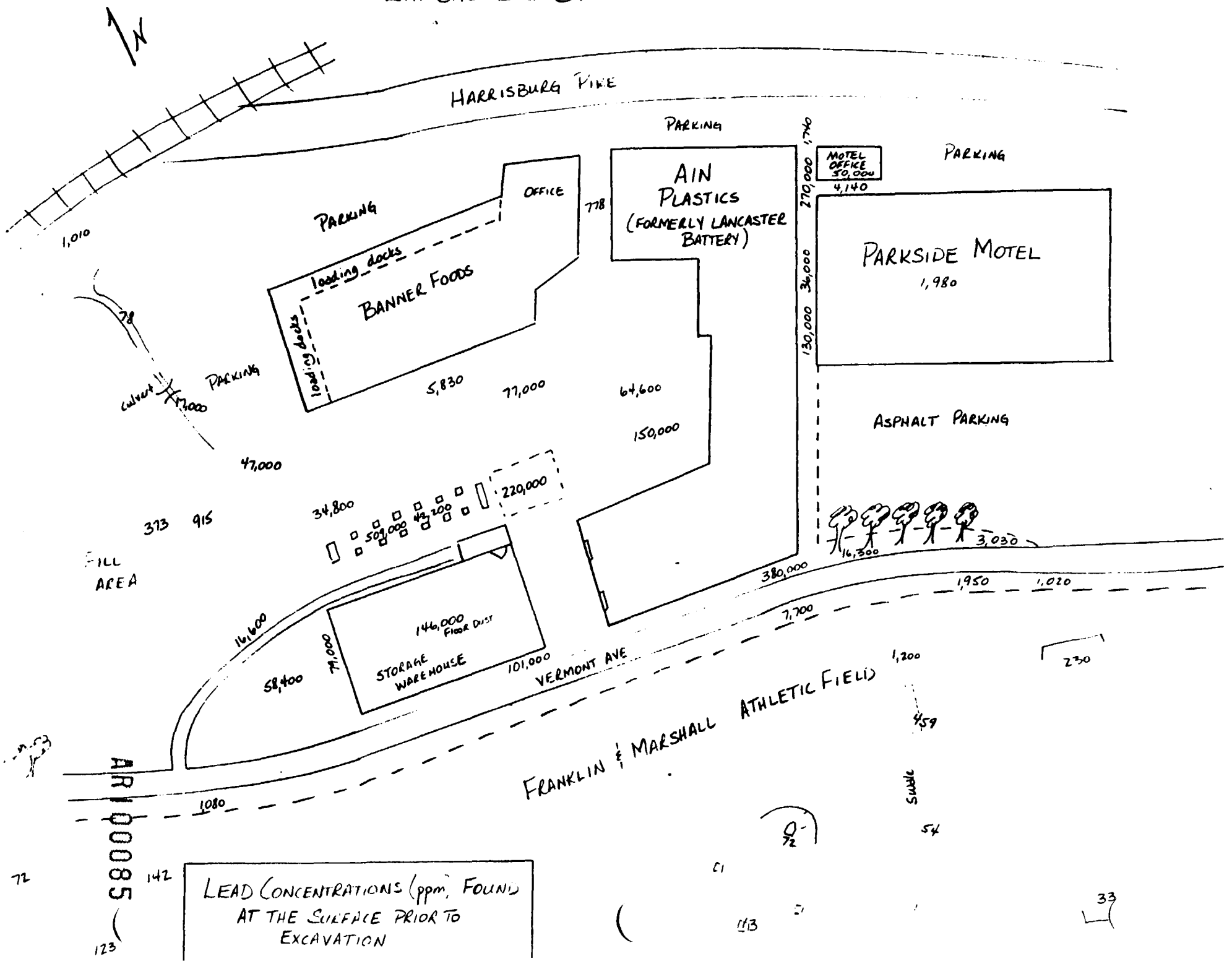
J. BROWN

NOT TO SCALE



LANCASTER BATTERY SITE

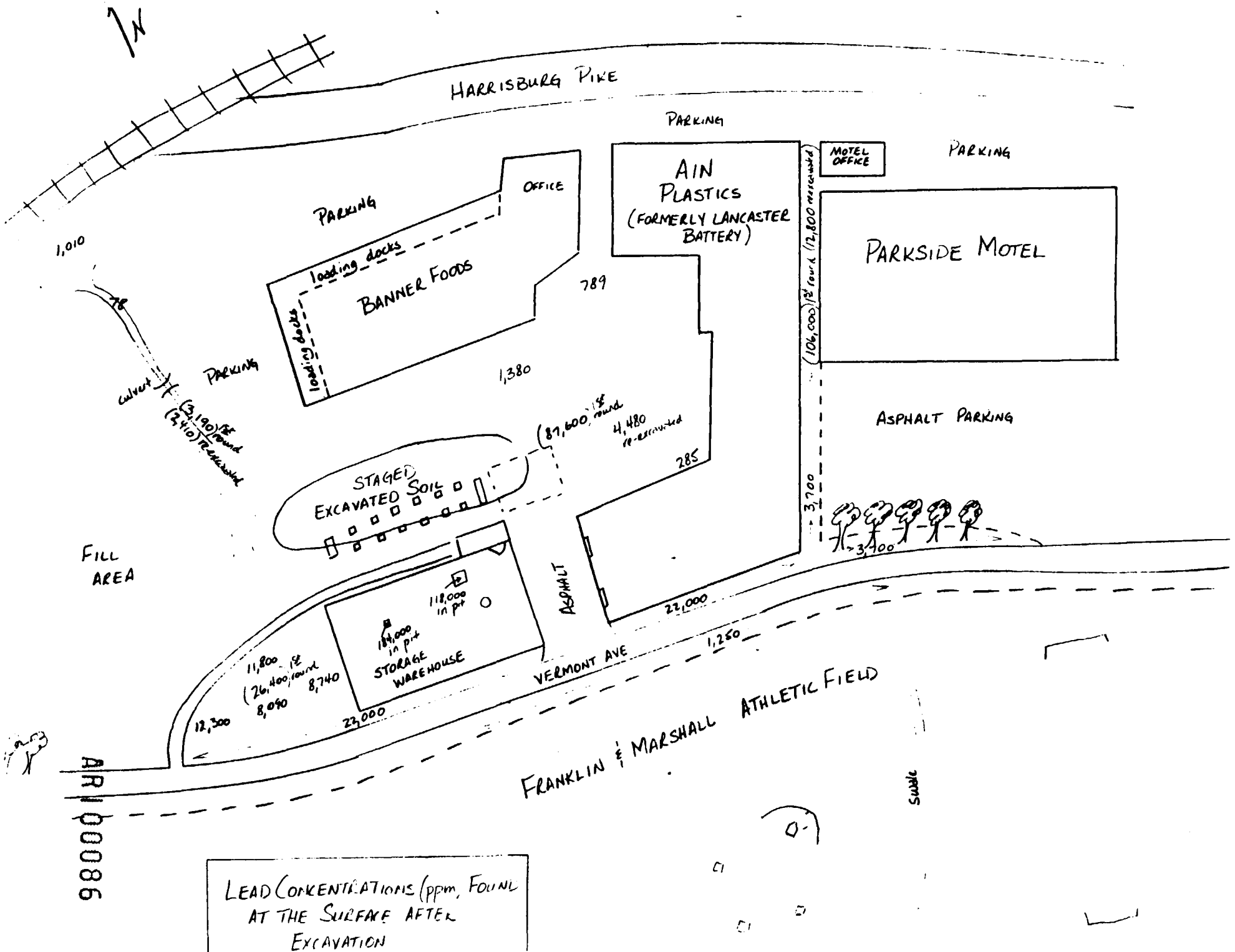
MANHEIM TOWNSHIP
LANCASTER COUNTY, PA



LEAD CONCENTRATIONS (ppm) FOUND AT THE SURFACE PRIOR TO EXCAVATION

LANCASTER BATTERY SITE

MANHEIM TOWNSHIP
LANCASTER COUNTY, PA



LEAD CONCENTRATIONS (ppm, FOUND AT THE SURFACE AFTER EXCAVATION

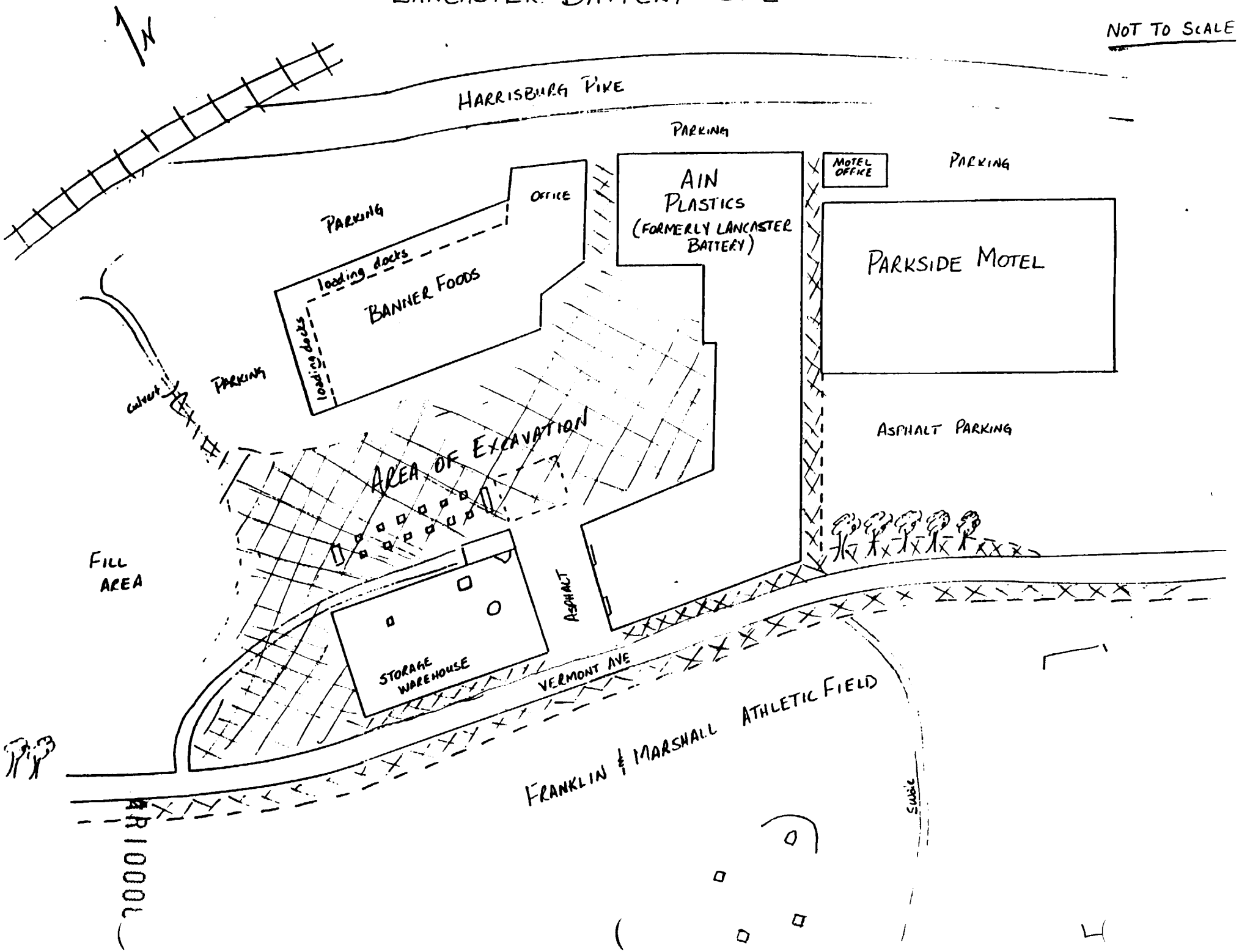
ARI 00086

LANCASTER BATTERY SITE

LANCASTER COUNTY, ...

J. BROWN

NOT TO SCALE



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
841 Chestnut Building
Philadelphia, Pennsylvania 19107

SUBJECT: Request for Funding for CERCLA Removal Action at the Lancaster Battery Site, Manheim Township, Lancaster County, Pennsylvania

DATE: MAR 0 9 1987

FROM: James M. Seif
Regional Administrator (3RA00)

TO: Dr. J. Winston Porter, Assistant Administrator, Solid Waste and Emergency Response (WH-562-A)

Issue

The attached CERCLA funding request pertains to the Lancaster Battery Site, Manheim Township, Lancaster County, Pennsylvania.

Removal operations are necessary to eliminate the potential threat to public health and the environment due to the direct contact threat posed by lead and other heavy metals (chromium, cadmium, and arsenic).

Pursuant to Delegation of Authority 14-1-A (4/16/84), which authorizes the Regional Administrator to approve CERCLA removal actions with a total cost of less than $1,000,000 and approve exemptions to the six-month removal limit, I have approved $588,800 of which $451,000 is for cleanup contractor costs for removal operations at the Lancaster Battery Site.

Attachment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
841 Chestnut Building
Philadelphia, Pennsylvania 19107

SUBJECT: Removal Request for the Lancaster Battery Site
Manheim Township, Lancaster County, Pennsylvania

DATE: MAR 0 3 1987

FROM: Jack Downie, On-Scene Coordinator
Emergency Response Section (3HW22)

TO: James M. Seif
Regional Administrator (3RA00)

THRU: Stephen R. Wassersug, Director
Hazardous Waste Management Division (3HW00)

I. Purpose

This is a request for funding to initiate a removal action at the Lancaster Battery site, Manheim Township, Lancaster County, PA. This site is contaminated with high levels of lead (Pb), arsenic (As), cadmium (Cd) and chromium (Cr), and is directly accessible to the public. The requested funds in the amount of $588,800 will be used to control runoff and to mitigate the threat to human health and the environment that this site poses.

II. Background

The Lancaster Battery site is located on the Harrisburg Pike in Manheim Township, Pennsylvania. The site is in a predominantly commercial area with a large, frequently used athletic field located 40 feet to the south, a motel abutting the site to the east and a poultry distribution center adjacent just northeast of the site (see site sketch).

The Lancaster Battery site is the location of a former recycler of lead batteries for automobiles and trucks. The process consisted of cutting used batteries on the site, removing the acid and recovering the lead. The lead scrap was then melted in the furnace with the dust from this process collected in a homemade dust collector that was upgraded in 1972. The acid was stored in an unlined lagoon in the 1960s and early 1970s then was neutralized and released to the sewer. Pennsylvania Department of Environmental Resources (PADER) cited Lancaster Battery in 1971 for operating the lagoon without a permit. Closure of the lagoon is not documented. The acid wastes were subsequently collected in a holding tank located under the present loading dock, neutralized with soda and diverted to the sewer.

The site was sold to AIN Plastics, Inc. in the beginning of 1986. AIN has cleaned and renovated the main building, leaving the storage warehouse and grounds virtually untouched. AIN, Inc., indicated to PADER that they were unaware of any environmental contamination when they purchased the property and buildings.

The site covers approximately one (1) acre. Contamination appears to have spread over the entire site, as illustrated by the attached sampling data. Current drainage patterns carry surface water from the site into a drainage ditch eventually reaching a tributary of the Little Conestoga Creek that subsequently drains into the Susquehanna River which is located approximately 5 miles from the site. Analytical data from soil collected in a culvert pipe located in the drain ditch revealed elevated lead levels.

A request for assistance from the State of Pennsylvania has been received by the Emergency Response Section of EPA, Region III. This site is not presently on the National Priorities List (NPL), but will be proposed on update 7.

III. Threat

The Lancaster Battery site meets the criteria for removal action under NCP Section 300.65 in that there is a potential threat to public health or welfare and/or the environment based upon factors (i) and (iv) of subpart (b)(2) as follows:

(i) Actual or potential exposure to hazardous substances by nearby populations, animals, or food chain;

(iv) High levels of hazardous substances in soils largely at or near the surface that may migrate.

Preliminary assessment analytical data indicate on-site lead levels to be as high as 509,000 ppm in surface soils. In accordance with the Clean Water Act, Section 307(a), lead is a listed substance and is therefore, by definition, a CERCLA hazardous substance. Thirteen (13) of fifteen (15) random surface soil samples were found to contain lead levels greater than 5,000 ppm. Levels of arsenic (36-750 ppm), cadmium (3.3-64 ppm) and chromium (4-57 ppm) were also observed in the surface soils. These levels are far above the maximum concentration of contaminant of EP toxicity as defined by RCRA.

The Parkside Motel is located adjacent to the site on the east side (see site sketch). PADER Bureau of Air Quality analyzed dust samples collected in vacuum cleaner bags from the motel breezeway in 1983 and 1984. The analysis revealed lead levels of 24 percent and 32 percent respectively. A large recreation/athletic field is located approximately 40 feet south of the site, across an access road. The field encompasses approximately 20 acres and is used by the Lancaster Day School, Franklin and Marshall College and numerous baseball, soccer and archery summer

camps. Banner Foods Company is a distributor of fresh and frozen poultry and is situated just northwest of the site. An open air loading dock is located approximately thirty feet north of the area where the homemade dust collector was located and where analytical data from the soil samples revealed 509,000 ppm lead.

The potential threat to public health from hazardous substances is significant due to the fact that lead and lead salts are highly toxic via ingestion and inhalation routes. The primary threat to human health arises from inhalation of lead bearing dust and ingestion of the same product. It is well demonstrated that lead causes peripheral neuropathy (form of nerve damage) in humans, who have received sufficient exposure to lead. Lead has the potential for accumulating in the bones and is known to have a long residency time in the human body tissue. Lead is a suspected mutagen with chromosome damage reported in occupationally exposed persons. Advanced lead poisoning causes constipation, loss of appetite, anemia and gradual paralysis of the muscles. Mild lead poisoning causes lethargy, moroseness, abdominal pain and flatulence. Lead poisoning may result in permanent central nervous system damage. (See attached ATSDR memorandum).

The Lancaster Battery site poses a threat to the environment by contamination of groundwater and surface water. Analytical data from the drainage ditch leading from the site show elevated levels of lead in the silt carried by stormwater. Precipitation is the source of all groundwater in the Lancaster quadrangle according to the Pennsylvania Geological Survey, Fourth Series. The precipitation infiltrates downward through the soil and rock openings to the zone of saturation. Groundwater discharges primarily through seeps and springs into the streams. Baseflow of perennial streams such as the Little Conestoga Creek is maintained by groundwater discharge.

Local geological conditions could also promote horizontal transportation of contaminants before they enter the true groundwater table. This transportation could impact the river.

IV. Proposed Project and Costs

Operations are proposed to mitigate the threat to human health and the environment and will represent a permanent solution to the long-term environmental threat, eliminating the need for Remedial Action.

Monies will be utilized for the excavation and transportation/disposal of lead contaminated soil to an approved EPA disposal facility. Project costs are based on 20 workdays to complete the project. Excavation and staging should take approximately 15 of the 20 workdays. Erosion control measures will be put in place following excavation. TAT costs include 3 TATMs/day, one of whom would be performing air sampling for lead and other heavy metals on a daily basis. The cost of air sampling and analysis are included in the TAT cost figure.

IV. Proposed Project and Costs

ERCS

A. Measuring and sampling	$ 5,000
B. Debris Removal	20,000
C. Excavation, staging (based on 1200 cu. yd.)	75,000
D. Erosion control, channel improvement	15,000
E. Transportation/disposal	275,000
F. Restoration	20,000
ERCS Subtotal	$410,000
10% Contingency	41,000
ERCS Total	$451,000
TAT	$ 51,000
EPA	10,000
EPA, TAT Subtotal	$ 61,000
Subtotal (EPA, TAT, ERCS)	$512,000
15% EPA Administrative Costs	76,800
TOTAL ESTIMATED PROJECT COSTS	$588,800

V. Enforcement

(See attached Confidential Enforcement Status)

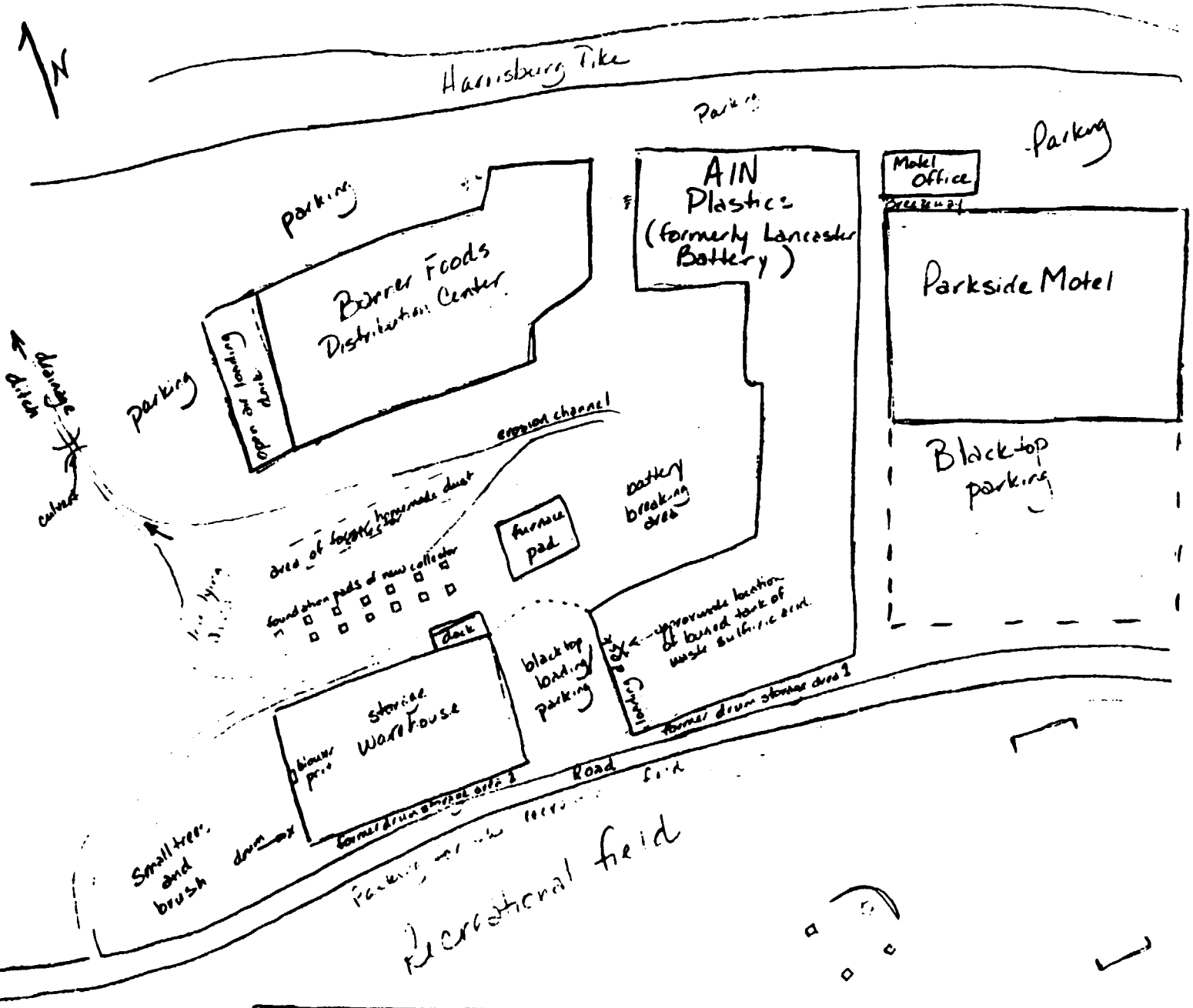
VI. Regional Recommendation

Because the conditions at the Lancaster Battery Site meet the NCP Section 300.65 criteria for a Removal Action, I recommend your approval of this request. The esitmated cost for cleanup activities, which will be acted upon by EPA, is $588,800 of which $451,000 is for the ERCS contractor.

You may indicate your approval or disapproval by signing below.

APPROVAL _____ DATE 3/9/87

DISAPPROVAL _____ DATE _____



SITE SKETCH
LANCASTER BATTERY SITE
MANHEIM TOWNSHIP LANCASTER COUNTY, PA

AR100005

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Centers for Disease Control
Atlanta, Georgia 30333

Date: January 16, 1987

Subject: Lancaster Battery Site,
Lancaster County, Pennsylvania

From: Senior Regional Representative
ATSDR, Region III

To: Michael Zickler, Senior On-Scene Coordinator
U.S. EPA, Region III

As requested, the data package which you provided to me on January 13, 1986 regarding the Lancaster Battery Site has been reviewed by me and the ATSDR technical staff. Given the extremely high levels of lead (up to 509,000 ppm), we feel that this site poses a significant threat to public health.

In light of the above, the following recommendations were made by the ATSDR staff for your consideration:

1. Perform additional environmental sampling to better determine the extent and magnitude of offsite migration of lead, especially in the recreational field across the road from the storage warehouse, and in and around the Parkside Motel.

2. Perform environmental sampling in the AIN Plastics building to determine the opportunity for lead exposure by AIN employees.

3. Develop additional information about the contents of the buried tank under the loading dock.

4. Develop additional information about the Banner Food Company to determine whether or not Banner's employees, and the food packing and processing operations are at risk of being exposed to fugitive lead contaminated dust.

5. Restrict public access to known areas of contamination and prevent further offsite migration of contaminants.

6. Provide dust suppression during removal operations to minimize offsite migration of contaminants, and implement appropriate respiratory protection for workers during removal operations in accordance with EPA/OSHA regulations.

As additional information becomes available, we will be happy to provide further health assessments on this site. I hope the above comments will be useful to you. Should you have any additional questions, please feel free to contact me.

AR100094

Charles J. Walters

cc: Mr. Buynoski
Mr. Gray

: #1 SPILL NOTIFICATION
/85

INCOMING SPILL REPORT

CASE [illegible]

(COMPLETE ALL SECTIONS)

3 _____ 308: Y ___ N ✓

:EIVED REGION III BY: JTR DATE 5/28/86 TIME: 1530

'ORTED TO NRC ___ BY: Greg Harder PHONE # (717) 657-4[illegible]

ORGANIZATION: PADER

ADDRESS: _____

CITY: Harrisburg STATE: PA ZIP _____

TIZEN INQUIRY:

___ N ✓

[illegible] (717) 394-7596 [illegible] Meyers [illegible] of property [illegible] operator

[illegible] Manix Last known operator [illegible] closing in Dec 85

RESPONSIBLE PARTY

NAME: Lancaster Battery PHONE # ( )

ADDRESS: 1330 Harrisburg Pike

CITY: Manheim Twp STATE: Lancaster County ZIP _____

SPILL LOCATION

LOCATION: Same as above

ADDRESS: _____

CITY: _____ COUNTY: _____ STATE: _____

WATERWAY AFFECTED (IF ANY): _____

AIR RELEASE: ☑

• Bag house dust was left [illegible]
• Up to 32% across street

[illegible] business as of Dec 85 or Jan '86

SPILL DATA

'E: Ongoing TIME: _____ MATERIAL: Airborne lead & lead [illegible]

RCE AND CAUSE: Former battery recycler & manufacturer AMOUNT SPILLED: Unknown

WATER: Y ___ N ___ UNK ✓ CONTAINED: Y ___ N ✓ UNK ___ CLEAN-UP: Y ___ N ✓ UNK ___

LLER NOTIFIED: STATE/LOCAL Harder USCG _____ OTHER: _____

to One

↳ water quality records reviewed during course of developing a PA.

EPA NOTIFICATION

IE, DATE & TIME: USCG _____ WHEELING FIELD OFFICE _____

STATE/LOCAL _____ OTHER _____

AR1000

OSC NOTIFIED RODSTEIN

MENTS: Chronic complaints of airborne particulates by Metal workers [illegible]
Sample: Dec. 14 '83 analysis = 24.4% Pb by PADER Lab → food store

N 1-14

REGION III INCIDENT NOTIFICATION REPORT

12/01/86

1. Case No.: PA87227

2. Reported: (mm/dd/yy) FALL 86 | 3. Time: | Recorded By: MZ Robles

☐ Through NRC: | 5. NRC Case No.:

A. REPORTER

6. Reported By: PADER

7. Organization Name: DOUG LORENZEN

8. Organization: ☐ 9. discharger ☐ 10. public ☐ 11. state ☐ 12. local ☐ 13. federal

14. Address:

15. City: | 16. County: | 17. State PA

18. Zip: | 19. Phone: ( )

B. DISCHARGER

20. ☐ As Above in A if 9 applies | 21. Name: Lancaster Battery site

22. Address:

23. City: Manheim Twnp | 24. County: Lancaster | 25. State Pa

26. Zip: | 27. Phone: ( )

C. INCIDENT LOCATION

28. ☒ As Above in B | 29. Street or Approx. Location:

30. City: | 31. County: | 32. State

D. DATE

33. Spill Date: (mm/dd/yy) | 34. Spill Time:

E. MATERIAL

Material: ☐ Oil ☐ hazardous substance	35. Material ☐ Unknown	UN/DOT No	CAS No.	CHRIS Code	Quantity Spilled	Units (Circle 1)
36. lead		37.	38.	39.	40. Unk	41. lb. bbl. gal. oth
42.		43.	44.	45.	46.	47. lb. bbl. gal. oth
48.		49.	50.	51.	52.	53. lb. bbl. gal. oth

F. SOURCE

Source of Spill: ☐ 54. highway ☐ 55. air transport ☐ 56. railway ☐ 57. vessel ☒ 58. fixed facility ☐ 59. pipeline ☐ 60. offshore ☐ Federal facility ☐ Unknown

61. Vehicle ID or Carrier No.:

62. Description: plant operations

G. MED.

Medium Affected: ☐ 63. air ☒ 64. land ☐ 65. water ☐ drinking water ☐ 66. groundwater ☐ 67. within facility only ☐ none

68. Waterway Affected

H. CAUSE

Reported Cause: ☐ 69. transportation accident ☐ 70. equipment failure ☐ 71 operational error ☐ 72. natural phenomenon ☐ 73. dumping ☐ 74. unknown ☐ 75. other

76. Description: fugitive emissions

I. DAM

Damages: 77. no. of injuries _____ 78. no of deaths _____ ☐ 79. property damage > $50,000

J. ACTIONS

80. ☐ Evacuation | 81. Response Action Taken:

K. NOTIFIED

Caller Has Notified: ☒ 82. state/local ☐ 83. discharger ☐ 84. USCG ☐ 85. other ☐ 86. unknown

Agency Name: Pa DER + Health Dept. aware of site

L. COMMENTS

87. Comments: OSC Jay Rodstein was originally told of site by DER.

TAT did assessment on 12-11-86. | ☒ Additional Information

M. REGION DATA FIELDS

Responsibility: ☒ EPA ☐ USCG | ☐ Non-duty hours | ☐ CWA 311 Spill letter

Response by: ☐ responsible party ☐ State ☐ local ☐ OSC ☒ other ☐ USCG

Agency Name: EPA (TAT)

If OSC: Name _____ ☐ 311 Activation – PIC # _____ ☐ CERCLA Activation

AR100096

EPA NOTIFICATION: Name, date, & time; USCG: _____ WFO: _____ State/local: _____ EPA: _____ OSC notified: _____ Referral: _____

SITE/SAFETY PROTOCOL March 17, 1987

LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

GENERAL

This protocol addresses the safety procedures that will be followed by any and all personnel visiting the site or involved in the CERCLA removal activity at Lancaster Battery Site. All personnel entering the site shall read and sign this safety plan. The protocol will remain in effect until the OSC certifies that the activity is terminated. It does not supercede any Federal OSHA or State or local regulations but is in addition to them. In the event of a conflict between this protocol and a regulation, the more stringent of the two will be in force.

Respiratory Protection Program

All contractor and governmental personnel involved in on-site activities shall have a written respiratory protection program and prove that they are physically fit to wear a respirator. All personnel wearing air-purifying respirators on-site are required to be fit tested, while those wearing pressure-demand self-containing breathing apparatus or air-line apparatus, must be properly trained and experienced in their use. All respiratory protection equipment is to be properly decontaminated at the end of each workday.

Persons having beards or facial hair must not wear a respirator.

Training and Medical Monitoring Program

Personnel will have either formal training or on-the-job training for those tasks they are assigned to perform on the active site. All unfamiliar activities will be rehearsed beforehand.

All contractor and governmental personnel who are exposed to hazardous levels of chemicals shall prove that they are enrolled in a medical monitoring program.

General Safety Rules and Equipment

a. There will be no eating, drinking or smoking in the Exclusion Area or hot side of the Contamination Reduction Area.

b. All personnel must pass through the Contamination Reduction Area to enter the Exclusion Area.

c. An emergency eye wash will be on the hot side of the Contamination Reduction Area.

d. As a minimum, an emergency deluge shower/spray can is to be located on the clean side of the Contamination Reduction Area.

e. At the end of the work, all personnel working in the Exclusion Area shall take a hygenic shower.

f. All supplied breathing air shall be certified as Grade D or better.

g. Fire extinguishers will be on-site for equipment or personnel fires only.

h. A first-aid kit will be on-scene at all times during operational hours. An oxygen inhalator respirator and a qualified operator will be available. The location of these items on-site will be posted.

i. Persons having beards or facial hair must not wear respirators.

j. No work will be performed in the exclusion area during hours of darkness as determined by the site safety officer.

Morning Safety Meeting

A morning safety meeting will be conducted each day for all site personnel who sign a daily attendance sheet. The safety procedures, evacuation procedures, and escape procedures, as well as the day's planned operations, should be discussed.

CONTROL AT THE SITE

Access to the site will be restricted by a site security officer and banner guard installed during the immediate removal phase at this site and exit from the site shall be through the gate in the Contamination Reduction Area except in a life-threatening emergency.

All persons entering the site shall sign in and out at the OSC command post or with the site security officer.

DESIGNATION OF WORK AREAS AT THE SITE

The entire site will be divided into three areas: (1) Exclusion Area which known to be or have a potential for becoming contaminated: (2) the Contamination Reduction Area where decontamination of personnel and equipment exiting the Exclusion Area is performed; (3) the Support Area which is not contaminated.

The Exclusion Area (EA)

At the Lancaster Battery Site, the Exclusion Area shall initially include all areas inside the banner guard.

The Contamination Reduction Area (CRA)

At the Lancaster Battery Site, the Contamination Reduction Area will be located immediately outside the EA and will be delineated by roped off area.

The Support Area (SA)

At the Lancaster Battery Site, the Support Area will be the area outside Exclusion Area and Contamination Area.

Changes in Designation of Work Areas

As work progresses on site, the OSC may determine that an area previously designated an EA is no longer classified in that manner. It is not intended, however, to change the designation of the CRA since this may involve the movement of the decontamination facilities and added expense.

SAFETY PROCEDURES AND LEVELS OF PROTECTION

Exclusion Area

1. All personnel shall enter and exit the Exclusion Area through the Contamination Reduction Area.

2. Emergency escape routes from the Exclusion Area will be established and reviewed as appropriate at each morning safety meeting.

SAFETY PROCEDURES AND LEVELS OF PROTECTION (continued)

Exclusion Area

3. All personnel in the Exclusion Area shall use the protective equipment designated for their job function but in no case shall less than LEVEL C be used.

4. Personnel performing the following job functions in the Exclusion Area will utilize the designated level of protection equipment.

Prime Contractor

a. Excavation operations will be performed in Level C.

b. Soil removal operations will be performed in Level C.

c. Maintenance of filter fencing will be done in Level C.

Contamination Reduction Area

1. Personnel and equipment decontamination will be performed in Level C.

2. All personnel entering the CRA will utilize a minimum of Level C protection.

3. All personnel entering the CRA must decontaminate which will be performed in Level C.

4. All equipment entering the CRA must be decontaminated prior to leaving the CRA.

Support Area

1. No contaminated equipment or personnel may enter the Support Area.

2. Level D will be appropriate for all personnel in the Support Area.

DECONTAMINATION PROTOCOL

All equipment and personnel entering the site must be thoroughly decontaminated prior to leaving the gate. Since there are various protocol and equipment available for this purpose, the OSC will determine if the proposed decontamination techniques are applicable. Such determinations will be made on a day-to-day basis as on-site operations dictate.

ON-SITE AIR MONITORING

See attached.

EMERGENCY PROCEDURES

In the event of a medical or other emergency, the OSC or his designee will notify the appropriate authority. The following list of phone numbers will be posted prominently at each telephone on-site:

1. Fire 911
2. Ambulance 911
3. Police 911
4. Federal Government (215) 597-9898 - EPA Emergency Response
5. State Government (717) 787-1708 - PA Department of Health
6. County/City Government (717) 569-6408 - Jim Martin, Twp. Manager
7. EPA Environmental Response Team (201) 321-6660
8. Hospitals St. Joseph's - (717) 291-8211
   Directions: South on Harrisburg Pike, Right on College Avenue; located on corner of College Avenue and Chestnut St.

SITE SAFETY PROTOCOL
ATTACHMENT

Proposed Air Sampling Plan for
Lancaster Battery Site, Manheim Township
Lancaster County, PA

I. Background

The Lancaster Battery Site is located on the Harrisburg Pike in Manheim Township, PA. The site is located in a predominantly commercial area with a large, often used athletic field located forty feet to the south. The one (1) acre site is contaminated with high levels of lead and elevated levels of arsenic, cadmium and chromium. Preliminary analytical data from soil samples showed lead levels as high as 509,000 ppm. Of the fifteen surface soil samples taken on site, thirteen showed lead levels greater that 5,000 ppm. Normal lead levels in soil do not exceed 300 ppm in the eastern United States.

The site was once used for breaking automobile and truck batteries. The scrap lead was then melted and collected. An unlined lagoon was once used to collect acid wastes from the batteries. This material was then neutralized and released to the sewer system.

In March 1987, ERCs contractors will begin excavation of lead contaminated soil from the site. The contaminated soil will be replaced with an estimated 1,200 cubic yards of clean fill.

II. Baseline Air Sampling

Prior to the removal of metal contaminated soil baseline air sampling for lead, chromium, cadmium and arsenic will be performed. Three (3) high volume air samples using glass fiber filters will be performed. One (1) will be positioned in the center of the work site, one (1) will be positioned on the perimeter of the site along the Harrisburg Pike, and one (1) will be positioned as a background sample in the center of the ball fields approximately 200 feet south of the site. The one (1) positioned along the Harrisburg Pike should provide a rough estimate of the lead contribution from leaded gasoline combustion. The high volume samplers will run for four (4) hours at a flow rate of 40 cubic feet per minute. A real-time, particulate monitoring device (RAM) will be used to take readings of total suspended particulates (TSP) at 30 minute intervals at each of the three (3) monitoring locations. The results of the RAM readings will be compared with the analytical results for lead to determine whether a good correlation exists between TSP levels and lead levels. Since the chromium, cadmium and arsenic levels are orders of magnitude less than the lead levels in soil these metals will be analyzed for only during the baseline sampling day and the first day of soil excavation. Only if these metals approach 1% of the OSHA-PEL would future samples be analyzed for chromium, cadmium, and arsenic. (No National Ambient Air Quality Standards [NAAQS] exist for these metals, hence the selection of 1% of OSHA-PEL).

III. Air Sampling

During the removal daily air sampling will be conducted. The offsite background location will remain the same as in the baseline air sampling. The on-site air sampling location will be located in the center of the area that is expected to be excavated on that day. The third high volume sampler will be located at the site perimeter in a downwind direction. If possible, this sample will run for a full 24 hour period. The NAAQS for lead in a 24 hour period is 1.5 micrograms/cubic meter. In addition to these ambient high volume samples, one (1) ERCs employee involved with soil excavation will be hooked up with a Gilian HFS113UT pump and a mixed cellulose ester casette at a flow rate of 2.0 liters/minute. Sampling and analysis of the personal sample will be conducted in accordance with NIOSH Method P & CAM S341. If the personal sample should exceed by ten fold the OSHA-PEL for lead, which is 50 micrograms/cubic meter, then consideration will be given to changes in the site safety protocol and daily work practices. The full face air purifying respirator with appropriate cartridges or canisters for protection against dust (100 fold personal protection factor) may need to be replaced by level B respiratory protection. This may not be necessary if TSP and airborne lead levels can be reduced by greater wetting of the soil with water/surfactant solution.

Analytical results for lead levels will be available within 24 hours of delivery of the samples to a local laboratory. If the lead levels from the first day of removal are all very low, then consideration will be given to performing air sampling on a less frequent basis. The sampling times are subject to change once on-site air sampling begins.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF HEALTH
AIR POLLUTION CONTROL

TC	1	FC	2-13
	5		

PROCESS INFORMATION

PROCESS ENIS. IDENT.	PROCESS OR OPERATION EXHAUSTING CONTAMINANTS TO THE ATMOSPHERE					MATERIALS PROCESSED OR PRODUCED AT PROCESS OR OPERATION				PROCESS EXHAUST VOLUME (SCFM)
	NUMBER OF UNITS	NAME OR TYPE OF PROCESS OR OPERATION	CODE	AP	DATE OF INSTALLATION MO. - YR.	TYPE OF MATERIAL	QUANTITY NORMAL	QUANTITY PEAK	UNITS (1)	
14-16	17-18		19-23	24	25-30		31-35	36-40	41	42-47
101	1	Lead Cupola furnace			06-1955	Lead Scrap	500.0	750.0	1	17070
102	1	Lead melting pot			1957	pig lead	200.0	250.0	1	3450
103	1	Mixer			1958	Lead oxide	0.0 ~~600.0~~	600.0	1	3450
104	2	Assembly Table			1960	grup	720.0	720.0	1	1000
105	1	Grup burning table			1960	grup	720.0	720.0	1	500
106	1	Pitch Melting pot			1960	pitch	8.0	8.0	3	100
107	1	Spray paint area			1968	Lacquer	1.0	2.0	3	4250
108	1	Plate cleaner			1960	Lead plates	0	720.0	1	3450

APPROVED

FOOTNOTE (1)
1 - POUNDS/HOUR 3 - GALLONS/HOUR
2 - TONS/HOUR 4 - CUBIC FEET IN THOUSANDS/HOUR

PERSON PREPARING REPORT (SIGNATURE & TITLE)

DATE

FILE 36-189 (AMBIANT)

(1)

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY COMPANY
LOCATION: LANCASTER COLLECTED BY: B. CAWLEY

STATION NAME: MADONNA'S GARAGE(DOWNWIND SITE) (1317 Hog Pike)
STATION NUMBER: DOWN.
MOTOR SERIAL NUMBER: /79

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. cu m.	TSP ug/cum	LEAD ug/cum
250	29108	12/23 0(0)M	53	12/23 24(0)M	53	24.00	53.0	2162	122	1.44
251	29109	12/29 0(0)M	55	12/29 24(0)M	55	24.00	55.0	2244	91	0.44
252	29111	1/ 4 0(0)M	55	1/ 4 24(0)M	54	24.00	54.5	2224	53	0.26
*253	29112	2/ 9 0(0)M	56	2/ 9 24(0)M	56	24.00	56.0	2285	66	0.49
254	29113	2/15 0(0)M	57	2/15 24(0)M	56	24.00	56.5	2305	83	0.81
255	29114	2/21 0(0)M	57	2/21 24(0)M	56	24.00	56.5	2305	31	0.15
256	29117	2/27 0(0)M	57	2/27 24(0)M	55	24.00	56.0	2285	47	0.50
257	29115	3/ 5 0(0)M	57	3/ 5 24(0)M	56	24.00	56.5	2305	33	0.22
258	29116	3/11 0(0)M	58	3/11 24(0)M	56	24.00	57.0	2326	42	0.62

* AP NUMBER 4148 ANALYSIS BY LW 04/30/81

BB

*New motor #6544 installed

AR100105

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY COMPANY
LOCATION: LANCASTER COLLECTED BY: B. CAWLEY

STATION NAME: MADONNA'S GARAGE (DOWNWIND SITE)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 16779

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. cu m.	TSP ug/cum	LEAD ug/cum
243	29045	11/11 0(0)M	53	11/11 24(0)M	53	24.00	53.0	2162	59	0.51
244	29046	11/17 0(0)M	53	11/17 24(0)M	53	24.00	53.0	2162	82	0.79
246	29104	11/29 0(0)M	53	11/29 24(0)M	53	24.00	53.0	2162	33	0.33
247	29105	12/ 5 0(0)M	53	12/ 5 24(0)M	53	24.00	53.0	2162	55	0.31
248	29106	12/11 0(0)M	53	12/11 24(0)M	53	24.00	53.0	2162	42	0.34
249	29107	12/17 0(0)M	53	12/17 24(0)M	53	24.00	53.0	2162	81	0.55

AP NUMBER 3666 ANALYSIS BY TL,LC 01/13/81

BB

AR100106

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY
LOCATION: LANCASTER

COLLECTED BY: B. CAWLEY

STATION NAME: MADONNA'S GARAGE(DOWNWIND)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 16779

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. cu m.	TSP ug/cum	LEAD ug/cum
236	28938	9/30 0(0)M	56	9/30 24(0)M	53	24.00	54.5	2224	69	0.42
237	28939	10/ 6 0(0)M	53	10/ 6 24(0)M	53	24.00	53.0	2162	49	0.54
238	28940	10/12 0(0)M	55	10/12 24(0)M	53	24.00	54.0	2203	76	0.49
239	28941	10/18 0(0)M	54	10/18 24(0)M	54	24.00	54.0	2203	61	0.31
240	28942	10/24 0(0)M	54	10/24 24(0)M	54	24.00	54.0	2203	66	1.72
241	28943	10/30 0(0)M	54	10/30 24(0)M	53	24.00	53.5	2183	41	0.33
242	28944	11/ 5 0(0)M	54	11/ 5 24(0)M	53	24.00	53.5	2183	24	0.13

AP NUMBER 3781 ANALYSIS BY TL,LC 12/09/80

BB

AR100IC

FILE 76-109

36-189

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY
LOCATION: LANCASTER

COLLECTED BY: B. CAWLEY

STATION NAME: MADONNA'S GARAGE (DOWNWIND)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 16779

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. cu m.	TSP ug/cum	LEAD ug/cum
231	28335	8/31 0(0)M	53	8/31 24(0)M	53	24.00	53.0	2162	37	0.22
232	28336	9/ 6 0(0)M	53	9/ 6 24(0)M	53	24.00	53.0	2162	66	0.59
233	28337	9/12 0(0)M	57	9/12 24(0)M	53	24.00	55.0	2244	74	0.96
234	28338	9/18 0(0)M	53	9/18 24(0)M	53	24.00	53.0	2162	56	0.43
235	28339	9/24 0(0)M	53	9/24 24(0)M	53	24.00	53.0	2162	56	0.33

AP NUMBER 3648 ANALYSIS BY TL,BL 10/21/80

BS

AR100108

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY
LOCATION: LANCASTER

COLLECTED BY: B. CAWLEY

STATION NAME: MADONNA'S GARAGE(DOWNWIND)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 16779

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVG. cfm	VOL. cu m.	TSP ug/cum	LEAD ug/cum
226	28330	8/ 1 0(0)M	51	8/ 1 24(0)M	50	24.00	50.5	2060	100	1.04
227	28331	8/ 7 0(0)M	52	8/ 7 24(0)M	50	24.00	51.0	2081	90	0.79
228	28332	8/13 0(0)M	52	8/13 24(0)M	52	24.00	52.0	2122	52	0.54
229	28333	8/19 0(0)M	52	8/19 24(0)M	52	24.00	52.0	2122	69	0.84
230	28334	8/25 0(0)M	54	8/25 24(0)M	51	24.00	52.5	2142	73	0.69

AP NUMBER 3537 ANALYSIS BY TL,BL 09/09/80

BB

AR10010

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

36-187

COMPANY: LANCASTER BATTERY
LOCATION: LANCASTER

COLLECTED BY: B. CAWLEY

STATION NAME: MADONNA'S GARAGE(DOWNWIND SITE)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 16779

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. cu m.	TSP ug/cum	LEAD ug/cum
221	28325	7/ 2 0(0)M	55	7/ 2 24(0)M	51	24.00	53.0	2162	71	0.94
222	28326	7/ 8 0(0)M	52	7/ 8 24(0)M	52	24.00	52.0	2122	44	1.66
223	28327	7/14 0(0)M	54	7/14 24(0)M	53	24.00	53.5	2183	83	0.68
224	28328	7/20 0(0)M	54	7/20 24(0)M	50	24.00	52.0	2122	65	0.41
225	28329	7/26 0(0)M	53	7/26 24(0)M	52	24.00	52.5	2142	69	0.56

AP NUMBER 3449 ANALYSIS BY PTL,BHL 08/12/80

AR100110

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

MPANY: LANCASTER BATTERY COMPANY
CATION: LANCASTER

COLLECTED BY: T. RAINAR

STATION NAME: MADONNA'S GARAGE(DOWNWIND)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 16779

D.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. cu m.	TSP ug/cum	LEAD ug/cum
216	28320	6/ 2 0(0)M	54	6/ 2 24(0)M	53	24.00	53.5	2183	62	0.88
217	28321	6/ 8 0(0)M	55	6/ 8 24(0)M	55	24.00	55.0	2244	30	0.17
218	28322	6/14 0(0)M	55	6/14 24(0)M	54	24.00	54.5	2224	62	0.54
219	28323	6/20 0(0)M	55	6/20 24(0)M	53	24.00	54.0	2203	56	0.23
220	28324	6/26 0(0)M	54	6/26 24(0)M	53	24.00	53.5	2183	61	0.43

AP NUMBER 336R

ANALYSIS BY BETTY LOU

07/15/80

AR100111

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY CO.
LOCATION: LANCASTER

COLLECTED BY: T. RAINAR

STATION NAME: MADONNA'S GARAGE (DOWNWIND SITE)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 16779

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. cu m.	TSP ug/cum	LEAD ug/cum
211	28315	5/ 3 0(0)M	55	5/ 3 24(0)M	53	24.00	54.0	2203	45	0.44
212	28316	5/ 9 0(0)M	53	5/ 9 24(0)M	53	24.00	53.0	2162	71	0.57
213	28317	5/15 0(0)M	53	5/15 24(0)M	53	24.00	53.0	2162	49	0.24
214	28318	5/21 0(0)M	54	5/21 24(0)M	53	24.00	53.5	2183	30	0.41
215	28319	5/27 0(0)M	54	5/27 24(0)M	53	24.00	53.5	2183	68	0.38

NUMBER 3278 ANALYSIS BY BL 06/12/80

AR100112

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY CO.
LOCATION: LANCASTER

COLLECTED BY: T. RAINAR

STATION NAME: MADONNA'S GARAGE(DOWNWIND SITE)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 16779

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. cu m.	TSP ug/cum	LEAD ug/cum
201	28234	4/ 3 0(0)M	56	4/ 3 24(0)M	54	24.00	55.0	2244	*	0.69
203	28236	4/ 9 0(0)M	56	4/ 9 24(0)M	55	24.00	55.5	2264	29	0.18
205	28238	4/15 0(0)M	55	4/15 24(0)M	55	24.00	55.0	2244	41	1.69
207	28240	4/21 0(0)M	57	4/21 24(0)M	53	24.00	55.0	2244	76	0.48
209	28242	4/27 0(0)M	54	4/27 24(0)M	53	24.00	53.5	2183	38	0.27

STATION NAME: BURNHAM TECH CENTER(BACKGROUND SITE)
STATION NUMBER: BACK
MOTOR SERIAL NUMBER: 3056

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. cu m.	TSP ug/cum	LEAD ug/cum
202	28235	4/ 3 0(0)M	52	4/ 3 24(0)M	52	24.00	52.0	2122	83	0.46
204	28237	4/ 9 0(0)M	53	4/ 9 24(0)M	52	24.00	52.5	2142	33	0.25
206	28239	4/15 0(0)M	52	4/15 24(0)M	52	24.00	52.0	2122	36	0.17
208	28241	4/21 0(0)M	54	4/21 24(0)M	51	24.00	52.5	2142	90	0.41
210	28314	4/27 0(0)M	52	4/27 24(0)M	52	24.00	52.0	2122	*	0.20

AP NUMBER 3196 ANALYSIS BY B. LOU 05/08/80

* TSP voided due to missing filter pieces

STATION NAME: BURNHAM TECH CENTER(BACKGROUND)
STATION NUMBER: BACK
MOTOR SERIAL NUMBER: 3056

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. cu m.	TSP ug/cum	LEAD ug/cum
170	28178	2/ 8 0(0)M	53	2/ 8 24(0)M	52	24.00	52.5	2142	68	0.48
172	28180	2/12 0(0)M	53	2/12 24(0)M	51	24.00	52.0	2122	97	0.42
174	28182	2/15 0(0)M	52	2/15 24(0)M	52	24.00	52.0	2122	99	0.35
176	28184	2/20 0(0)M	52	2/20 24(0)M	50	24.00	51.0	2081	119	1.10
178	28186	2/25 0(0)M	51	2/25 24(0)M	51	24.00	51.0	2081	106	0.58
180	28188	2/27 0(0)M	51	2/27 24(0)M	51	24.00	51.0	2081	45	0.24
182	28190	2/29 0(0)M	51	2/29 24(0)M	51	24.00	51.0	2081	46	0.25
184	28192	3/ 4 0(0)M	52	3/ 4 24(0)M	51	24.00	51.5	2101	96	0.81
186	28219	3/ 6 0(0)M	53	3/ 6 24(0)M	51	24.00	52.0	2122	59	0.32
188	28221	3/10 0(0)M	52	3/10 24(0)M	52	24.00	52.0	2122	93	0.67
190	28223	3/16 0(0)M	52	3/16 24(0)M	51	24.00	51.5	2101	48	0.28
192	28225	3/20 0(0)M	53	3/20 24(0)M	53	24.00	53.0	2162	81	0.44
194	28227	3/22 0(0)M	54	3/22 24(0)M	51	24.00	52.5	2142	21	0.11
196	28229	3/25 0(0)M	51	3/25 24(0)M	51	24.00	51.0	2081	43	0.22
198	28231	3/28 0(0)M	52	3/28 24(0)M	52	24.00	52.0	2122	63	0.41
200	28233	4/ 1 0(0)M	53	4/ 1 24(0)M	51	24.00	52.0	2122	45	0.26

AP NUMBER 2992 ANALYSIS BY TL,BL,FB 04/08/80

AR100114

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY
LOCATION: LANCASTER

COLLECTED BY: T. RAINAR

STATION NAME: MADONNA'S GARAGE(DOWNWIND)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 16779

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. cu m.	TSP ug/cum	LEAD ug/cum
169	28177	2/ 8 0(0)M	59	2/ 8 24(0)M	57	24.00	58.0	2366	68	0.55
171	28179	2/12 0(0)M	59	2/12 24(0)M	57	24.00	58.0	2366	92	0.38
173	28181	2/15 0(0)M	59	2/15 24(0)M	58	24.00	58.5	2387	75	0.66
175	28183	2/20 0(0)M	59	2/20 24(0)M	55	24.00	57.0	2326	111	1.45
177	28185	2/25 0(0)M	57	2/25 24(0)M	57	24.00	57.0	2326	70	0.76
179	28187	2/27 0(0)M	58	2/27 24(0)M	57	24.00	57.5	2346	51	1.53
181	28189	2/29 0(0)M	58	2/29 24(0)M	56	24.00	57.0	2326	28	0.18
183	28191	3/ 4 0(0)M	59	3/ 4 24(0)M	56	24.00	57.5	2346	99	2.26
185	28218	3/ 6 0(0)M	58	3/ 6 24(0)M	55	24.00	56.5	2305	54	0.47
187	28220	3/10 0(0)M	56	3/10 24(0)M	54	24.00	55.0	2244	91	0.79
189	28222	3/16 0(0)M	55	3/16 24(0)M	55	24.00	55.0	2244	42	0.32
191	28224	3/20 0(0)M	56	3/20 24(0)M	56	24.00	56.0	2285	92	0.57
193	28226	3/22 0(0)M	58	3/22 24(0)M	57	24.00	57.5	2346	14	0.12
195	28228	3/25 0(0)M	56	3/25 24(0)M	56	24.00	56.0	2285	39	0.31
197	28230	3/28 0(0)M	56	3/28 24(0)M	54	24.00	55.0	2244	64	0.46
199	28232	4/ 1 0(0)M	56	4/ 1 24(0)M	55	24.00	55.5	2264	37	0.36

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY
LOCATION: LANCASTER COLLECTED BY: T. RAINAR

STATION NAME: MADONNA'S GARAGE(DOWNWIND)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 5930

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. cu m.	TSP ug/cum	LEAD ug/cum
159	28026	1/22		1/22	SAMPLE VOID MOTOR FAILURE					
*161	28169	1/24	57	1/24	57	24.00	57.0	2326	46	0.61
		0(0)M		24(0)M						
163	28171	1/30	60	1/30	59	24.00	59.5	2428	61	0.39
		0(0)M		24(0)M						
165	28173	2/ 1	58	2/ 1	58	24.00	59.0	2366	100	0.19
		0(0)M		24(0)M						
167	28175	2/ 6	60	2/ 6	58	24.00	59.0	2407	73	0.39
		0(0)M		24(0)M						

STATION NAME: BURNHAM TECH CENTER(BACKGROUND)
STATION NUMBER: BACK
MOTOR SERIAL NUMBER: 3056

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. cu m.	TSP ug/cum	LEAD ug/cum
160	28168	1/22	52	1/22	51	24.00	52.0	2122	72	0.81
		0(0)M		24(0)M						
162	28170	1/24	52	1/24	52	24.00	52.0	2122	50	0.29
		0(0)M		24(0)M						
164	28172	1/30	54	1/30	52	24.00	53.0	2162	67	0.39
		0(0)M		24(0)M						
166	28174	2/ 1	54	2/ 1	52	24.00	53.0	2162	83	0.16
		0(0)M		24(0)M						
168	28176	2/ 6	53	2/ 6	51	24.00	52.0	2122	125	0.43
		0(0)M		24(0)M						

AP NUMBER 2941 ANALYSIS BY L.C.M. 02/18/80

*NEW MOTOR #16779 INSTALLED

AR100116

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY
LOCATION: LANCASTER

COLLECTED BY: T. RAINAR

STATION NAME: MADONNA'S CARAGE(DOWNWIND)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 5930

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m^3	TSP ug/m^3	LEAD ug/m^3
149	29016	1/ 7 0:(0)M	54	1/ 7 24:(0)M	52	24.00	53.0	2162	45	0.51
151	29018	1/10 0:(0)M	54	1/10 24:(0)M	51	24.00	52.5	2142	144	1.09
153	29020	1/14 0:(0)M	53	1/14 24:(0)M	52	24.00	52.5	2142	88	0.62
155	29022	1/16 0:(0)M	54	1/16 24:(0)M	53	24.00	52.5	2183	89	1.20
157	29024	1/18 0:(0)M	54	1/18 24:(0)M	51	24.00	52.5	2142	56	0.96

STATION NAME: BURNHAM TECH CENTER(BACKGROUND)
STATION NUMBER: BACK
MOTOR SERIAL NUMBER: 2560

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m^3	TSP ug/m^3	LEAD ug/m^3
150	29017	1/ 7 0:(0)M	54	1/ 7 24:(0)M	52	24.00	53.0	2162	40	0.29
152	29019	1/10		1/10	SAMPLE VOID MOTOR FAILURE					
* 154	29021	1/14 0:(0)M	49	1/14 24:(0)M	49	24.00	49.0	1999	73	0.59
156	29023	1/16 0:(0)M	52	1/16 24:(0)M	52	24.00	52.0	2122	109	0.77
158	29025	1/18 0:(0)M	52	1/18 24:(0)M	51	24.00	51.5	2101	48	0.50

AP NUMBER 2976 ANALYSIS BY TL,BL 01/24/90

* NEW MOTOR #3056 INSTALLED

AR100111

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY
LOCATION: LANCASTER
COLLECTED BY: T. RAINAR

STATION NAME: MADONNA'S GARAGE(DOWNWIND)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 5970

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3
139	28006	12/17 0(0)M	56	12/17 24(0)M	55	24.00	55.5	2264	37	0.26
141	28008	12/20 0(0)M	55	12/20 24(0)M	55	24.00	55.0	2244	42	0.39
143	28010	12/22 0(0)M	57	12/22 24(0)M	55	24.00	56.0	2285	103	1.29
145	28012	12/26 0(0)M	57	12/26 24(0)M	55	24.00	56.0	2285	22	0.22
147	28014	1/ 2 0(0)M	55	1/ 2 24(0)M	54	24.00	54.5	2224	68	0.60

STATION NAME: BURNHAM TECH CENTER(BACKGROUND)
STATION NUMBER: BACK
MOTOR SERIAL NUMBER: 3560

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3
140	28007	12/17 0(0)M	56	12/17 24(0)M	54	24.00	55.0	2244	51	0.21
142	28009	12/20 0(0)M	55	12/20 24(0)M	55	24.00	55.0	2244	55	0.48
144	28011	12/22 0(0)M	57	12/22 24(0)M	54	24.00	55.5	2264	117	1.29
146	28013	12/26 0(0)M	55	12/26 24(0)M	55	24.00	55.0	2244	23	0.19
148	28015	1/ 2 0(0)M	55	1/ 2 24(0)M	54	24.00	54.5	2224	69	0.44

AP NUMBER 2831 ANALYSIS BY FB , BL 01/08/80

BB

AR100118

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY CO.
LOCATION: LANCASTER

COLLECTED BY: T. RAINAR

STATION NAME: MADONNA'S GARAGE(DOWNWIND SITE)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 5930

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVG. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3
						SAMPLE VOID	MOTOR	OUT-INSTALL		NEW MOTOR 50%
127	27994	11/28		11/28						
129	27996	11/30	52	11/30	50	24.00	51.0	2081	50	2.10
		0(0)M		24(0)M						
131	27998	12/ 5	52	12/ 5	52	24.00	52.0	2122	83	1.13
		0(0)M		24(0)M						
133	28000	12/ 7	52	12/ 7	52	24.00	52.0	2122	49	0.72
		0(0)M		24(0)M						
135	28002	12/11	56	12/11	52	24.00	54.0	2203	102	2.84
		0(0)M		24(0)M						
137	28004	12/13	55	12/13	54	24.00	54.5	2224	36	0.43
		0(0)M		24(0)M						

STATION NAME: BURNHAM TECH CENTER(BACKGROUND SITE)
STATION NUMBER: BACK
MOTOR SERIAL NUMBER: 3560

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVG. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3
128	27995	11/28	56	11/28	55	24.00	55.5	2264	42	0.46
		0(0)M		24(0)M						
130	27997	11/30	56	11/30	55	24.00	55.5	2264	70	0.87
		0(0)M		24(0)M						
132	27999	12/ 5	55	12/ 5	54	24.00	54.5	2224	47	0.45
		0(0)M		24(0)M						
134	28001	12/ 7	54	12/ 7	54	24.00	54.0	2203	35	0.66
		0(0)M		24(0)M						
136	28003	12/11	55	12/11	52	24.00	53.5	2183	108	1.34
		0(0)M		24(0)M						
138	28005	12/13	55	12/13	54	24.00	54.5	2224	22	0.32
		0(0)M		24(0)M						

AP NUMBER 2797 ANALYSIS BY BETTY LOU 12/19/79

AR10011.

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY
STATION: LANCASTER

COLLECTED BY: T. RAINAR

STATION NAME: MADONNA'S GARAGE(DOWNWIND)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 3046

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3
115	27982	11/ 5 0(0)M	80	11/ 5 24(0)M	77	24.00	78.5	3203	81	2.61
117	27984	11/12 0(0)M	81	11/12 24(0)M	79	24.00	80.0	3264	62	0.85
119	27986	11/14 0(0)M	80	11/14 24(0)M	77	24.00	78.5	3203	28	0.45
121	27988	11/16 0(0)M	79	11/16 24(0)M	80	24.00	79.5	3244	41	0.95
123	27990	11/20 0(0)M	80	11/20 24(0)M	77	24.00	78.5	3203	156	2.49
125	27992	11/26 0(0)M	78	11/26 24(0)M	77	24.00	77.5	3162	10	0.03

STATION NAME: BURNHAM TECH CENTER(BACKGROUND)
STATION NUMBER: BACK
MOTOR SERIAL NUMBER: 3560

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3
116	27983	11/ 5 0(0)M	55	11/ 5 24(0)M	54	24.00	54.5	2224	72	1.57
118	27985	11/12 0(0)M	55	11/12 24(0)M	53	24.00	54.0	2203	61	0.42
120	27987	11/14 0(0)M	55	11/14 24(0)M	53	24.00	54.0	2203	43	0.43
122	27989	11/16 0(0)M	56	11/16 24(0)M	54	24.00	55.0	2244	43	0.53
124	27991	11/20 0(0)M	56	11/20 24(0)M	53	24.00	54.5	2224	210	1.83
126	27993	11/26 0(0)M	56	11/26 24(0)M	55	24.00	55.5	2264	22	0.26

AP NUMBER 2737 ANALYSIS BY BETTY LOU 12/04/79

BB

AR100120

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY
LOCATION: LANCASTER COLLECTED BY: T. RAINWR

STATION NAME: MADONNA'S GARAGE
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 3046

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m^3	TSP ug/m^3	LEAD ug/m^3
103	35419	10/15 0(0)M	80	10/15 24(0)M	77	24.00	78.5	3203	60	2.57
105	35185	10/18 0(0)M	79	10/18 24(0)M	76	24.00	77.5	3162	117	2.18
107	35466	10/22 0(0)M	78	10/22 24(0)M	75	24.00	76.5	3121	70	1.45
109	35333	10/24 0(0)M	77	10/24 24(0)M	77	24.00	77.0	3142	33	0.44
111	35174	10/30 0(0)M	81	10/30 24(0)M	77	24.00	79.0	3223	80	1.61
113	35514	11/ 1 0(0)M	81	11/ 1 24(0)M	80	24.00	80.5	3284	58	1.00

STATION NAME: BURNHAM TECHNICAL CENTER
STATION NUMBER: BACK
MOTOR SERIAL NUMBER: 3560

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m^3	TSP ug/m^3	LEAD ug/m^3
104	35453	10/15 0(0)M	56	10/15 24(0)M	54	24.00	55.0	2244	55	0.53
106	35637	10/18 0(0)M	54	10/18 24(0)M	53	24.00	53.5	2183	109	1.73
108	35286	10/22 0(0)M	54	10/22 24(0)M	52	24.00	53.0	2162	79	1.15
110	35535	10/24 0(0)M	53	10/24 24(0)M	53	24.00	53.0	2162	32	0.49
112	35442	10/30 0(0)M	54	10/30 24(0)M	54	24.00	54.0	2203	109	1.34
114	35305	11/ 1 0(0)M	55	11/ 1 24(0)M	53	24.00	54.0	2203	68	0.69

AP NUMBER 2686 ANALYSIS BY B.H.L. 11/21/79

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY
LOCATION: LANCASTER

COLLECTED BY: T. RAINAR

STATION NAME: MADONNA'S GARAGE
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 25

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3	
83	27847	9/11 12(0)P	54	9/12 12(0)P	54	24.00	54.0	2203	77	2.02	
85	27849	9/13 12(0)P	54	9/14 12(0)P	53	24.00	53.5	2183	43	0.33	
87	27853	9/17 12(0)P	56	9/18 12(0)P	54	24.00	55.0	2244	72	1.58	
89	27855	9/20 12(0)P	55	9/21 12(0)P	53	24.00	54.0	2203	60	0.69	
91	27857	9/24 12(0)P	54	9/25 12(0)P	54	24.00	54.0	2203	46	0.49	
93	27859	9/26 0(0)M	77	9/26 24(0)M	72	24.00	74.5	3040	72	1.69	M.N. 30
95	27861	10/ 1 0(0)M	76	10/ 1 24(0)M	76	24.00	76.0	3101	31	0.77	
	27860	10/ 5 0(0)M	78	10/ 5 24(0)M	77	24.00	77.5	3162	44	0.67	
99	27865	10/10 0(0)M	78	10/10 24(0)M	76	24.00	77.0	3142	25	0.35	
101	27867	10/12 0(0)M	79	10/12 24(0)M	77	24.00	78.0	3182	39	0.54	

STATION NAME: BURNHAM TECHNICAL CENTER
STATION NUMBER: BACK
MOTOR SERIAL NUMBER: 11916

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3	
84	27848	9/11 12(0)P	47	9/12 12(0)P	46	24.00	46.5	1897	80	0.83	
86	27850	9/13 12(0)P	48	9/14 12(0)P	48	24.00	48.0	1958	49	0.38	
88	27854	9/17 12(0)P	49	9/18 12(0)P	48	24.00	48.5	1979	62	0.89	
90	27856	9/20 12(0)P	49	9/21 12(0)P	47	24.00	48.0	1958	72	0.69	
92	27858	9/24 12(0)P	48	9/25 12(0)P	47	24.00	47.5	1938	79	0.63	
	27860	9/26 0(0)M	53	9/26 24(0)M	52	24.00	52.5	2142	2	0.08	M.N. 356
	27862	10/ 1 0(0)M	52	10/ 1 24(0)M	52	24.00	52.0	2122	34	0.52	
98	27864	10/ 5 0(0)M	55	10/ 5 24(0)M	53	24.00	54.0	2203	46	0.47	
100	27866	10/10 0(0)M	54	10/10 24(0)M	54	24.00	54.0	2203	20	0.28	
102	27868	10/12	55	10/12	54	24.00	54.5	2224	35	0.51	

AR100122

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY CO.
LOCATION: LANCASTER

COLLECTED BY: T. RAINAR

STATION NAME: MADONNA'S GARAGE(DOWNWIND)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 25

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m^3	TSP ug/m^3	LEAD ug/m^3
41	27607	7/19 0(0)M	56	7/19 24(0)M	55	24.00	55.5	2264	65	0.67
43	27609	7/23 0(0)M	55	7/23 24(0)M	54	24.00	54.5	2224	87	18.06
45	27611	7/26 0(0)M	55	7/26 24(0)M	54	24.00	54.5	2224	82	3.76
47	27613	7/30 0(0)M	55	7/30 24(0)M	55	24.00	55.0	2244	53	1.59
49	27615	8/ 1 0(0)M	56	8/ 1 24(0)M	55	24.00	55.5	2264	83	7.51
51	27617	8/ 4 0(0)M	56	8/ 4 24(0)M	54	24.00	55.0	2244	95	22.56
53	27619	8/ 7 12(0)P	56	8/ 8 11(0)A	54	23.00	55.0	2151	61	0.78
55	27621	8/ 8 1(0)P	56	8/ 9 1(0)P	54	24.00	55.0	2244	57	0.75
57	27623	8/ 9 1(0)P	56	8/10 1(0)P	54	24.00	55.0	2244	83	0.96
59	27625	8/10 1(0)P	55	8/11 1(0)P	55	24.00	55.0	2244	80	1.65
61	27828	8/13 12(0)P	58	8/14 12(0)P	56	24.00	57.0	2326	53	0.98
63	27829	8/14 12(0)P	55	8/15 12(0)P	55	24.00	55.0	2244	51	0.64
65	27851	8/17 12(0)P	55	8/18 12(0)P	53	24.00	54.0	2203	67	0.88
67	27832	8/22 12(0)P	55	8/23 12(0)P	53	24.00	54.0	2203	62	1.05
69	27834	8/25 12(0)P	56	8/26 12(0)P	53	24.00	54.5	2224	49	0.51
71	27831	8/29 12(0)P	56	8/30 12(0)P	54	24.00	55.0	2244	65	0.92
73	27837	8/30 12(0)P	55	8/31 12(0)P	55	24.00	55.0	2244	87	1.41
75	27839	9/ 1 12(0)P	55	9/ 2 12(0)P	53	24.00	54.0	2203	58	0.34
77	27841	9/ 5 12(0)P	55	9/ 6 12(0)P	54	24.00	54.5	2224	39	0.32
79	27843	9/ 6 12(0)P	55	9/ 7 12(0)P	53	24.00	54.0	2203	77	1.07
81	27845	9/ 8 12(0)P	55	9/ 9 12(0)P	53	24.00	54.0	2203	21	0.28

AR100123

STATION NAME: BURNHAM TECH CENTER(BACKGROUND)
STATION NUMBER: BACK
MOTOR SERIAL NUMBER: 11916

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3
42	27609	7/19 0(0)M	49	7/19 24(0)M	48	24.00	48.5	1979	59	0.49
44	27610	7/23 0(0)M	49	7/23 24(0)M	49	24.00	49.0	1999	53	1.78
46	27612	7/26 0(0)M	50	7/26 24(0)M	49	24.00	49.5	2020	40	1.39
48	27614	7/30 0(0)M	49	7/30 24(0)M	48	24.00	48.5	1979	59	0.86
50	27616	8/ 1 0(0)M	49	8/ 1 24(0)M	47	24.00	48.0	1958	64	2.45
52	27618	8/ 4 0(0)M	48	8/ 4 24(0)M	47	24.00	47.5	1938	79	4.04
54	27620	8/ 7 12(0)P	49	8/ 8 12(0)P	48	24.00	48.5	1979	47	0.42
56	27622	8/ 8 1(0)P	50	8/ 9 1(0)P	49	24.00	49.5	2020	71	0.66
58	27624	8/ 9 1(0)P	50	8/10 1(0)P	48	24.00	49.0	1999	VOID*	0.52
60	27826	8/10 1(0)P	50	8/11 1(0)P	49	24.00	49.5	2020	67	0.45
	27827	8/13 12(0)P	50	8/14 12(0)P	50	24.00	50.0	2040	47	0.52
64	27830	8/14 12(0)P	51	8/15 12(0)P	50	24.00	50.5	2060	54	0.39
66	27852	8/17 12(0)P	49	8/18 12(0)P	46	24.00	47.5	1938	54	0.83
68	27833	8/22 12(0)P	48	8/23 12(0)P	48	24.00	48.0	1958	54	0.69
70	27835	8/25 12(0)P	49	8/26 12(0)P	49	24.00	49.0	1999	41	0.39
72	27836	8/29 12(0)P	47	8/30 12(0)P	47	24.00	47.0	1918	52	0.49
74	27838	8/30 12(0)P	48	8/31 12(0)P	47	24.00	47.5	1938	95	0.86
76	27840	9/ 1 12(0)P	49	9/ 2 12(0)P	48	24.00	48.5	1979	58	0.38
78	27842	9/ 5 12(0)P	48	9/ 6 12(0)P	47	24.00	47.5	1938	56	0.28
80	27844	9/ 6 12(0)P	47	9/ 7 12(0)P	47	24.00	47.0	1918	78	0.58
82	27846	9/ 8 12(0)P	47	9/ 9 12(0)P	47	24.00	47.0	1918	20	0.28

AP NUMBER 2412 ANALYSIS BY S.H.,T.L.,B.L. 09/18/79

* TSP voided-corner of filter missing

AR100124

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY COMPANY
LOCATION: LANCASTER COLLECTED BY: T. RAINAR

STATION NAME: MADONNA'S GARAGE(DOWNWIND)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 25

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3
31	27597	7/ 3 0(0)M	55	7/ 3 24(0)M	55	24.00	55.0	2244	21	0.13
33	27599	7/ 5 0(0)M	57	7/ 5 24(0)M	56	24.00	56.5	2305	30	0.23
35	27601	7/ 9 0(0)M	56	7/ 9 24(0)M	53	24.00	54.5	2224	93	2.73
37	27603	7/12 0(0)M	55	7/12 24(0)M	53	24.00	54.0	2203	137	1.38
39	27605	7/17 0(0)M	55	7/17 24(0)M	55	24.00	55.0	2244	86	20.82

STATION NAME: BURNHAM TECH CENTER(BACKGROUND)
STATION NUMBER: BACK
MOTOR SERIAL NUMBER: 11916

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3
32	27598	7/ 3 0(0)M	50	7/ 3 24(0)M	50	24.00	50.0	2040	21	0.14
34	27600	7/ 5 0(0)M	50	7/ 5 24(0)M	50	24.00	50.0	2040	34	0.22
36	27602	7/ 9 0(0)M	51	7/ 9 24(0)M	49	24.00	50.0	2040	67	0.80
38	27604	7/12 0(0)M	50	7/12 24(0)M	48	24.00	49.0	1999	113	0.80
40	27606	7/17 0(0)M	49	7/17 24(0)M	49	24.00	49.0	1999	54	0.95

AP NUMBER 2367 ANALYSIS BY T. LYTER, B. LOU 07/31/79

AR100I

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

T. RAINAR

COMPANY: LANCASTER BATTERY COMPANY
LOCATION: LANCASTER

COLLECTED BY: T. RAINAR

1.5 mg. threshold
mg/m3
National Ambient
Air Quality Standard
(NAAQS)

STATION NAME: MADONNA'S GARAGE(DOWNWIND)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 25

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3
11	27577	5/25 0(0)M	56	5/25 24(0)M	55	24.00	55.5	2264	39	0.91
13	27579	5/31 0(0)M	56	5/31 24(0)M	54	24.00	55.0	2244	94	0.78
15	27581	6/ 4 0(0)M	56	6/ 4 24(0)M	55	24.00	55.5	2264	40	0.69
17	27583	6/ 6 0(0)M	56	6/ 6 24(0)M	54	24.00	55.0	2244	135	23.76
19	27585	6/ 8 0(0)M	56	6/ 8 24(0)M	54	24.00	55.0	2244	96	0.69
21	27587	6/12 0(0)M	57	6/12 24(0)M	55	24.00	56.0	2285	60	2.42
23	27589	6/14 0(0)M	56	6/14 24(0)M	53	24.00	54.5	2224	86	3.95
25	27591	6/20 0(0)M	55	6/20 24(0)M	54	24.00	54.5	2224	82	1.29
27	27593	6/25 0(0)M	55	6/25 24(0)M	53	24.00	54.0	2203	68	12.56
29	27595	6/27 0(0)M	55	6/27 24(0)M	55	24.00	55.0	2244	77	2.46

STATION NAME: BURNHAM TECH CENTER(BACKGROUND)
STATION NUMBER: BACK
MOTOR SERIAL NUMBER: 11916

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3
12	27578	5/25 0(0)M	50	5/25 24(0)M	50	24.00	50.0	2040	34	0.43
14	27580	5/31 0(0)M	51	5/31 24(0)M	48	24.00	49.5	2020	94	0.68
16	27582	6/ 4 0(0)M	49	6/ 4 24(0)M	49	24.00	49.0	1999	61	1.07
18	27584	6/ 6 0(0)M	51	6/ 6 24(0)M	49	24.00	50.0	2040	149	6.95
20	27586	6/ 8 0(0)M	49	6/ 8 24(0)M	49	24.00	49.0	1999	77	0.53
22	27588	6/12 0(0)M	51	6/12 24(0)M	50	24.00	50.5	2060	63	0.85
24	27590	6/14 0(0)M	50	6/14 24(0)M	50	24.00	50.0	2040	63	1.50
26	27592	6/20 0(0)M	52	6/20 24(0)M	50	24.00	51.0	2081	55	0.50
28	27594	6/25 0(0)M	51	6/25 24(0)M	50	24.00	50.5	2060	54	0.[illegible]
30	27596	6/27 0(0)M	49	6/27 24(0)M	49	24.00	49.0	1999	46	0.67

AR-000126

AB NUMBER 2277 ANALYSIS BY BETTY LOU 07/10/79

COMMONWEALTH OF PENNSYLVANIA
BUREAU OF AIR QUALITY CONTROL
HIGH-VOLUME SAMPLING REPORT

COMPANY: LANCASTER BATTERY COMPANY
LOCATION: LANCASTER COLLECTED BY: T. RAINAR

STATION NAME: MADONNA'S GARAGE (DOWNWIND)
STATION NUMBER: DOWN
MOTOR SERIAL NUMBER: 25

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3
1	27194	5/ 7 0(0)M	56	5/ 7 24(0)M	54	24.00	55.0	2244	82	0.60
3	27196	5/10 0(0)M	55	5/10 24(0)M	54	24.00	54.5	2224	129	1.29
5	27198	5/14 0(0)M	56	5/14 24(0)M	54	24.00	55.0	2244	50	0.50
7	27200	5/17 0(0)M	58	5/17 24(0)M	56	24.00	57.0	2326	63	1.30
9	27202	5/22 0(0)M	57	5/22 24(0)M	55	24.00	56.0	2285	80	1.60

STATION NAME: BURNHAM TECH CENTER (BACKGROUND)
STATION NUMBER: BACK
MOTOR SERIAL NUMBER: 11916

NO.	FILTER NUMBER	START DATE	cfm	STOP DATE	cfm	TOTAL HOURS	AVE. cfm	VOL. m↑3	TSP ug/m↑3	LEAD ug/m↑3
2	27195	5/ 7 0(0)M	52	5/ 7 24(0)M	48	24.00	50.0	2040	76	0.51
4	27197	5/10 0(0)M	49	5/10 24(0)M	48	24.00	48.5	1979	99	0.63
6	27199	5/14 0(0)M	49	5/14 24(0)M	49	24.00	49.0	1999	51	0.49
8	27201	5/17 0(0)M	51	5/17 24(0)M	50	24.00	50.5	2060	53	0.77
10	27576	5/22 0(0)M	51	5/22 24(0)M	50	24.00	50.5	2060	83	0.62

AP NUMBER 2211 ANALYSIS BY S. HARVEY, B. LOU 06/07/79

BB

AR10012

The third area of concern involves piles of lead dust, probably consisting of various lead oxides and metallic lead, left on the soil and inside pipes and debris from the removed pollution control equipment. The facility closed in December, 1985 to January, 1986 without addressing these problems. Additionally, it has been reported that a tank of waste sulfuric acid is buried beneath the loading dock (See sketch).

It is recommended that the dust piles be scheduled for immediate emergency removal. Sampling of soils could be conducted to determine the extent of contamination. Adjacent well sampling could provide information on groundwater contamination. Further historical research and review of aerial photos may reveal location of lagoon, which may require additional sampling of soil and waste if present. The underground waste acid tank should be investigated and contents removed if present. Additionally, it may be valuable to conduct a health study on motel employees to evaluate lead exposure.

Environmental Resources
June 9, 1986

SUBJECT: Preliminary Assessment
Lancaster Battery

TO: Douglas Lorenzen, Chief
Remedial Response Section
Division of Emergency & Remedial Response

FROM: Gregory L. Harder
Resources Recover Planning and Coordinator
Harrisburg Regional Office

Lancaster Battery manufactured and recycled lead acid batteries. Initially, this site was investigated because of records indicating past operation of a lagoon which may have contained hazardous waste. Three (3) areas of concern have surfaced during investigation of this site:

1. Past operation of a wastewater lagoon.

2. Documented air contamination.

3. Piles of lead dust currently on the ground on-site.

The past operation of a wastewater lagoon is documented in Bureau of Water Quality Management's files. The lagoon was discovered in 1971. The unlined lagoon, estimated to 8 ft. by 15 ft. by 2 ft., received wastewater containing lead and other metals from the manufacturing process. The water was diverted to the sewer. Closure of the lagoon is not documented. The exact location is unknown, however aerial photographs from 1971 show a distrubed area in the southwest portion of the property at or near the current oxide mixing/melting pot building, which was built between 1971 and 1974.

Air contamination is documented in the Bureau of Air Quality Control's files. Dust samples taken from vacuum cleaner bags at the adjacent motel in 1983 and 1984 showed lead levels of 24 percent and 32 percent! This also indicates potential exposure of motel workers and guests to high lead levels. Additionally, ambient air samples taken at Madonna's Garage (northeast of Harrisburg Pike) in 1979 showed high ambient levels of lead.

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Lancaster Battery	1330 Harrisburg Pike

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Lancaster	PA	17604	Lancaster		

09 COORDINATES LATITUDE	LONGITUDE
40°04'14" N	76°19'53" W

10 DIRECTIONS TO SITE (Starting from nearest public road)
Located on the Harrisburg Pike about 3/4 mile southeast of route 30

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
Charles W. and Genevieve E. Myers	1428 Center Road

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Lancaster	PA	17604	(717) 394-7546

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Stuart C. Manix	1116 Wheatland Ave.

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
Lancaster	PA	17603	(717) 397-3794

13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES ☐ NO DATE 03/31/86 (MONTH DAY YEAR)
BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
Unknown (BEGINNING YEAR) | 1986 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
lead, sulfuric acid, and others as listed in Part 2, Section IV.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
past activities may have lead to contamination of soil, surface water, groundwater and air.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☒ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Greg Harder	PADER	(717) 657-4588

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
SAME	—	—	—	06/09/86 (MONTH DAY YEAR)

AR 300130

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- [ ] A SOLID
- [X] B POWDER, FINES
- [X] C SLUDGE
- [ ] D OTHER _____ (Specify)
- [ ] E SLURRY
- [X] F LIQUID
- [ ] G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS unknown

CUBIC YARDS

NO. OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply)

- [X] A TOXIC
- [X] B CORROSIVE
- [ ] C RADIOACTIVE
- [X] D PERSISTENT
- [X] E SOLUBLE
- [ ] F. INFECTIOUS
- [ ] G FLAMMABLE
- [ ] H IGNITABLE
- [ ] I HIGHLY VOLATILE
- [ ] J EXPLOSIVE
- [ ] K. REACTIVE
- [ ] L INCOMPATIBLE
- [ ] M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS	unknown		
BAS	BASES			
MES	HEAVY METALS	unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	Lead (Pb)	7439921	S1 . PL	15.4	mg/l
MES	Antimony (Sb)	7440360	S1 PL	.85	mg/l
MES	Tin (Sn)	7440315	S1 PL.	1.05	mg/l
ACD	Sulfuric Acid	7664939	S1	unknown	
MES	Cadmium (Cd)	7440439	S1 PL	.10	mg/l
MES	Copper (Cu)	7440508	S1 PL	1.86	mg/l
MES	Arsenic (As)	7440382	S1 PL	.08	mg/l

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	DA		FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Hazardous Substance list based on analysis of Lagoon contents by DER 10-27-71. and analysis summarized in letter to DER 7-11-72.

AR100131

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [ ] OBSERVED (DATE:) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

01 [X] B. SURFACE WATER CONTAMINATION — 02 [ ] OBSERVED (DATE:) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

01 [X] C. CONTAMINATION OF AIR — 02 [X] OBSERVED (DATE: 7-17-79) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION
ambient air contamination analytically documented 7-17-79 and subsequent dates

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS — 02 [ ] OBSERVED (DATE:) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

01 [X] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE:) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION
dust piles exposed on ground and detected in adjacent motel

01 [X] F. CONTAMINATION OF SOIL — 02 [ ] OBSERVED (DATE:) — [X] POTENTIAL — [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: 1 A+ (Acres) — 04 NARRATIVE DESCRIPTION

01 [ ] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE:) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE:) — [ ] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

01 [X] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE:) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION
see "direct contact"

AR100132

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 [X] J. DAMAGE TO FLORA — 02 [ ] OBSERVED (DATE:) — [X] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [X] K. DAMAGE TO FAUNA — 02 [ ] OBSERVED (DATE:) — [X] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 [X] L. CONTAMINATION OF FOOD CHAIN — 02 [ ] OBSERVED (DATE:) — [X] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 [ ] OBSERVED (DATE:) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

01 [X] N. DAMAGE TO OFFSITE PROPERTY — 02 [X] OBSERVED (DATE: 11-31-83) — [ ] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION
lead dust found in adjacent hotel

01 [X] O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 [ ] OBSERVED (DATE:) — [X] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] P. ILLEGAL/UNAUTHORIZED DUMPING — 02 [ ] OBSERVED (DATE:) — [ ] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED:

IV. COMMENTS

see narrative

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

DER waste management, Water Quality and Air Quality files, site visit

AR1001

EPA FORM 2070-12 (7-81)

FIELD TRIP SUMMARY REPORT

This summary should be prepared in conjunction with the Preliminary Assessment, EPA rm 2070-12.

EPA Case Number _____ Site Name Lancaster Battery

Site Description

see narrative

Area of site (acres)	Hazardous portion, if not entire site
1 Acre	est. 1 Acre

Description of processes/operations which took place at the site

see narrative

Waste handling/disposal practices

see narrative

Site topography and runoff drainage pathways

urbanized area, surface water drainageway off site to northwest.

Surface or subsurface drainage areas (leachate) noted?	Odors/stains noted?
none noted	—
	Stressed vegetation noted?

Location and description of streams or receiving waters adjacent to site. Include flow direction and observations. Note location on attached map.

none adjacent

Monitoring wells on site or in vicinity. Note location on attached map.

none

AR100134

Population within ½ mile of site:

- ☐ 0-10
- ☐ 10-100
- ☒ greater than 100

Population within 1 mile of site:

- ☐ 0-10
- ☐ 10-100
- ☐ 100-1000
- ☒ greater than 1000

Surrounding land use (woodlot, agricultural, recreation, industrial, etc.)

NORTH	commercial	EAST	commercial - motel
SOUTH	recreational - ball fields	WEST	vacant lot / commercial / Railroad

Municipal water supply within 3-mile radius (note use of surface water and/or wells)

(Lancaste is served by surface water taken from Susquehanna)
East Petersburg - wells

Reference:

Domestic wells. Approximate number within ½ mile: 1
List nearest wells below and show locations on attached map.

Owner/Resident	Address	Phone
Acco-Tool + Machine Co.	1401 Vermont Ave.	717-394-1321
Rich Meshey owner	Lancaster PA 17603	

Groundwater flow direction, if known

unknown

Description of odor/taste problems

none known

State inspection activity (including permits held)

no permits
numerous Air, water and waste inspections.

State/Federal/Private remedial activities

none

AR100135

Additional comments--Further description of site

See narrative

SITE CONTACTS

Name and Title	Affiliation	Phone
Terry Reinar	DER - Air Quality	717-244-7601

INSPECTION INFORMATION

Name and title of inspector(s) Greg Harder, Resource Recovery and Planning Coordinator

Agency 3-21-86 Phone number 717-657-4588

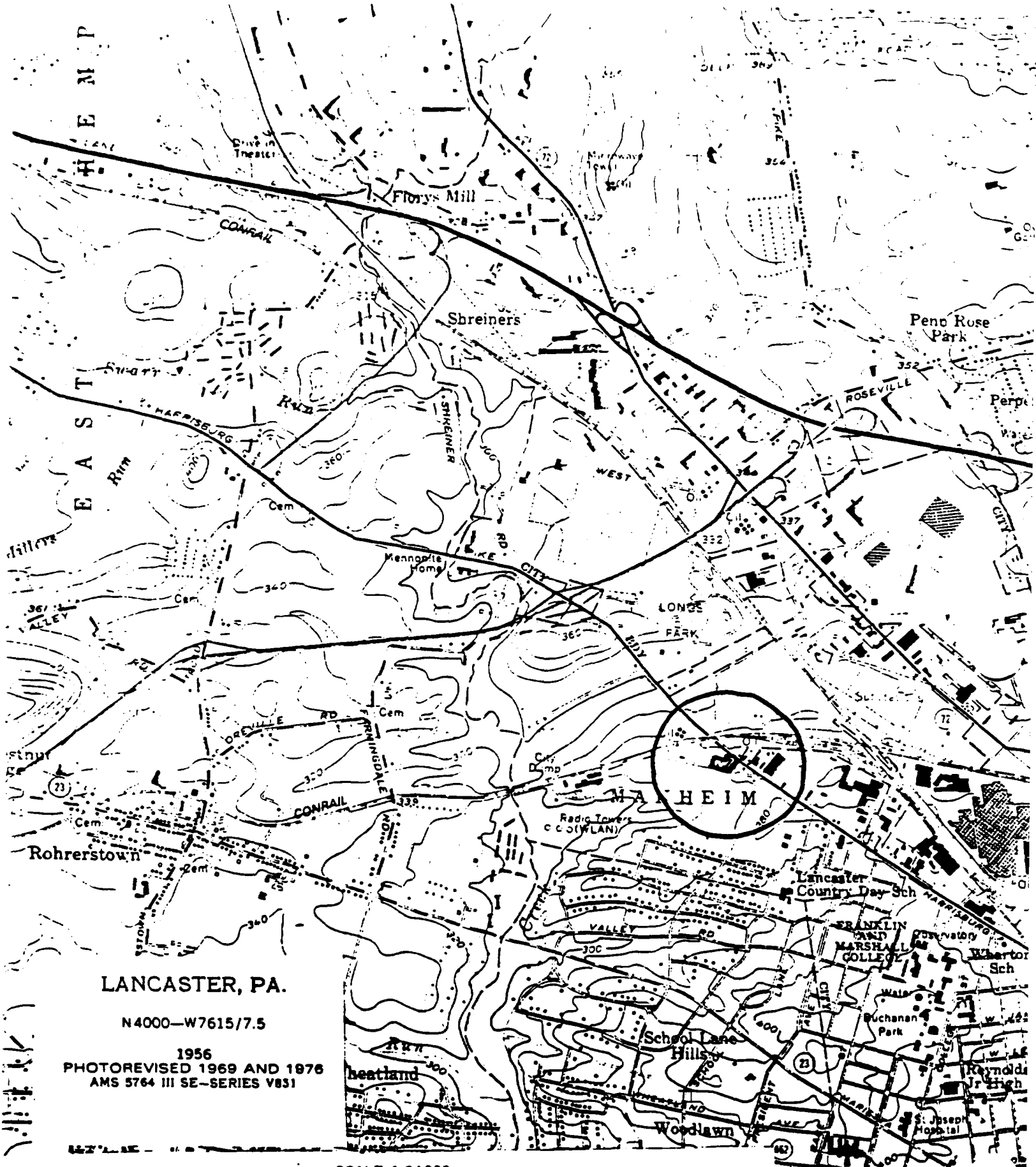
Date Bad weather sunny Time on site 3.0 hours

Weather conditions:

ATTACHMENTS

- o Topographic map identifying site location. Include name of quadrangle map.
- o Site sketch map showing location of monitoring wells, domestic wells, municipal water supplies, and areas of concern (lagoons, leachate seeps, drums, etc.)
- o Any available sampling results or state monitoring data with map showing sample locations.

ARD00136



LANCASTER, PA.

N4000—W7615/7.5

1956
PHOTOREVISED 1969 AND 1976
AMS 5764 III SE—SERIES V831

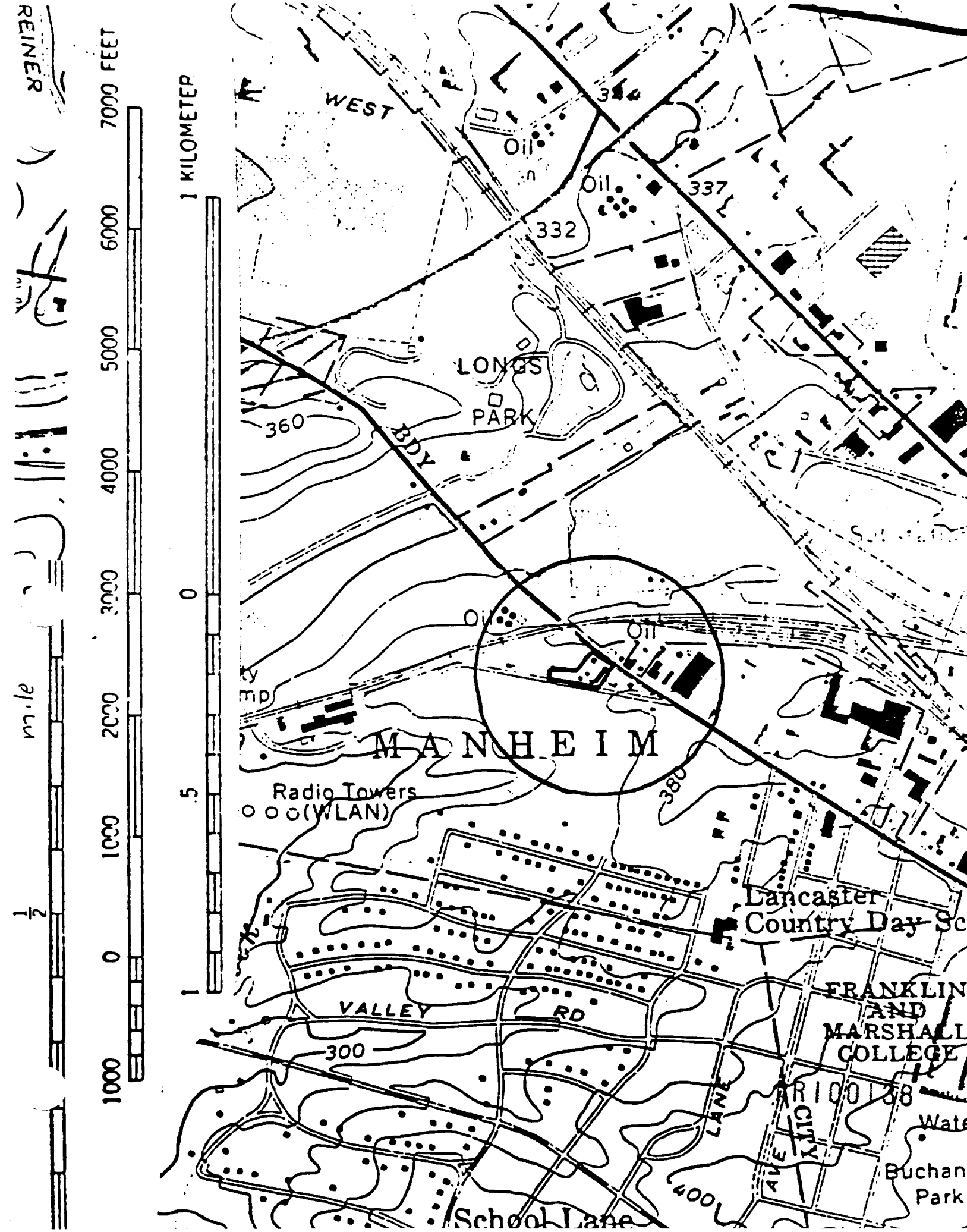
SCALE 1:24000

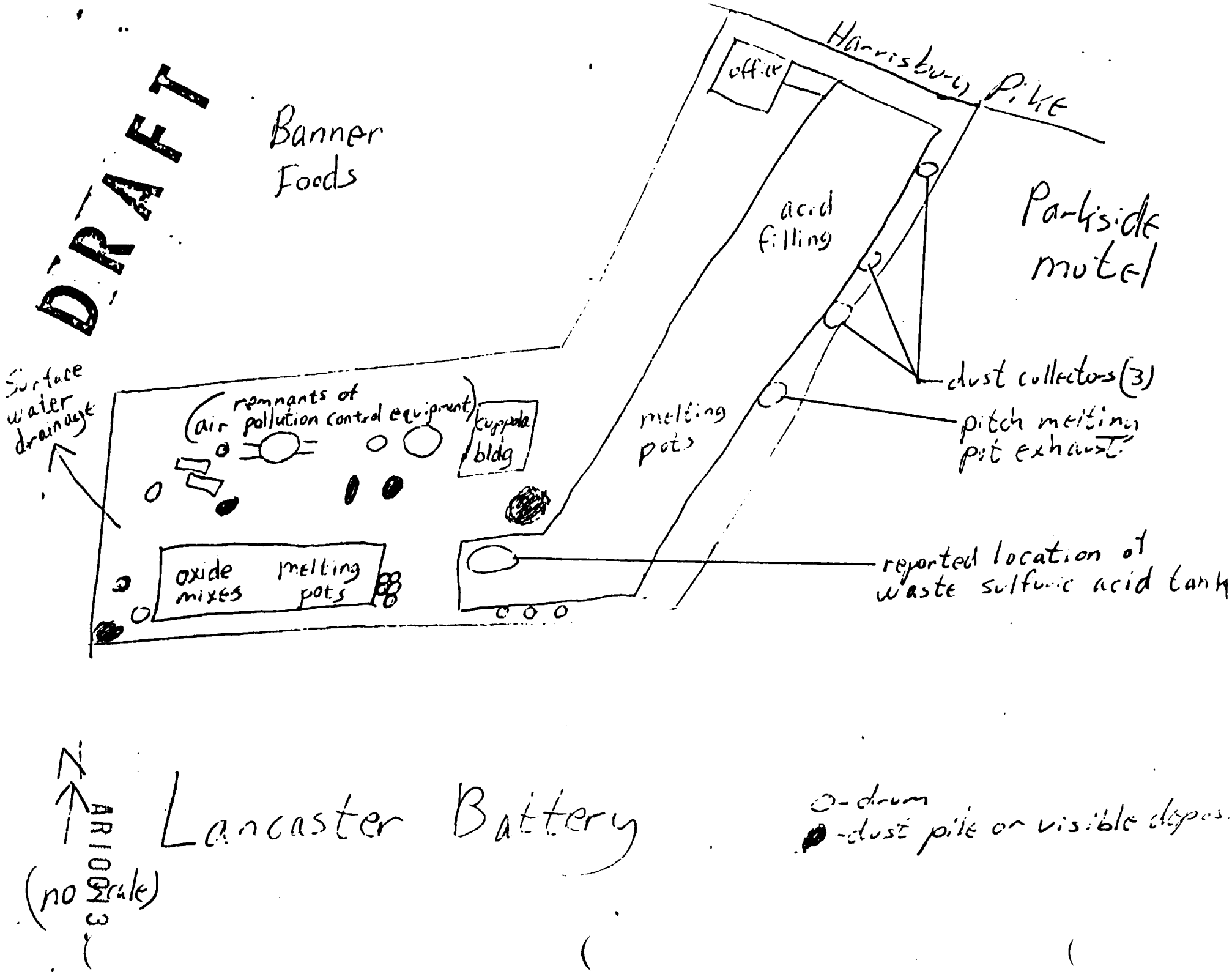
1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929


REINER
7000 FEET
6000
5000
4000
3000
2000
1000
0
1000
1 KILOMETER
0
.5
1
1/2
mile
WEST
Oil
Oil
344
337
332
LONGS
PARK
360
BDY
Oil
Oil
MANHEIM
380
Radio Towers
(WLAN)
Lancaster
Country Day Sc
FRANKLIN
AND
MARSHALL
COLLEGE
VALLEY
RD
300
LANE
CITY
AVE
400
School Lane
Buchan
Park


DRAFT
Banner Foods
Harrisburg Pike
office
acid filling
Parkside motel
dust collectors (3)
pitch melting pot exhaust
melting pots
reported location of waste sulfuric acid tank
Surface water drainage
remnants of air pollution control equipment
cuppola bldg
oxide mixes
melting pots
N
(no scale)
Lancaster Battery
o - drum
● - dust pile or visible depos.

AR100013

Disposal Site Report

Responsible Person : LANCASTER BATTERY CO.
Entity

Inspector : ARTHUR L. DALLA PR.

Date : 06-19-80

Location : 1330 HARRISBURG AVENUE
LANCASTER, PA.

MR STUART C. MANIX, PRESIDENT

Ownership :

Means of Discovery : TERRY RAINER, AQS, LANCASTER

Waste classification, volume & hazards :

BATTERY ACID DRAINS ON GROUND AT REAR OF PLANT WHEN BATTERIES ARE SMASHED - INSIDE REAR ENTRANCE ALL ACID TO 2
BATTERY ACID WASTES IN HOLDING TANK - NEUTRALIZED WITH SODA TO SANITARY SEWER - 100 GAL WEEK
BAG HOUSE WASTES DRUMED - SOLD OVER SEAS TO JAPAN

Topography & Hydrology :

SLOPE 3-5% TOWARD COLUMBIA BR., PENN CENTRAL RAILROAD

Land Use & Population of Area :

INDUSTRIAL

Remarks & Recommendations : NO VISIBLE VIOLATION, INSPECTOR WAS INFORMED THAT ALL ACID + WASH/WATER ENTERS HOLDING TANK, IS NEUTRALIZED AND RELEASED TO SEWER

1772
R-875

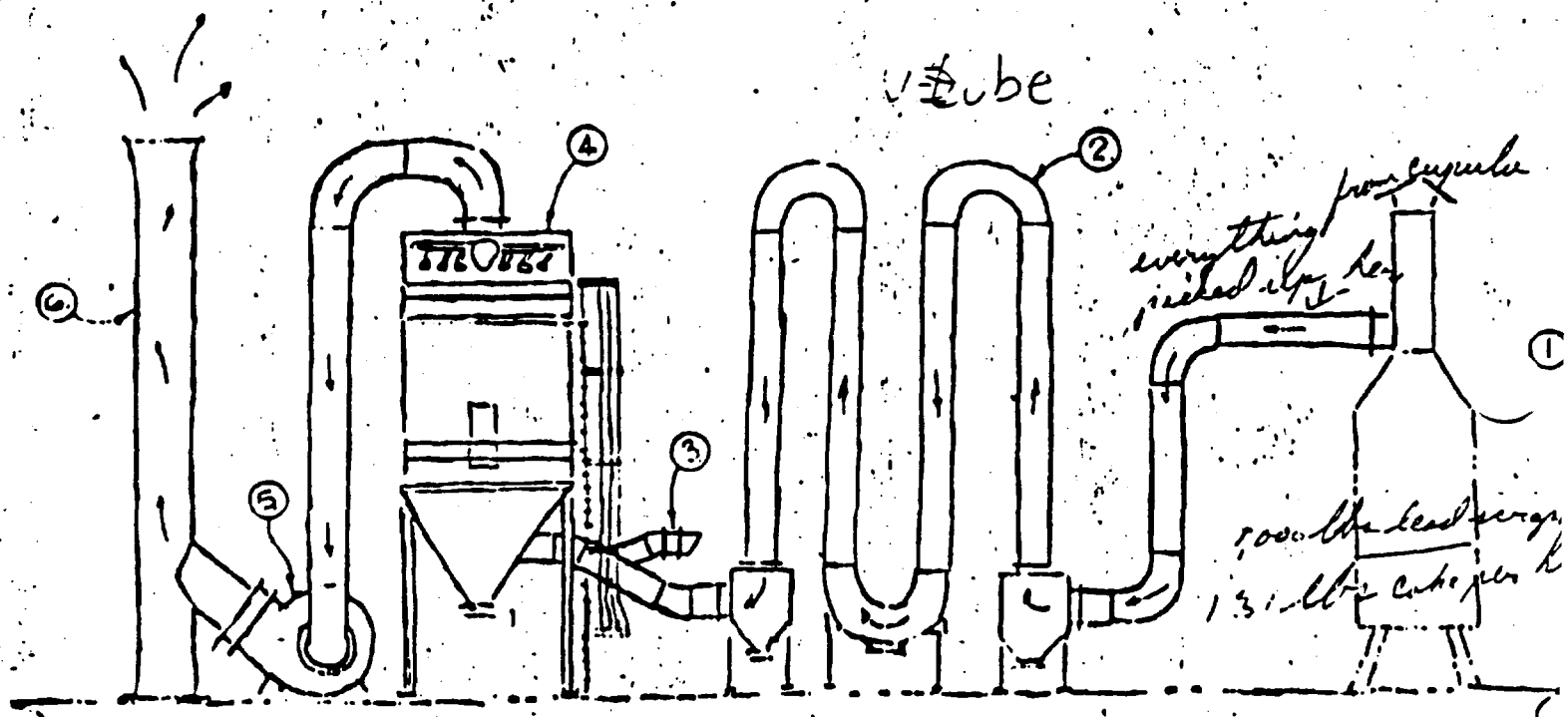
Air Pollution Control Division
Wheelabrator-Frye Inc.

MEMORANDUM

TO: C. Manix

Centrex:
Date:
Subject: LANCASTER BATTERY CO.

SYSTEM COMPONENT DIAGRAM



(1) - EXISTING 1000# LEAD SMELTER.
(2) - 2075 SQ FT. OF U-TUBE COOLER.
(3) - THERMOSTATICLY CONTROLLED DAMPER.
(4) - SIZE 1224-171 W.F.I. SHAKER MODULE.
(5) - SIZE 200 BF FAN W/ 30 HP TEFC MOTOR.
(6) - DISCHARGE STACK, IF REQUIRED.

AR100141

770075 DMR

September 13, 1972

Mr. Vincent Bartashus
Commonwealth of Pennsylvania
Department of Environmental Resources
401 Buttonwood Street
West Reading, Penna., 19602

Dear Mr. Bartashus:

Subject: Lancaster Battery Company

Some phases of the work described on the Project Status Schedule Card which was filed with your office earlier this year by the Lancaster Battery Company, Inc., are behind schedule.

Lancaster Battery has received permission from the City of Lancaster for discharge of its pretreated waste into the City's collection system. A copy of the letter granting approval is enclosed.

Lancaster Battery is proceeding with plans for the provision of pretreatment facilities which will probably be completed in time to begin operation in accordance with the schedule on file.

You will be informed when operation of the facilities will begin.

Very truly yours,

HUTH ENGINEERS INC.

Robert H. Lear, P. E.

RHLIPS
Enc.

AR100142

770073 DAFL

MUNICIPAL BUILDING
Area 717-397-3581

[illegible] North Duke Street
Lancaster, Pa. [illegible]

CITY OF LANCASTER PENNSYLVANIA

BUREAU OF WATER

August 30, 1972

Leslie C. Doremus
Huth Engineers Inc.,
37 N. Duke Street
Lancaster, Penn.

Dear Mr. Doremus:

This is to inform you that we will accept the 300 GPD of waste from Lancaster Battery Company, as described in your letter of August 16, 1972. This is your authorization to commence discharging.

Yours truly,

Alexander A. McIntyre
Supt. of Utilities
Bureau of Water & Sewers

AAMcI:hws

AR100143

770071

July 11, 1972

Mr. Vincent Bartashus
Department of Environmental Resources
401 Buttonwood Street
West Reading, Pennsylvania 19602

Dear Mr. Bartashus:

Subject: Lancaster Battery Company
Manheim Township, Lancaster County

In a letter dated December 10, 1971, from Ralph W. Cook of your office, the Lancaster Battery Company was cited for operating an earthen lagoon for industrial waste water disposal without having a permit from your Department. A Project Status Schedule Card was subsequently submitted, and this letter will report our progress to date and will present our proposal for correcting the situation.

The Company manufactures lead-acid batteries for automobiles and trucks. A plant drain line collects waste water from the manufacturing process and conveys it to the existing lagoon. The waste water consists of uncontaminated cooling water from the grid casting and plate forming operations, equipment wash water, and the general wash water from the manufacturing area. The waste water is acid in character and contains minute quantities of lead, tin, and antimony. Our analysis of the waste indicated the lead content was 5.35 mg/l., the tin content was 1.05 mg/l., and the antimony content was 0.85 mg/l.

All of the water which is discharged to the lagoon is obtained from a well in the plant. A water meter was installed on the well, and the daily flows were recorded for the 24 working-day period of May 22 to June 26. The average daily consumption for this period was 290 gallons/day, with a peak daily flow of 540 gallons/day.

On the basis of the above figures, it is seen that the total pounds of lead, tin, and antimony in the waste water at maximum daily flows are only 0.024, 0.005, and 0.004 pounds/day respectively. In view of the minute quantities involved, we propose to construct a batch treatment facility which will be used to neutralize the waste water prior to its being pumped to the sanitary sewer system of the City of Lancaster via the existing service connection for the plant. We have discussed our proposal with Mr. Alex McIntyre of the City of Lancaster and have received his verbal approval. A written acceptance has been requested from Mr. McIntyre, and it will be forwarded to you as soon as it is received.

AR100144

H710 117

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF HEALTH – DIVISION OF SANITARY ENGINEERING

10-6-

WATER OR WASTE QUALITY REPORT

770060 DNK 772800

A. CASE NAME (PRINTED): Lanc Battery

B. SERIAL: W Rdg | C. COUNTY: Lanc | D. MUNICIPALITY: Manheim. Twp | E. PROGRAM: 1 W | NEW CASE:

F. SOURCE OR RECEIVING STREAM: Lanc. Bat. Well - indoor hose tap | G. TREATMENT TO:

H. COLLECTED BY: Bronner | I. CHEMIST:

SAMPLE NO. (1-8):

CARD NO. (7)	2	CARD NO. (7)	3	CARD NO. (7)	4
DATE (8-13)	MONTH 10 DAY 27 YEAR 71	LAB. NO. (8-10)	001	TOTAL (8-13)	
TIME (14-17)	1325	DATE ANAL. (11-14)	MONTH 10 DAY 28	VOL. (14-18)	
REASON SAMPLED (18)		APPEARANCE (15-17)		FIX (19-22)	
SAMPLED (19-22)		COLOR (18-20)		SUSPEND (24-28)	
PERIOD (23)		COOR (21-23)		VOL. (29-33)	
TYPE TREAT. (24)		TURB (24-28)		FIX (34-38)	
FLOW BASIS (25)		IN (29-31)	6.4	SETTLE (39-43)	
FLOW (26-30)		ALK (32-34)		ADD. CARD (44)	
FLOW COND. (31)		IN_a (37-40)			
TEMP. (C) (32-34)		IN_b (41-45)			
IN (35-37)		Fl TOTAL (46-50)	0.0		
D.O. (35-40)		SO_4 (51-55)	160		
TYPE NAL. (41)		Mn (56-60)	0.0		
NALOGEN (42-44)		Fe^{++} (61-65)			
STD. ANAL. (45-46)		T.O.C. (66-69)			
		C.O.D. (70-74)			
		SPEC. COND. (75-79)	850		
		ADD. CARD (80)			

CARD NO. (7)	5
B.O.D. (8-13)	
NO_3-N (14-18)	
NO_2-N (19-21)	
NH_3-N (22-27)	
ALB-N (28-32)	
HARDNESS (33-37)	
CL (38-42)	
ABS (43-47)	
PO_4 (48-51)	
F (53-57)	

STREAM GAGE

INDUSTRIAL WASTES ONLY

CLASS

PROC. MAT.

ADDITIONAL ANALYSES (LIST)

Pb <0.20
Zn 0.11
Cu 0.03
~~Sn~~
Cd <0.02
Sb <0.10
A 0

REMARKS (APPEARANCE)

AR10014

OCT 28 1971

FEB 95

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF HEALTH - DIVISION OF SANITARY ENGINEERING
WATER OR WASTE QUALITY REPORT 770062

672891

Lancaster Battery

W Rdg | Lanc. | Manheim Twp | TW

Settling "Lagoon"

groundwater ?

Kroner

Card No.	2
Date	10 27 71
Time	1525

Card No.	3
Lab No.	001
Date Anal.	10 28
	7.6
	.977
	45000
	.022
	[illegible]8000

REMARKS

oil is obviously present, no?

lagoon ~ 8' x 15' x 2' deep

ADDITIONAL ANALYSES

Pb	15.4
Zn	0.96
Sr	
Cd	0.0[illegible]
Cu	1.86
Sb	0.43
As	0.05

AR100146

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF HEALTH Priority III
SANITARY ENGINEERING

WASTE INSPECTION REPORT

DATE	10-6-71
FROM	2:30 P.M. TO ___ P.M.

TRADE CODE

CASE NAME: Lancaster Battery Co.	LOCATION—STREET OR STATE ROUTE: 7330 Harrisburg Ave	COUNTY: Lanc	36
RESPONSIBLE OFFICIAL: Charles Myers	TITLE: Pres.	PHONE NO.: 392-7977	MUNICIPALITY: Manheim 9
TYPE INDUSTRY: NW	NO. OF EMPLOYEES OF POPULATION SERVED		TYPE: 3 X
			TYPE CODE: 5
PERSONNEL PRESENT: Auto motive Batteries			SOL. WASTES & SOIL

TREATMENT PROCESS	NO. OF UNITS TOTAL	NO. OPERATING	REMARKS
settling basins	3	3	underdrains in pits; solids removed; liquid runs by gravity to lagoon.
lagoon	1	1	~15' x 8'

LOCATION OF DISCHARGE	pH	CHOR. REQ.	ODOR	TEMP.	B.O.	SPEC. CONT.	GEN. M.O.B.
1. none							
2.							
3.							

RECEIVING STREAM APPEARANCE		
NAME	ABOVE DISC. APP.	BELOW DISC. APP.
none		

WATER & WASTE QUALITY REPORT	
LOCATION	NUMBER

TYPE CODE	0
FOREST MANAGEMENT	3
ENGINEERING COMPLIANCE	3
OPERATION STATUS	5
LAST VIOLATION	1
VIOLATION REPORT	1
OPERATION COMPLIANCE	3
MINE DRAINAGE	
OPERATOR NO.	
PERMIT NO.	
MINE OPERATION STATUS	
ALL PROGRAMS	
DATE OF REPORT	10 06 71
DEPARTMENT STATUS	1
DATE OF ACTION	12 10 71
DATE COMPLIANCE	3

COVER: lined lagoon	CITE VIOLATION OR FOREST SOIL LAW: Art 3 sec 301 CSL.

REMARKS: Plan to convert to dry charging but plans not definite regarding disposal of dry charging wastes. Sanitary wastes (toilets) goes to sewer system.

INVESTIGATOR: E. R. [illegible] TITLE: EPS II | HEADER INVESTIGATOR: Charles [illegible] TITLE:

PAGE ___ OF ___

REGIONAL OFFICE

1, unlike the geometric means shown in table 2, are estimates of geochemical abundance (Miesch, 1967). Arithmetic means are always larger than corresponding geometric means (Miesch, 1967, p. B1) and are estimates of the fractional part of a single specimen that consists of the element of concern rather than of the typical concentration of the element in a suite of samples.

Concentrations of 46 elements in samples of this study are presented in table 2, which gives the determination ratios, geometric-mean concentrations and deviations, and observed ranges in concentrations. The analytical data for most elements as received from the laboratories were transformed into logarithms because of the tendency for elements in natural materials, particularly the trace elements, to have positively skewed

TABLE 2.—*Mean concentrations, deviations, and ranges of elements in samples of soils and other surficial materials in the conterminous United States*

[Means and ranges are reported in parts per million (µg/g), and means and deviations are geometric except as indicated. Ratio, number of samples in which the element was found in measurable concentrations to number of samples analyzed. <, less than; >, greater than]

Element	Conterminous United States			Western United States (west of 96th meridian)					Eastern United States (east of 96th meridian)				
	Mean	Deviation	Estimated arithmetic mean	Ratio	Mean	Deviation	Observed range	Estimated arithmetic mean	Ratio	Mean	Deviation	Observed range	Estimated arithmetic mean
Al, percent	4.7	2.48	7.2	661:770	5.8	2.00	0.5 - >10	7.4	450:477	3.3	2.87	0.7 - >10	5.7
As	5.2	2.23	7.2	728:730	5.5	1.98	<0.10 - 97	7.0	521:527	4.8	2.56	<0.1 - 73	7.4
B	26	1.97	33	506:778	23	1.99	<20 - 300	29	425:541	31	1.88	<20 - 150	38
Ba	440	2.14	580	778:778	580	1.72	70 - 5,000	670	541:541	290	2.35	10 - 1,500	420
Be	.63	2.38	.92	310:778	.68	2.30	<1 - 15	.97	169:525	.35	2.53	<1 - 7	.85
Br	.56	2.30	.85	113:220	.52	2.74	<0.5 - 11	.86	78:128	.62	2.18	<0.5 - 5.3	.85
C, percent	1.6	2.37	2.5	250:250	1.7	2.37	0.16 - 10	2.5	162:162	1.5	2.88	0.06 - 37	2.6
Ca, percent	.92	4.00	2.4	777:777	1.8	3.05	0.06 - 32	3.3	514:514	.34	3.08	0.01 - 28	.63
Ce	63	1.78	75	81:683	65	1.71	<150 - 300	75	70:489	63	1.85	<150 - 300	76
Co	6.7	2.19	9.1	698:778	7.1	1.97	<3 - 50	9.0	403:533	5.9	2.57	<0.3 - 70	9.2
Cr	37	2.37	54	778:778	41	2.19	3 - 2,000	56	541:541	33	2.60	1 - 1,000	52
Cu	17	2.44	25	778:778	21	2.07	2 - 300	27	523:533	13	2.80	<1 - 700	22
F	210	3.34	430	598:610	280	2.52	<10 - 1,900	440	390:435	130	4.19	<10 - 3,700	360
Fe, percent	1.8	2.38	2.6	776:777	2.1	1.95	0.1 - >10	2.6	539:540	1.4	2.87	0.01 - >10	2.5
Ga	13	2.03	17	767:776	16	1.68	<5 - 70	19	431:540	9.3	2.38	<5 - 70	14
Ge	1.2	1.37	1.2	224:224	1.2	1.32	0.58 - 2.5	1.2	130:131	1.1	1.45	<0.1 - 2.0	1.2
Hg	.058	2.52	.089	729:733	.046	2.33	<0.01 - 4.6	.065	534:534	.081	2.52	0.01 - 3.4	.12
I	.75	2.63	1.2	169:246	.79	2.55	<0.5 - 9.6	1.2	90:153	.68	2.81	<0.5 - 7.0	1.2
K, percent[1]	1.5	.79	None	777:777	1.8	.71	0.19 - 6.3	None	537:537	1.2	.75	0.005 - 3.7	—
La	30	1.92	37	462:777	30	1.89	<30 - 200	37	294:516	29	1.98	<30 - 200	37
Li	20	1.85	24	731:731	22	1.58	3 - 130	25	479:527	17	2.16	<5 - 140	22
Mg, percent	.44	3.28	.90	777:778	.74	2.21	0.03 - >10	1.0	528:528	.21	3.55	0.005 - 5	.46
Mn	330	2.77	550	777:777	380	1.98	30 - 5,000	480	537:540	260	3.82	<2 - 7,000	640
Mo	.59	2.72	.97	57:774	.85	2.17	<3 - 7	1.1	32:524	.32	3.93	<3 - 15	.79
Na, percent	.59	3.27	1.2	744:744	.97	1.95	0.05 - 10	1.2	363:449	.25	4.55	<0.05 - 5	.78
Nb	9.3	1.75	11	418:771	8.7	1.82	<10 - 100	10	322:498	10	1.65	<10 - 50	12
Nd	40	1.68	46	120:538	36	1.76	<70 - 300	43	109:332	46	1.58	<70 - 300	51
Ni	13	2.31	19	747:778	15	2.10	<5 - 700	19	443:540	11	2.64	<5 - 700	18
P	260	2.67	430	524:524	320	2.33	40 - 4,500	460	380:382	200	2.95	<20 - 6,800	360
Pb	16	1.86	19	712:778	17	1.80	<10 - 700	20	422:541	14	1.95	<10 - 300	17
Rb	58	1.72	67	221:224	69	1.50	<20 - 210	74	107:131	43	1.94	<20 - 160	53
S, percent	.12	2.04	.16	34:224	.13	2.37	<0.08 - 4.8	.19	20:131	.10	1.34	<0.08 - 0.31	.11
Sb	.48	2.27	.67	35:223	.47	2.15	<1 - 2.6	.62	31:131	.52	2.38	<1 - 8.8	.76
Sc	7.5	1.82	8.9	685:778	8.2	1.74	<5 - 50	9.6	389:526	6.5	1.90	<5 - 30	8.0
Se	.26	2.46	.39	590:733	.23	2.43	<0.1 - 4.3	.34	449:534	.30	2.44	<0.1 - 3.9	.45
Si, percent[1]	31	6.48	None	250:250	30	5.70	15 - 44	None	156:156	34	6.64	1.7 - 45	—
Sn	.89	2.36	1.3	218:224	.90	2.11	<0.1 - 7.4	1.2	123:131	.86	2.81	<0.1 - 10	1.5
Sr	120	3.30	240	778:778	200	2.16	10 - 3,000	270	501:540	53	3.61	<5 - 700	120
Ti, percent	.24	1.89	.29	777:777	.22	1.78	0.05 - 2.0	.26	540:540	.28	2.00	0.007 - 1.5	.35
Th	8.6	1.53	9.4	195:195	9.1	1.49	2.4 - 31	9.6	102:102	7.7	1.58	2.2 - 23	8.6
U	2.3	1.73	2.7	224:224	2.5	1.45	0.68 - 7.9	2.7	130:130	2.1	2.12	0.29 - 11	2.7
V	58	2.25	80	778:778	70	1.95	7 - 300	88	516:541	43	2.51	<7 - 300	66
Y	21	1.78	25	738:778	22	1.66	<10 - 150	25	477:541	20	1.97	<10 - 200	23
Yb	2.6	1.79	3.1	754:764	2.6	1.63	<1 - 20	3.0	452:486	2.6	2.06	<1 - 30	3.3
Zn	48	1.93	60	766:766	55	1.79	10 - 2,100	65	473:482	40	2.11	<5 - 2,900	52
Zr	180	1.91	230	777:778	160	1.77	<20 - 1,500	190	539:541	220	2.01	<20 - 2,000	290

[1]Means are arithmetic; deviations are standard.

AR4000148

WESTON SPER DIVISION
HAZARDOUS WASTE SITE INVESTIGATION AND EMERGENCY RESPONSE
SAFETY PLAN

Assignor: Mike Zickler TDD No. 8612-51
Date of Inspection: 12/11/86 Time: 1030 FCS No. 7051

Site Name: Lancaster Battery
Site Address: Street No. 1330 Harrisburg Pike
City Manheim Twp.
County Lancaster
State PA
Site Contact: Phone 717-291-9300 (new owner - Air Plastic
Directions to Site: PA Turnpike to Rt 222 South to Rt 30 West to Harrisburg Pike South, Site approx. 3/4 South of Rt 30 on the right.

INCIDENT DESCRIPTION (check one from A, B, and C)

TYPE: A) Spill____ Air Release____ Fire____ HW Site ✓ Other____,

B) Assessment ✓ Sampling ✓ Emergency Response____

Clean-up/Removal____ Other_____

C) Urban/Residential____ Commercial____ Industrial____

Rural____

PHYSICAL DESCRIPTION

Containers Involved: Drums____ No.____ Tanks____ No.____

Truck____ License No._____ Tanker___ Box___

Railroad Car____ Tank No.____ Box No.___

Spill____ Source Battery reclaiming site Approx. Vol. unknown

Other_____

MATERIALS INVOLVED:

Name	TLV	IDLH	Overexposure Symptoms	Note: Attach Label Photo/Description to Safety Plan
Lead	0.15	varies	insomnia, abdominal pains, colic, hypotensenim, anemia, gingival lead line	

AR100149

ANTICIPATED LEVEL OF PROTECTION (circle one): A B (C) D
WHY: Known contaminant

FIRST AID INSTRUCTIONS FOR KNOWN CONTAMINANTS: Soap and flush area immediately. use artificial respiration, get immediate medical attention

PERSONNEL EXPOSURE HAZARDS: (H=high, M=moderate, L=low, U=unknown)

Inhalation M Skin Contact M Ingestion____ Radioactive___

Biological____ Fire____ Explosion____ Unknown____

PERSONNEL PHYSICAL SAFETY HAZARDS :

Heat____ Cold____ Noise____ Underground Utilities____

Overhead Utilities____ Heavy Equipment____ Slip. Trip, Fall___

Sharp Objects____ Pressurized Airlines____ Cylinders____

Ladders____ Scaffolds____ Unguarded Openings-Wall, Floor____

Liquids in Open Containers, Ponds, Lagoons____

ACTIONS TAKEN ON SITE:

Was Entry Made: YES____ NO____

Equipment Used: (circle) LEVEL A B (C) D Why: known contaminants

SCBA_____ APR_____ Model_____ Cart./Can. Type_____

Tyvek____ Poly Tyvek____ Saran Tyvek ✓ Acid Suit____

Rain Gear____ Cotton Coveralls____

Gloves: Inner___ Butyl___ Nitrile___ Viton___ Other___

Foot Gear: Safety Boots ✓ Outer Boots___ Booties ✓ Other___

Description of Decontamination Used: Disposable protective gear. Bag disposables. Wash hands with soap water

AR110150

AIR MONITORING Performed by: _____

Instrument Readings: Radiation Meter _____ CGI _____ None appropriate

OVA _____ HNU _____ Detector Tube _____

Other None open field short time assignment.

Summarize Air Monitoring Data N/A

SAMPLING Performed by: Jennifer Brown / Greg Janiec

Sampling Plan (Y or N) Y If yes attach copy to safety plan

No. of Samples: Solid 15 Liquid _____ Gas _____ Other _____

Laboratory: Resource Analysts, Inc.

Analyses: test for lead AA Direct Aspiration Method 7420

Sampling Comments: Highest five levels run for total method. Reference EPA Test Methods for Evaluating Solid Waste Publication SW-846 Section 7. All samples solid matrix. QA/QC: 1 duplicate, 1 matrix spike

DOCUMENTATION Performed by: Jennifer Brown / Greg Janiec

Type: Photo ✓ Log Book ✓ Peter Harnett Recorder _____ Video _____

PUBLIC IMPACT

Distance to Nearest : Residence _____ School 1/2 mile Hospital _____

Public Building 6 ft. Motel Other recreation field 40 ft.

ENVIRONMENTAL IMPACT:

Nearest Waterway: tributary to Susquehanna Distance: 1/4 mile

Nearest Navigable Waterway: Susquehanna Distance: _____

Condition	Observed	Potential	None
Surface Water Contamination		✓	
Ground Water Contamination			
Drinking Water Contamination			
Air Contamination		✓	
Soil Contamination	✓		
Stressed Vegetation	✓		
Dead Fish, Other Animals			

AR 100151

EMERGENCY INFORMATION

EMERGENCY PHONE NUMBERS:

	Location	Phone	Notified (Y/N)
Fire		911	N
Police		911	N
Ambulance		911	N
Hospital	St. Joseph's	717-291-8211	N
Nearest Phone	Am Plastics	717-299-7601	

DIRECTIONS TO HOSPITAL: South on Harrisburg Pike. (R) on College Ave. Located on corner of College Ave and Chestnut St.

ADDITIONAL EMERGENCY PHONE CONTACTS:

CHEMTREC	(800) 424-9300
TSCA HOTLINE	(800) 424-9065, (202) 554-1404
CDC	(404) 452-4100 (day), (404) 329-2888 (night)
BUREAU OF ALCOHOL, TOBACCO & FIREARMS	(800) 424-9555, (202) 566-7777
NATIONAL RESPONSE CENTER	(800) 424-8802
WESTON MEDICAL EMERGENCY SERVICE	(513) 421-3063 (24 hour)
WESTON 24 HOUR HOTLINE	(215) 524-1925, 1926
PESTICIDE INFORMATION SERVICE	(800) 845-7633
EPA ERT EMERGENCY	(201) 321-6660
RCRA HOTLINE	(800) 424-9346
BUR. OF EXPLOSIVES, A.A. RAILWAYS	(202) 835-9500

Prepared by: Jennifer Brown Date: 12/10/86

Reviewed by: B Buchanan Date: 12/10/86

Approved by: _____ Date: _____

SPER HSO Review by: _____ Date: _____

Followup Required: Yes ____ No ____

Followup Performed: Date: _____ With: _____

Comments: _____

AR100152

PERSONNEL INVOLVED: (NAME, AGENCY, PHONE, ON or OFF SITE)

SITE MANAGER: Jennifer Brown

SITE SAFETY COORDINATOR: Greg Janiec

			Have Read & Understood The Site Safety Plan (check)
EPA			
TAT	Jennifer Brown	TAT	✓
	Greg Janiec	TAT	✓
	Paul Haynett	TAT	✓
	Ryan Wilder	TAT	✓
STATE	Terry Rainar	PADER Bureau of Air Quality	✓
LOCAL			
OTHER			

AR100153

To: ERD/OERR (EPA5511)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Posted: Mon 22-Dec-86 8:23 EST Sys 63 (54)
Subject: LANCASTER BATTERY POLREP 1

POLREP 1
LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA
CERCLA PRELIMINARY ASSESSMENT
ATTN: TIM FIELDS AND TOM MASSEY

I. SITUATION (12/19/86 1500 HRS)

A. LANCASTER BATTERY IS A FORMER RECYCLER OF LEAD BATTERIES THAT WENT OUT OF BUSINESS IN JANUARY 1986. THE PROPERTY AND BUILDINGS ARE NOW OWNED BY AIN PLASTICS, INC.

B. PADER BUREAU OF SOLID WASTE AND PADER BUREAU OF AIR QUALITY HAS EXTENSIVE FILES AND SAMPLING DATA FORM THE MID 1970'S TO PRESENT. LEAD CONTAMINATION AND OFF-SITE MIGRATION VIA PAST AIR EMISSIONS HAS BEEN DOCUMENTED. VIOLATIONS WERE INDICATED BY BOTH BUREAUS.

C. ONSITE SOIL CONTAMINATION EVIDENT, DISTRESSED VEGETATION AND AREAS UNABLE TO SUPPORT ANY PLANT GROWTH.

D. PARKSIDE MOTEL SITUATED APPROXIMATELY 6-10 FEET TO THE EAST HAD SAMPLES COLLECTED BY PADER IN 1983 AND 1984 WHICH REVEALED LEAD LEVELS IN THE BREEZEWAY AT 24 PERCENT AND 32 PERCENT RESPECTIVELY. A FRESH AND FROZEN POULTRY DISTRIBUTION CENTER IS LOCATED ADJACENT TO THE FACILITY AND A LARGE ATHLETIC FIELD IS LOCATED TO THE SOUTH.

E. PERSONNEL ON SCENE 12/11/86:
EPA - 0
TAT - 3
PADER - 1

II. ACTIONS TAKEN

A. TAT PERFORMED A PRELIMINARY SITE ASSESSMENT, SAMPLING AND PHOTO-DOCUMENTATION ON 12/11/86. VERBAL ANALYTICAL RESULTS ARE EXPECTED ON 12/29/86.

B. ACCESS FOR ASSESSMENT AND SAMPLING GRANTED BY MR. RALPH MARTIN, AIN PLASTICS, INC PLANT MANAGER.

C. TAT MET WITH PADER AIR QUALITY (RAINAR) IN LANCASTER DIVISIONAL OFFICE TO OBTAIN BACKGROUND FILE DATA AND ACCOMPANIMENT TO THE SITE.

III. FUTURE PLANS

A. DATA PACKAGE TO BE SENT TO ASTDR FOR REVIEW AND COMMENT.

B. ACTION MEMORANDUM TO BE DRAFTED PENDING ANALYTICAL RESULTS.

KE ZICKLER, SENIOR OSC
REGION III
PHILADELPHIA, PA

AR100154

To: ERD/OERR (EPA5511)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Posted: Tue 10-Feb-87 12:53 EST Sys 63
Subject: LANCASTER BATTERY SITE POLREP 2

POLREP 2
LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA

ATTN: TIM FIELDS AND TOM MASSEY

I. SITUATION (2/6/86 1800 HRS)

A. OSC, TAT, PADER AIR QUALITY SPECIALIST TERRY RAINAR AND PA DEPT OF HEALTH PETER GEARHART INSPECT THE SITE, DETERMINE NEED FOR ADDITIONAL SAMPLES AND REVIEW LOGISTICS OF POTENTIAL REMOVAL ACTIVITIES.

B. OSC DISCUSSES EPA POSITION TO RALPH MARTIN, MANAGER OF AIN PLASTICS. AIN PLASTICS IS THE PRESENT OWNER OF THE BUILDINGS AND PROPERTY. AIN COOPERATIVE WITH EPA.

C. OSC MEETS WITH PAUL STEINMETZ, MANAGER OF BANNER FOODS CO., LOCATED ADJACENT TO THE SITE, TO EXPLAIN POTENTIAL SITE ACTIVITIES AND TO DETERMINE PROPERTY LINES.

D. TELECONFERENCE BETWEEN OSC AND KENT GRAY, ATSDR, TO DISCUSS FDA STANCE ON BANNER FOODS CO. AND THEIR CLOSE PROXIMITY TO THE SITE.

E. TELECONFERENCE WITH OSC, ATSDR (K. GRAY, C. WALTERS), PA DEPT OF HEALTH (DR. J. LOGUE, DR. K. SIVARAJAH, DR. J. FOX), PA SOUTH CENTRAL DISTRICT DEPT OF HEALTH (P. GEARHART, M. STANLEY). DISCUSSED POSSIBLE HEALTH EFFECTS OF EPA ACTIVITIES ONSITE AND WITH ADJOINING BUSINESSES.

F. OSC CONTACTED OSHA DISTRICT SUPERVISOR DAVE ROCHSECCA TO INFORM HIM OF POTENTIAL REMOVAL AND TO OBTAIN ADDITIONAL INFORMATION.

G. PERSONNEL ONSITE (2/6/87)
EPA- 1
TAT- 2
STATE- 2

II. ACTIONS TAKEN

A. PERMISSION OBTAINED FROM AIN PLASTICS MANAGER, BANNER FOODS MANAGER AND PARKSIDE MOTEL MANAGER FOR FUTURE SAMPLING NEEDS.

B. RAINAR COLLECTS THREE VACUUM CLEANER BAGS FROM PARKSIDE MOTEL. ONE USED IN CLEANING ROOMS, ONE USED IN CLEANING THE OFFICE, ONE NEW THAT RAINAR USED FOR COLLECTING A SAMPLE FROM THE OUTSIDE BREEZEWAY. SAMPLES TURNED OVER TO THE EPA FOR ANALYSIS.

C. FOUR ADDITIONAL SOIL SAMPLES TAKEN FROM THE SITE AND ADJOINING PROPERTIES. TWO WIPE SAMPLES AND ONE COMPOSITE DUST SAMPLE TAKEN FROM INSIDE THE STORAGE WAREHOUSE ONSITE.

AR100 15

D. TAT ASSISTS THE OSC BY PERFORMING SAMPLING, LOGBOOK DOCUMENTATION AND PHOTODOCUMENTATION.

E. ACTION MEMORANDUM IN CONCURRENCE, SUBMITTED THIS DATE.

III. FUTURE PLANS

A. AWAITING SAMPLE RESULTS.

B. CORE SAMPLING TO BE PERFORMED AS SOON AS GROUND THAWS.

C. AWAITING FUNDING REQUEST APPROVAL.

D. AWAITING ADDITIONAL CDC EVALUATION UPON RECEIPT OF SAMPLE RESULTS.

E. SAMPLE RESULTS TO BE FORWARDED TO STATE AND FEDERAL HEALTH OFFICIALS FOR REVIEW AND ADVISEMENT.

JACK L. DOWNIE, OSC
USEPA REGION III

AR100156

To: ERD/OERR (EPA5511)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Posted: Thu 12-Mar-87 11:03 EST Sys 63 (77)
Subject: LANCASTER BATTERY POLREP 3

POLREP 3
LANCASTER BATTERY SITE
CERCLA EMERGENCY REMOVAL
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (3/11/87 1600 HRS)

A. ACTION MEMORANDUM SIGNED BY REGIONAL ADMINISTRATOR ON 3/10/87.

B. OSC DELIVERED NOTICE TO THREE PRPs THIS DATE GIVING THEM UNTIL 3/17/87 TO AGREE TO TAKE OVER CLEANUP ACTIONS.

C. SITE REMAINS UNSECURED WITH EXTENSIVE SOIL CONTAMINATION, LEAD SLAG AND ACTIVELY USED CONTAMINATED STORAGE WAREHOUSE ONSITE.

D. OSC HELD TELECONFERENCE ON 3/6/87 WITH FEDERAL, STATE AND LOCAL HEALTH OFFICIALS. DISCUSSED RAMIFICATIONS OF SITE OPERATIONS IF FUNDED. DECISIONS INCLUDED UTILIZATION OF RAM FOR INSTANTANEOUS READINGS OF GROSS PARTICULATES DURING EXCAVATION TO ASSURE SAFETY OF WORKERS AND PUBLIC SAFETY.

II. ACTIONS TAKEN

A. OSC CONTACTED PADER SOLID WASTE DIVISION, GREG HARDER AND PADER AIR QUALITY DIVISION, TERRY RAINAR TO UPDATE AND ADVISE ON POSSIBLE START UP DATE OF REMOVAL ACTIONS. OSC REQUESTED THEIR AVAILABILITY DURING INITIAL REMOVAL ACTIONS DUE TO THEIR EXTENSIVE BACKGROUND KNOWLEDGE OF THE SITE.

B. OSC GAVE ERCS DELIVERY ORDER TO BEGIN MAKING PRELIMINARY ARRANGEMENTS IF PRP DOES NOT TAKE OVER.

C. OSC CONTACTED MANHEIM TOWNSHIP MANAGER TO ADVISE ON LOGISTICS OF SITE AND TO NOTIFY OF MEETINGS TO BE ARRANGED THROUGH OPA. REQUESTED THAT LOCAL POLICE AND FIRE OFFICIALS ALERTED OF EPA ACTIONS.

D. OSC PRE-ALERTED USCG/AST AND REQUESTED THEIR ASSISTANCE IN CONTRACTOR MONITORING, COST TRACKING AND SITE SAFETY.

E. OSC CONTACTED ERT FOR ADVICE AND GUIDANCE RELATING TO POTENTIAL REMOVAL ACTIONS.

II. FUTURE PLANS

A. EPA/OPA (SINCLAIR) TO GIVE PRESS RELEASE 3/12/87. PRESS CONFERENCE TENTATIVELY SCHEDULED FOR 3/18/87 TO BE HELD CONCURRENTLY WITH ONSITE CORE SAMPLING. PUBLIC MEETING TO BE HELD AT A LATER DATE IF WARRANTED.

B. START UP OF REMOVAL ACTIONS PROJECTED ON 3/18/87 PENDING PRPs DECISION.

C. MEETING SLATED FOR 3/17/87 AT 1400 HRS WITH OSC, OPA, TAT, TOWNSHIP MANAGER, AND SCHOOL OFFICIALS CONCERNING IMPACT OF EPA ACTIONS.

D. OSC AND EPA/OPA TO ALERT NEARBY AFFECTED BUSINESSES OF ANTICIPATED CLEANUP.

E. TELECONFERENCE TO BE HELD ON 3/13/87 WITH OSC, OPA, TAT, CDC/ATSDR, PA DEPARTMENT OF HEALTH AND LOCAL HEALTH OFFICIALS TO DISCUSS AIR MONITORING PROGRAM AND PUBLIC HEALTH NEEDS.

JACK L. DOWNIE
EPA REGION III
WHEELING, WEST VIRGINIA

AR100158

To: ERD/OERR (EPA5511)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Posted: Mon 16-Mar-87 16:54 EST Sys 63
Subject: LANCASTER BATTERY POLREP 4

POLREP 4
LANCASTER BATTERY SITE
CERCLA EMERGENCY REMOVAL
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (3/13/87 1800 HRS)

A. TELECONFERENCE HELD THIS DATE AT 1000 HRS WITH OSC, EPA/OPA (SINCLAIR), CDC/ATSDR (GRAY, WALTERS), PA DEPT OF HEALTH (SIVRAJAH, FOX, LOGUE, GEARHART, STANLEY) AND TAT (BROWN). DISCUSSED STATUS OF SITE AND STARTUP OF REMOVAL, AIR MONITORING PROGRAM DURING REMOVAL, ANALYTICAL OF LAST SAMPLING ROUND (2/6/87) AND MEETINGS ARRANGED THROUGH OPA. ATSDR TO CONTACT NIOSH FOR INVOLVEMENT DUE TO HIGH LEAD LEVELS AT MOTEL AND ONSITE WAREHOUSE, AS WELL AS, CLOSE PROXIMITY OF BANNER FOODS.

B. ANALYTICAL AND QA/QC RESULTS REQUESTED BY PA DEPT OF HEALTH. OSC WILL RELEASE COPY TO DR. SIVRAJAH.

C. MEDIA INTEREST HIGH. TV AND NEWSPAPER REPORTERS CALLING EPA/OPA IN ANTICIPATION OF EPA REMOVAL.

II. ACTIONS TAKEN

A. OSC CONTACTED AIN PLASTICS MANAGER (MARTIN) CONCERNING ONSITE ANALYTICAL RESULTS. ADVISED OF EXTREMELY ELEVATED LEAD LEVELS FOUND INSIDE THE STORAGE WAREHOUSE AND POSSIBLE EMPLOYEE EXPOSURE.

B. USCG/AST (LT. GAINES) CONTACTED OSC REGARDING UNAVAILABILITY OF ATLANTIC STRIKE TEAM FOR REMOVAL. WILL CHECK INTO AVAILABILITY OF GULF OR PACIFIC TEAMS.

C. PREPARATIONS CONTINUE FOR REMOVAL PENDING PRP'S DECISION TO ASSUME CLEANUP RESPONSIBILITIES.

III. FUTURE PLANS

A. OSC AND EPA/OPA TO HOLD MEETING ON 3/17/87 AT TOWNSHIP OFFICE WITH LANCASTER DAY SCHOOL AND FRANKLIN & MARSHALL COLLEGE OFFICIALS TO ADDRESS THEIR CONCERNS.

B. PRESS CONFERENCE SLATED FOR 3/18/87 TO BE HELD ONSITE. OSC, OPA AND ATSDR WILL BE AVAILABLE FOR COMMENT.

C. TAT TO PERFORM BACKGROUND/BASELINE AIR MONITORING AND SAMPLING ON 3/18/87.

AR1001

D. CORE SAMPLES TO BE TAKEN ONSITE 3/18/87 DURING PRESS CONFERENCE TO BE USED FOR EXTENT OF CONTAMINATION. VERBAL RESULTS ANTICIPATED ON 3/23/87 AT 0800 HRS.

E. ERCS TO MOBILIZE RESPONSE MANAGER, PCT, COMMAND POST AND DECON TRAILER 3/17/87 FOR PRELIMINARY PREPARATIONS.

F. ERCS CREW AND EQUIPMENT TO MOBILIZE ONSITE 3/23/87 TO BEGIN EXCAVATION.

JACK L. DOWNIE, OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

AR100160

EPAOHM PHA

WU INFOMASTER 4-0019069078-001 03/19/87
ICS IPMBNGZ CSP
7172992551 DGM TDBN LANCASTER PA 415 03-19 0647A EST
TWX 7106700716 EPAOHM PHA
EMERGENCY RESPONSE
4218 EPA PHA

ATTN TOM MASSEY AND TIM FIELDS

POLREP 5 LANCASTER BATTERY SITE CERCLA EMERGENCY REMOVAL
MANHEIM TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

I. SITUATION (3-18-87, 1800 HOURS)

A. OSC, EPA-OPA SINCLAIR, PENNSYLVANIA DEPARTMENT OF HEALTH-GEARHART, TAT AND ERCS RESPONSE MANAGER HOLD LOCAL OFFICIAL MEETING AT TOWNSHIP OFFICE ON 3-17-87. IN ATTENDANCE WERE TOWNSHIP OFFICIALS FRANKLIN AND MARSHALL COLLEGE REPRESENTATIVE AND LOCAL POLICE CHIEF. DISCUSSED STATUS OF SITE, ANALYTICAL DATA AND EPA PROPOSED ACTIONS FOR REMOVAL. TOWNSHIP AND COLLEGE OFFICIALS WERE FULLY COOPERATIVE WITH EPA NEEDS.

B. OSC, EPA-OPA SINCLAIR AND PENNSYLVANIA DEPARMENT OF HEALTH-GEARHART DISCUSSED WITH PARKSIDE MOTEL OWNER AND AIN PLASTICS MANAGER IMPENDING REMOVAL AND NIOSH BLOOD TESTS AVAILABLE FOR THEIR EMPLOYEES ON A VOLUNTARY BASIS. MANAGERS WILL MAKE AVAILABLE THE BLOOD TESTING TO THEIR EMPLOYEES. BOTH BUSINESSES ARE FULLY COOPERATIVE IN ASSISTING EPA TO EXPEDITE REMOVAL ACTIONS.

C. OSC FOLLOWED UP CONTACTING THE PRPS CONCERNING REMOVAL RESPONSIBILITIES. TWO (2) PRPS REPLIED BUT DO NOT FEEL OBLIGATED TO FINANCIALLY TAKE OVER CLEANUP OPERATIONS. THIRD PRP (MANNIX) DID NOT RESPOND AND IS NOT REACHABLE BY PHONE.

D. USCG/AST UNAVAILABLE TO ASSIST OSC. TAT IS TO ASSUME SITE SAFETY, CONTRACTOR MONITORING AND COST TRACKING DUTIES.

E. COST TO DATE:

EPA	1,500 DOLLARS
TAT	2,500 DOLLARS
ERCS	2,000 DOLLARS

F. NO COMPUTER IS PRESENTLY AVAILABLE TO ASSIST WITH SITE ACTIVITIES THIS COMING WEEK.

II. ACTIONS TAKEN:

A. TAT SECURED HISTORICAL AND RECENT AERIAL PHOTOGRAPHS. THE LAGOON IS NOT EVIDENT IN EITHER AERIAL PHOTOGRAPH. LANCASTER COUNTY PLANNING MMISSION IS ATTEMPTING TO LOCATE ADDITIONAL AERIAL PHOTOS. TAT IS TO TEMPT TO PINPOINT EXACT LOCATION OF BURIED LAGOON.

B. ERCS RESPONSE MANAGER BEGAN PREPARATION FOR MOBILIZATION OF CREW AND EQUIPMENT. HE TOURED SITE AND DETERMINED STAGING AREA, COMMAND POST AND DECONTAMINATION LOCATION.

C. TAT PERFORMED CORE AND ADDITIONAL SOIL SAMPLING IN APPROXIMATELY 10 DIFFERENT LOCATIONS. PHOTO DOCUMENTATION WAS ALSO PERFORMED.

D. TELEPHONE COMPANY WAS CONTACTED TO PUT IN TWO SEPARATE LINES AT COMMAND POST. ELECTRICITY WILL NEED TO BE PROVIDED BY USE OF GENERATOR ON SITE.

III. FUTURE PLANS:

A. AIR MONITORING AND BASELINE AIR MONITORING WILL BE PERFORMED BY TAT ON 3-19-87. APPROPRIATE CONTACTS WERE MADE THROUGH THE PENNSYLVANIA BUREAU OF AIR QUALITY CONTROL.

B. ERCS WILL BE MOBILIZING COMMAND POST AND DECONTAMINATION TRAILER TO BE ON SITE 3-18-87. REMOVAL PREPARATION WILL CONTINUE. EXCAVATION WILL BEGIN 3-23-87.

C. NIOSH BLOOD SAMPLING WILL TAKE PLACE ON 3-25-87.

D. VERBAL ANALYTICAL RESULTS FROM CORE AND SURFACE SOIL SAMPLES EXPECTED AT 0800 HOURS MONDAY 3-23-87.

JACK DOWNIE, OSC
PHILADELPHIA PA/WHEELING WV
U.S. EPA REGION 3

0655 EST
^
EPAOHM PHA

To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Posted: Tue 24-Mar-87 14:53 EST Sys 63
Subject: LANCASTER BATTERY POLREP 6

POLREP 6
LANCASTER BATTERY SITE
CERCLA EMERGENCY REMOVAL
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (3/23/87 1800 HRS)

A. REMOVAL OPERATIONS BEGAN THIS DATE WITH MOBILIZATION OF OSC, EPA FIELD ADMINISTRATIVE SPECIALIST, TAT AND ERCS CREW AND EQUIPMENT.

B. MEDIA INTEREST REMAINS HIGH. CHANNEL 8 REPORTER/CAMERAMAN ONSITE FOR FILM COVERAGE.

C. DUE TO SITE LOGISTICS, SITE SECURITY REMAINS DIFFICULT. EPA UNABLE TO TOTALLY RESTRICT VEHICLE ACTIVITY ON VERMONT AVE DUE TO TWO BUSINESSES RELYING ON THE ROAD ACCESS FOR THEIR CUSTOMERS. RECREATIONAL/ATHLETIC FIELD USED HEAVILY BY BASEBALL, LACROSSE AND SOCCER TEAMS ALL DAY. ERCS TO HIRE PRIVATE SECURITY GUARDS TO ASSIST IN RESTRICTING ACCESS.

D. COOPERATION OF PA BUREAU OF AIR QUALITY CONTROL HAS BEEN MOST VALUABLE IN THE IMPLEMENTATION OF A GOOD COMPREHENSIVE AIR MONITORING PROGRAM.

E. VERBAL ANALYTICAL RESULTS RECEIVED THIS DATE FROM SURFACE AND CORE SAMPLES TAKEN ON 3/18/87. DATA BENEFICIAL IN DELINEATING DEPTH FOR EXCAVATION AND HOT SPOTS.

F. THE AIR MONITORING PROGRAM IS COMPREHENSIVE IN NATURE. ONSITE, PERIMETER (ATHLETIC FIELD) AND BACKGROUND AMBIENT STATIONS ARE BEING USED FOR HIGH VOLUME SAMPLING AT FLOW RATES OF 1,200 - 1,500 LITERS/MINUTE (LPM). PERSONNEL AIR SAMPLING IS BEING PERFORMED WITH GILIAN PUMPS AT FLOW RATES OF 2 LPM. BOTH AREA AND PERSONNEL SAMPLES ARE BEING ANALYZED FOR LEAD AND TOTAL SUSPENDED PARTICULATE LEVELS. THE MINI-RAM IS BEING USED TO COMPLIMENT THESE TECHNIQUES AND TO PROVIDE IMMEDIATE MEASUREMENTS OF TOTAL SUSPENDED PARTICULATE LEVELS. THIS INFORMATION ASSISTS THE OSC IN DETERMINATION OF APPROPRIATE DUST CONTROL MEASURES DURING REMOVAL ACTIVITIES.

G. WEATHER - SUNNY, HIGH IN LOW 60'S, WINDS 10-15 MPH.

H. PERSONNEL ON SCENE:
ERCS - 10
EPA - 2
TAT - 3

AR10016

I. ESTIMATED COSTS TO DATE

		CEILING
ERCS -	$17.5K	$451K
EPA -	2.3K	10K
TAT -	8.8K	51K

II. ACTIONS TAKEN

A. ERCS BEGIN PREPARATION OF STAGING AREA AND EXCAVATION.

B. TAT PERFORMING CONTRACTOR MONITORING, SOIL SAMPLING, AIR MONITORING, COST TRACKING, PHOTODOCUMENTATION, SITE SAFETY AND OTHER DUTIES AS ASSIGNED.

C. FIELD ADMINISTRATIVE SPECIALIST ONSITE TO ASSIST OSC WITH EPA ADMINISTRATIVE DUTIES INHERENT TO START-UP ACTIVITIES.

D. DUST CONTROL MEASURES IMPLEMENTED THROUGH HOSING DOWN SOIL WITH WATER. EXTREMELY DRY WEATHER HAS CREATED EXESSIVE DUST PROBLEMS AT THIS TIME. RAIN PREDICTED LATER THIS WEEK.

E. FRANKLIN AND MARSHALL REPRESENTATIVES ONSITE. REQUESTED BLOOD SAMPLES TAKEN FROM TWO OF THEIR GROUNDSKEEPERS.

III. FUTURE PLANS

A. NIOSH SLATED FOR BLOOD TESTING OF IMPACTED EMPLOYEES IN ADJACENT BUSINESSES ON 3/25/87.

B. BASELINE/BACKGROUND AIR SAMPLE RESULTS ANTICIPATED ON 3/24/87. ANALYSIS INCLUDED LEAD CONTENT AND GRAVIMETRIC DUST.

C. DISPOSAL ALTERNATIVES TO BE SELECTED AND A REPRESENTATIVE SAMPLE TO BE SENT FOR APPROVAL BY THE FACILITY.

JACK L. DOWNIE, OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

AR100164

To: ERD/OERR (EPA5511)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Posted: Wed 25-Mar-87 9:27 EST Sys 63 (103)
Subject: LANCASTER BATTERY POLREP 7

POLREP 7
LANCASTER BATTERY SITE
CERCLA EMERGENCY REMOVAL
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (3/24/87 1900 HRS)

A. NIOSH EPIDEMIOLOGIST (ANDERSON) ONSITE TO TAKE BLOOD SAMPLES OF PARKSIDE MOTEL, FRANKLIN & MARSHALL COLLEGE AND AIN PLASTICS EMPLOYEES TO DETERMINE PUBLIC HEALTH EFFECTS FROM PREVIOUS BATTERY OPERATIONS. PA DEPT OF HEALTH REPRESENTATIVE (GEARHART) ONSITE TO ASSIST NIOSH WITH THEIR STUDY.

B. SITE SECURITY PROBLEMS ALLEVIATED BY THE USE OF PRIVATE SECURITY GUARDS CONTROLLING TRAFFIC ON VERMONT AVE AND ADDITIONAL ROPING OF AREA WITH BANNER GUARD TO CONTROL ACCESS.

C. BASELINE/BACKGROUND AIR SAMPLE RESULTS FROM SAMPLES TAKEN IN THE 24-HOUR PERIOD FROM 3/19/87 DO CLEARLY INDICATE THAT PARTICULATE LEAD DOES MIGRATE DOWNWIND FROM THE POINT SOURCE (LANCASTER BATTERY SITE). LEAD LEVELS WERE AT LEAST ONE ORDER OF MAGNITUDE GREATER THAN THAT EXPECTED FOR AMBIENT LEAD LEVELS FOR THIS PART OF LANCASTER, PA.

D. PENNSYLVANIA DEPT OF ENVIRONMENTAL RESOURCES (PADER), SOLID WASTE SPECIALIST ZIMMERMAN ONSITE FOR UPDATE ON SITE ACTIVITIES. PADER (HARDER) EXPECTED ONSITE TOMORROW (3/25/87) TO ASSIST OSC WITH LOCATING BURIED LAGOON AND SULFURIC ACID TANK.

E. BURIED TANK UNCOVERED DURING EXCAVATION OF SOIL. SAMPLE TAKEN OF BOTTOM SLUDGE REMAINS FOR ANALYSIS. UNKNOWN AT THIS TIME IF IT IS THE REMAINS OF THE BURIED SULFURIC ACID TANK OR A SLUDGE TANK.

F. LOCAL CITIZEN ONSITE REQUESTING INFORMATION REGARDING CHILDREN'S EXPOSURE TO LEAD LEVELS. CONCERNED DUE TO THE FACT THAT THEY FREQUENTLY PLAYED ON AND NEAR THE SITE. OSC ADVISED CITIZEN TO CONTACT PA STATE HEALTH DEPT FOR ANY FURTHER HEALTH EFFECTS INFORMATION.

F. WEATHER- SUNNY, HIGH IN MID 60'S, WINDS 10-15 MPH

AR100161

G. PERSONNEL ON SCENE:

ERCS- 9
EPA- 2
NIOSH- 1
TAT- 3
STATE- 2

H. ESTIMATED COSTS TO DATE

		CEILING
ERCS-	$25.2	$451K
EPA-	2.8	10K
TAT-	10.6	51K

II. ACTIONS TAKEN

A. ERCS CONTINUED EXCAVATION AND STAGING OF CONTAMINATED SOIL WITH AN ESTIMATED 250 YARDS STAGED TO DATE. ERCS CONTINUE TO CLEAR EDGE OF SITE OF TREES AND DEBRIS FOR IMPENDING EXCAVATION.

B. ERCS UNCOVERED A STEEL PIPE 1 1/2 INCH IN DIAMETER THAT IS TYPICAL OF A GAS LINE. GAS COMPANY REPRESENTATIVE DRILLED A HOLE THROUGH THE LINE AND DETERMINED THAT IT WAS "DEAD". APPROXIMATELY 90 FEET OF THE LINE WAS EXCAVATED TO FACILITATE EXCAVATION OF CONTAMINATED AREA.

C. ERCS BEGAN GATHERING ESTIMATES FOR SITE RESTORATION.

D. TAT CONTINUED SITE SAFETY, CONTRACTOR MONITORING, SOIL AND AIR SAMPLING STRATEGIES AND PHOTODOCUMENTATION.

E. EPA FIELD ADMINISTRATIVE SPECIALIST (McGOWAN) CONTINUED TO ASSIST THE OSC WITH COST TRACKING AND SITE FILE UPDATES.

III. FUTURE PLANS

A. EPA/OPA (SINCLAIR) TO BE ONSITE 3/25/87 TO HANDLE LOCAL PRESS AND OTHER PUBLIC AFFAIRS ISSUES RELATING TO THE NIOSH BLOOD SAMPLING AND THE COLLEGE STUDENT BODY RETURNING FROM SPRING BREAK.

B. NIOSH TO COMMUNICATE BLOOD SAMPLE RESULTS TO THE OSC. THIS INFORMANTION IS TO BE USED IN THE DETERMINATION OF THE NECESSITY OF CLEAN-UP IN THE MOTEL AND AIN PLASTICS BUILDINGS.

C. OSC AWAITING ANALYTICAL RESULTS OF THE SLUDGE SAMPLE FOR FUTURE DISPOSAL ALTERNATIVES.

JACK L. DOWNIE, OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

AR100166

To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Posted: Thu 26-Mar-87 10:41 EST Sys
Subject: LANCASTER BATTERY DRAFT POLREP 8

POLREP 8
LANCASTER BATTERY SITE
CERCLA EMERGENCY REMOVAL
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (3/25/87 1900 HRS)

A. AIN PLASTICS EMPLOYEE ONSITE TO INFORM THE OSC OF THE PRESENCE OF BURIED PITS LOCATED INSIDE THE STORAGE WAREHOUSE. OSC, TAT AND ERCS RESPONSE MANAGER INVESTIGATED THE PITS AND FOUND THEM TO CONTAIN SEVERAL INCHES OF SLUDGE AND LIQUID. SAMPLES ARE TO BE TAKEN FOR ANALYSIS.

B. PADER SOLID WASTE SPECIALIST (HARDER) AND PADER AIR QUALITY SPECIALIST (RAINAR) ONSITE TO ASSIST THE OSC WITH BACKGROUND INFORMATION IN LOCATING THE BURIED LAGOON AND BURIED SULFURIC ACID TANK. UNABLE TO EXACTLY PINPOINT THE FORMER LOCATION OF THE LAGOON THROUGH HISTORICAL AERIAL PHOTOGRAPHS OR PAST REPORTS. AIN PLASTICS MANAGER (MARTIN) REPORTED THAT THE BURIED SULFURIC TANK WAS REMOVED BEFORE THE TITLE WAS CHANGED AND DISPOSED OF BY THE FORMER OWNER.

C. EPA/OPA (SINCLAIR) ONSITE THIS DATE. INFORMED THE MEDIA OF PRESS AVAILABILITY.

D. FRANKLIN & MARSHALL OFFICIAL (HERSHEY) ONSITE TO REQUEST WRITTEN CONFIRMATION FROM THE EPA THAT THEIR ATHLETIC FIELD IS NOT A HEALTH THREAT TO THE STUDENTS. ADDITIONAL COMPOSITE SOIL SAMPLE TAKEN THIS DATE FOR ANALYSIS. OSC WILL COMMUNICATE THE DATA TO ATSDR/CDC FOR THEIR ADVISEMENT AS TO THE STATUS OF THE FIELD.

E. OSC, EPA FIELD ADMINISTRATIVE SPECIALIST AND MAJORITY OF TECHNICAL ASSISTANCE TEAM MEMBERS ORDERED TO DEMOBE FROM THE SITE TO ATTEND THE MONTHLY REGIONAL SAFETY MEETING AS REQUIRED BY THE EMERGENCY RESPONSE SECTION CHIEF MASSEY. NONCRITICAL SITE OPERATIONS WILL CONTINUE.

F. PERSONNEL ONSCENE:
EPA- 3
TAT- 4
ERCS- 10
PADER- 2

G. WEATHER- HIGH IN THE MID 50'S, OVERCAST, WINDS 15 MPH, RAIN IN PM

AR100167

H. ESTIMATED COSTS TO DATE

		CEILING
ERCS-	$32.3K	$451K
EPA-	3.7K	10K
TAT-	13.0K	51K

II. ACTIONS TAKEN

A. EXCAVATION ACTIVITIES CONTINUED WITH AN ESTIMATED 525 YARDS OF CONTAMINATED SOIL STAGED TO DATE.

B. TAT SAMPLED EXCAVATED AREAS FOR ANALYSIS TO DETERMINE IF FURTHER EXCAVATION IS WARRANTED.

C. OSC AND TAT ASSESSED THE INTERIOR OF THE PITS AND INVOLVED PIPING IN AND AROUND THE STORAGE WAREHOUSE AND DETERMINED THE AMOUNT OF SAMPLES NEEDED.

D. ARRANGEMENTS WERE MADE WITH BURNHAM TEXTILE INDUSTRIES TO CONTINUE BACKGROUND AIR MONITORING AND SAMPLING AT THE STATION LOCATED ON THEIR PROPERTY THROUGH THE WEEKEND AS NEEDED.

III. FUTURE PLANS

A. ERCS TO ADDRESS THE GROSS CONTAMINATION FOUND INSIDE THE STORAGE WAREHOUSE ON 3/26/87. ACTIONS WILL INCLUDE DUSTING THE STORED SUPPLIES AND SWEEPING THE WALLS AND FLOOR.

B. EPA/OPA (SINCLAIR) WILL BE ONSITE 3/26/87 FOR PRESS AVAILABILITY.

C. ADDITIONAL EXCAVATION TO BE ADDRESSED AS NEEDED UPON RECEIPT OF THE ANALYTICAL DATA TAKEN FROM THE EXCAVATED AREAS.

JACK L. DOWNIE, OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

AR100168

To: ERD/OERR (EPA5511)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Posted: Fri 27-Mar-87 13:37 EST
Sys 63 (77)
Subject: LANCASTER BATTERY POLREP 9

POLREP 9
LANCASTER BATTERY SITE
CERCLA EMERGENCY RESPONSE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (3/26/87 1900 HRS)

A. OSC WAS OFF SITE THIS DATE FOR EIGHT HOURS DUE TO PRIOR REGIONAL COMMITMENTS.

B. EPA/OPA (SINCLAIR) ONSITE TO ADDRESS MEDIA ISSUES. NEWS MEDIA COVERAGE BY CHANNEL 15, LOCAL NEWSPAPERS AND RADIO STATIONS.

C. EPA P. YOUNIS ONSITE TO ASSIST THE OSC WITH STRUCTURAL ENGINEERING PROBLEMS RELATING TO VERMONT AVE AND THE EXISTING FOUNDATIONS OF THE BUILDINGS AND EXCAVATION ACTIVITIES.

D. PERSONNEL ONSCENE:
EPA- 3
TAT- 2
ERCS- 10

E. ESTIMATED COSTS TO DATE CEILING

ERCS-	$39.5K	$451K
EPA-	4.2K	10K
TAT-	14.2K	51K

F. WEATHER- SUNNY, HIGHS IN THE 50'S, WINDS 5-10 MPH

II. ACTIONS TAKEN

A. ERCS CONTINUED EXCAVATION OF CONTAMINATED SOIL WITH AN ESTIMATED 800 CUBIC YARDS STAGED TO DATE. DURING EXCAVATION OF THE BATTERY BREAKING AREA, TWO ELECTRIC CABLES AND A CONTROL LINE USED FOR PRIOR OPERATIONS WERE EXPOSED AND SEVERED. POWER WAS LOST IN THE STORAGE WAREHOUSE BUILDING RESULTING IN THE SHUTDOWN OF THE ONSITE HIGH VOLUME AIR SAMPLER. ELECTRICIAN WAS CONTACTED AND WILL RESPOND.

B. TAT CONTINUED TO PROVIDE AIR MONITORING/SAMPLING DURING EXCAVATION PROCEDURES, SOIL SAMPLING NEEDS, SITE SAFETY, CONTRACTOR MONITORING, COST TRACKING, AND PHOTODOCUMENTATION.

AR100169

C. ERCS ADDRESSED THE GROSS CONTAMINATION INSIDE THE STORAGE WAREHOUSE BY SWEEPING THE WALLS AND FLOOR. IN MOVING THE STORED SUPPLIES AROUND DURING CLEANING, A THIRD PIT WAS FOUND.

D. TAT INVESTIGATED THE INTERIOR OF THE PIT. IT WAS FOUND TO CONTAIN SEVERAL INCHES OF LIQUID.

III. FUTURE PLANS

A. DUE TO NEARING OF PHASE I PROJECT COMPLETION, ERCS TO DEMOBE 2 RESPONSE TECHNICIANS AND ONE EQUIPMENT OPERATOR ON 3/27/87.

B. ERCS TO CONTINUE EXCAVATION OF THE PARKING AREA ADJACENT TO THE ATHLETIC FIELD AND BETWEEN AIN BUILDINGS AND VERMONT AVE.

C. OSC AND TAT TO ASSESS EXCAVATED AREA TO DETERMINE THE DISPOSITION OF THE SITE PRIOR TO SITE RESTORATION.

D. ELECTRICIAN TO BE ONSCENE 3/27/87 TO REPAIR SEVERED WIRES.

JACK L. DOWNIE, OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

AR100017

POLREP 10
LANCASTER BATTERY SITE
CERCLA EMERGENCY REMOVAL
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (3/27/87 1900 HRS)

A. THREE ERCS PERSONNEL DEMOBED THIS DATE DUE TO PHASE 1 OF THE PROJECT NEARING COMPLETION.

B. PA ATTORNEY GENERAL ONSCENE TO REQUEST THE OSC'S TECHNICAL EXPERTISE AT A BRIEFING PRIOR TO AN UPCOMING HEARING SLATED FOR APRIL 15, 1987.

C. PERSONNEL ONSCENE:
ERCS- 10
EPA- 2
TAT- 2
STATE- 1

D. ESTIMATED COSTS TO DATE

		CEILING
ERCS-	$45.2K	$451K
EPA-	4.8K	10K
TAT-	15.2K	51K

E. WEATHER- OVERCAST, BRIEF PERIODS OF INTERMITTENT RAIN, HIGH IN THE MID 60'S.

II. ACTIONS TAKEN

A. ELECTRICIAN ONSITE AND REPAIRED SEVERED ELECTRIC CABLES.

B. ERCS COMPLETED PHASE 1 EXCAVATION ACTIVITIES.

C. TAT CONTINUED AIR MONITORING PROGRAM UTILIZING THE HIGH VOLUME SAMPLERS.

D. EPA P. YOUNIS ASSISTED THE OSC IN ADDRESSING RESTORATION OF ROADWAYS AND NEAR BUILDING FOUNDATIONS.

E. VERBAL RESULTS FROM SOIL SAMPLES TAKEN ON 3/26/87 WERE RECEIVED FROM LANCASTER LABORATORY.

III. FUTURE PLANS

A. ADDITIONAL SOIL SAMPLES TO BE TAKEN ONSITE, THE PERIMETER OF THE SITE AND FROM THE ATHLETIC FIELD. ANALYTICAL DATA TO BE REVIEWED FOR RECOMMENDATION AND ADVISEMENT BY CDC/ATSDR AND EPA'S REMEDIAL DIVISION.

B. PRELIMINARY SITE RESTORATION ACTIVITIES TO COMMENCE ON 3/28/87.

ARP00171

C. PHASE 1 AIR MONITORING/SAMPLING TO BE COMPLETE ON 3/28/87 WITH FINAL VERBAL ANALYTICAL DATA EXPECTED BY 3/31/87.

D. DECONTAMINATION OF EQUIPMENT AND SUBSEQUENT DEMOBILIZATION OF ERCS CREW AND EQUIPMENT TO COMMENCE 3/28/87.

JACK L. DOWNIE, OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

AR10017

POLREP 11
LANCASTER BATTERY SITE
CERCLA EMERGENCY REMOVAL
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (3/28/87 1700 HRS)

A. PHASE 1 EXCAVATION ACTIVITIES COMPLETED, AND ONSITE RESTORATION COMMENCES.

B. PERSONNEL ONSCENE:
ERCS- 6
EPA- 2
TAT- 2

C.

ESTIMATED COSTS TO DATE		CEILING
ERCS-	$61.1K	$451K
EPA-	5.2K	10K
TAT-	16.4K	51K

D. WEATHER- OVERCAST IN AM, SUNNY IN PM, HIGH IN UPPER 60'S.

II. ACTIONS TAKEN

A. ERCS DECONTAMINATED EQUIPMENT NOT USED FOR SITE RESTORATION.

B. ERCS COMMENCES HAULING 3-GUAGE AND 2A-GUAGE STONE FOR RESTORATION ALONG VERMONT AVE. ONE LOAD OF SAND DELIVERED FOR COVER AND DEMARCATION OF ELECTRICAL LINES IN THE BATTERY BREAKING AREA.

C. TAT DISASSEMBLES AIR MONITORING STATIONS TO BE RETURNED TO PADER AIR QUALITY BUREAU IN HARRISBURG ON MONDAY 3/30/87.

D. OSC AND TAT DEMOBED THIS DATE.

III. FUTURE PLANS

A. PHASE 1 RESTORATION ACTIVITIES TO BE COMPLETED ON 3/30/87.

B. ERCS PERSONNEL AND EQUIPMENT TO DEMOBE 3/29/87. ONE PCT TO REMAIN TO OVERSEE FINAL RESTORATION AND SUBSEQUENTLY DEMOBE AT C.O.B. 3/30/87.

C. TAT TO BE ONSITE ON 3/30/87 TO RETURN AIR MONITORING STATIONS AND ASSIST IN MONITORING OF RESTORATION ACTIVITIES.

AR100173

D. OSC, TAT AND ERCS TO MOBILIZE FOR PHASE 2 ACTIVITIES

INVOLVING TRANSPORTATION AND DISPOSAL UPON RECEIPT OF DISPOSAL APPROVAL.

JACK L. DOWNIE, OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

AR1001

POLREP 12
LANCASTER BATTERY SITE
CERCLA EMERGENCY REMOVAL
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (4/1/87 1000 HRS)

A. SITE REMOVAL OPERATIONS SUSPENDED UNTIL DISPOSAL APPROVAL IS GRANTED. EPA COMMAND POST AND SITE SECURITY REMAIN ONSITE AT THIS TIME. STAGED MATERIAL SECURED WITH VISQUEEN AND CANVAS TARP COVERS WITH EROSION CONTROL MEASURES IMPLEMENTED.

B. OSC RECEIVED CORRESPONDANCE THIS DATE FROM PRP'S (S. MANNIX) LAWYER CONCERNING LEGAL QUESTIONS ARISING FROM EPA REMOVAL ACTIVITIES. OSC FORWARDED COPY VIA EXPRESS DELIVERY TO EPA REGIONAL COUNSEL REPRESENTATIVE LIDIA ISALES FOR REVIEW AND RESPONSE.

C. OSC CONFERRED WITH C. WALTERS, CDC/ATSDR REGARDING QUESTIONS POSED BY FRANKLIN & MARSHALL COLLEGE OFFICIALS. CDC/ATSDR TO RECEIVE ANALYTICAL RESULTS FROM ADDITIONAL SAMPLES TAKEN ON THE ATHLETIC FIELD BEFORE MAKING OFFICIAL COMMENT.

II. ACTIONS TAKEN

A. EPA COST MANAGEMENT PROGRAM IMPLEMENTED FOR PAST AND FUTURE COST TRACKING MECHANISM.

III. FUTURE PLANS

A. OSC AWAITING ANALYTICAL RESULTS FROM SOIL AND AIR SAMPLES TAKEN ON 3/28/87.

B. TELECONFERENCE TO BE HELD IN THE NEAR FUTURE WITH OSC, CDC/ATSDR AND PA DEPT OF HEALTH TO ADDRESS FRANKLIN & MARSHALL CONCERNS. CONFERENCE WILL DISCUSS ANY HEALTH EFFECTS RESULTING FROM STUDENTS UTILIZING THE ATHLETIC FIELD ADJACENT TO THE SITE.

C. OSC TO MOBILIZE ERCS AND TAT UPON RECEIPT OF DISPOSAL AUTHORIZATION.

JACK L. DOWNIE, OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

POLREP 13
LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (5/5/87 1600 HRS)

A. OSC RECEIVED PRELIMINARY RESULTS FROM NIOSH EPIDEMIOLOGIST, K. ANDERSON REGARDING BLOOD SAMPLES TAKEN FROM PARKSIDE MOTEL AND AIN PLASTICS EMPLOYEES. ALL BLOOD LEAD LEVELS WITHIN EXCEPTED NORMS. FORMAL REPORT WILL FOLLOW.

B. OSC SENT COMPLETED CERTIFICATION OF REPRESENTATIVE SAMPLE FORMS TO GSX WASTE FACILITY ON 4/27/87 AS NEEDED TO FACILITATE PAPERWORK REQUIREMENTS BY THE FACILITY.

II. ACTIONS TAKEN

A. OSC CONTACTED L. MARTIN OF THE STATE OF SOUTH CAROLINA REGARDING WAIVERING THEIR 15 DAY STATE REVIEW REQUIREMENT. OSC ATTEMPTING TO EXPEDITE DISPOSAL ACTIVITIES.

III. FUTURE PLANS

A. UPON RECEIPT OF FORMAL NIOSH REPORT, OSC WILL FORWARD THE RESULTS TO PARKSIDE MOTEL AND AIN PLASTICS OWNERS/MANAGEMENT TO BE POSTED AT THEIR BUSINESSES FOR 30 DAYS IN ORDER TO COMPLY WITH OSHA REGULATIONS.

B. OSC TO MOBILIZE ERCS AND TAT UPON RECEIPT OF DISPOSAL AUTHORIZATION.

JACK L. DOWNIE, OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

II RECV CONNECTED 13-May-87 10:41 41

EPAOHM PHA

WU INFOMASTER 4-005994S133-001 05/13/87
ICS IPMMTZZ CSP
7172992551 DGM TDMT LANCASTER PA 379 05-13 0941A EST
TWX 7106700716 EPAOHM PHA
EMERGENCY RESPONSE
4218 EPA PHA

POLREP 14 LANCASTER BATTERY SITE MANHEIM TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA. CERCLA EMERGENCY REMOVAL. ATTENTION: TOM MASSEY AND TIM FIELDS.
I. SITUTATION (5/12/87 1600 HOURS)
A. DISPOSAL AUTORIZATION GRANTED BY THREE FACILITIES. CHEM-WASTE MANAGEMENT IN EMILLE, ALABAMA-$100.00 PER TON, 1000 MILES. CHEM-WASTE MANAGEMENT IN FT WAYNE INDIANA-$114.50 PER TON, 538 MILES. GSX SERVICES IN PINEWOOD SOUTH CAROLINA-$118.00 PER TON, 560 MILES. OSC DECIDED THAT CHEM-WASTE IN FT WAYNE WOULD BE THE MOST ECONOMICALLY FEASIBLE LOCATION FOR DISPOSAL TO START. THEY WILL ACCEPT 10 TRUCKS PER DAY, 5 DAYS A WEEK. GSX FACILITY MAY ALSO BE USED IN THE FUTURE AS NEEDED.
B. OSC MOBILIZED ERCS AND TAT ON 5/11/87 WITH TRANSPORTATION AND DISPOSAL ACTIVITIES BEGINNING 0700 HOURS ON 5/12/87.
C. OSC NOTIFIED STATE HEALTH DEPARTMENT, TOWNSHIP MANAGER, AND FRANKLIN MARSHALL COLLEGE ON 5/8/87 OF PENDING ACTIVIES.
EPA/OPA NANCI SINCLAIR ON SITE TO COORDINATE PRESS CONFERENCE SCHEDULED THIS DATE. CONTACTS MADE THIS MORNING FOR CONFERENCE HELD THIS AFTERNOON. MEDIA INTEREST HIGH.
E. OSC RECEIVED NIOSH HEALTH HAZZARD EVALUATION REPORT FROM K. ANDERSON THIS DATE. OF THE 16 EMPLOYEES OF AIN PLASTICS, PARKSIDE MOTEL AND FRANKLIN AND MARSHALL COLLEGE, ALL RESULTS RECEIVED ARE WITHIN ACCEPTED NORMS.
F. OSC CLOSELY MONITORING THE REMAINING AMOUNT OF SOIL TO BE REMOVED IN ORDER TO KEEP WITHIN THE CLOSE CONSTRAINTS OF THE BUDGET.
G. P GEARHART, PA DEPARTMENT OF HEALTH ON SITE TO ASSIST EPA/OPA SINCLAIR WITH HEALTH RELATED ISSUES RAISED BY THE PRESS.
H. PERSONNEL ON SCENE: EPA-2, TAT-2, ERCS-6, STATE -1.
I. COSTS TO DATE: EPA-6.2K, TAT-19.0K, ERCS-115.9K.
II. ACTIONS TAKEN
A. BANNER GUARD ERECTED AROUND THE SITE TO RESTRICT PUBLIC ACCESS DURING LOADING OF THE HAZARDOUS WASTE HAULING TRUCKS.
B. TEN 40 FORTY-YARD CAPACITY TRUCKS LOADED AND ENROUTE TO THE DISPOSAL FACILITY THIS DATE. APPROXIMATELY 210 TONS OF CONTAMINATED SOIL TRANSPORTED TO DATE.
C. E P A/O P A SINCLAIR BRIEF PRESS ON SITE ACTIVITIES.
D. TAT PROVIDING COST TRACKING, SITE SAFETY, SITE DOCUMENTATION AND TECHNICAL ASSISTANCE.
III. FUTURE PLANS
A. OSC AND ERCS RESPONSE MANAGER DETERMINED THAT MORE THAN 10 HAULERS COULD BE LOADED AND TRANSPORTED EACH DAY. OSC DIRECTED ERCS TO ARRANGE FOR TEN ADDITIONAL TRUCKS FOR TOMORROW WITH DIESEL OIL TO BE SENT TO GSX, PINEWOOD SOUTH CAROLINA.
ERCS TO CONTINUE LOADING AND TRANSPORTING THE STAGED CONTAMINATED OIL.
SIGNED:JACK L DOWNIE, OSC
USEPA REGION III

AR100177

To: ERD/OERR (EPA5511)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Delivered: Wed 13-May-87 18:13 EDT Sys 163 (7
Subject: LANCASTER BATTERY SITE POLREP 15
Mail Id: IPM-163-870513-163260285

POLREP 15
LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA
CERCLA EMERGENCY REMOVAL

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (5/13/87 1600 HRS)

A. OSC CONSULTED P. GEARHART OF PA DEPARTMENT OF HEALTH REGARDING THE HIGH LEAD LEVELS FOUND IN THE VACUUM SAMPLE COLLECTED IN THE OFFICE AT THE PARKSIDE MOTEL ON 2/6/87. GEARHART DETERMINED THAT THE CARPET DOES NOT NEED TO BE REPLACED AT THIS TIME. THIS DETERMINATION IS BASED ON THE NIOSH REPORT THAT THERE HAS BEEN NO SIGNIFICANT LEAD EXPOSURE TO THE EMPLOYEES OF THE PARKSIDE MOTEL. UPON CONSULTING DR. SIVARAJAH, PA DEPT OF HEALTH TOXICOLOGIST, HE RECOMMENDED RESAMPLING THE MOTEL OFFICE. OSC WILL RESAMPLE AND BASE HIS DECISION UPON THE NEW ANALYTICAL RESULTS AND PA DEPT OF HEALTH AND ATSDR/CDC RECOMMENDATIONS.

B. ERCS HAVING DIFFICULTY WITH HAZARDOUS WASTE HAULING SUBCONTRACTORS. NUMBER OF TRUCKS SENT TO THE SITE NOT CONSISTENT WITH NUMBER OF TRUCKS REQUESTED. ERCS RESPONSE MANAGER CONTACTING ALTERNATE TRUCKING COMPANIES IN THE EVENT THAT THE SUBCONTRACTING FIRM PROVES THE NEED TO BE REPLACED AND TO FACILITATE COST EFFECTIVE MEASURES.

C. CURRENT ESTIMATES OF THE BUDGET SHOULD BE SUFFICIENT TO COMPLETE OPERATIONS. HOWEVER, DUE TO THE UNCERTAINITY OF ESTIMATING THE TONNAGE OF THE STOCKPILE, CONTINGENCY PLANS ARE BEING FORMULATED IN THE FORM OF A DRAFT ADDITIONAL FUNDING REQUEST.

D. WEATHER- SUNNY, WINDY, HIGHS IN THE 60'S

E. PERSONNEL ONSCENE
EPA - 2
TAT - 2
ERCS- 6

F.

ESTIMATED COSTS TO DATE	CEILING
EPA - $ 7.0K	$10K
TAT - 19.6K	51K
ERCS- 120.0K	451K

AR100178

ACTIONS TAKEN

A. ERCS CONTINUED TRANSPORTATION AND DISPOSAL OF STAGED CONTAMINATED SOIL. ARRANGEMENTS WERE MADE TO GET ADDITIONAL HAULERS ONSITE. THESE ADDITIONAL TRUCKS WILL TRANSPORT THE CONTAMINATED SOIL TO GSX SERVICES IN PINEWOOD S.C. SINCE CHEM-WASTE MANAGEMENT IN FORT WAYNE, INDIANA WILL ONLY ACCEPT 10 TRUCKS PER DAY.

B. ELEVEN (11) TRUCKS LOADED AND ENROUTE TO THEIR RESPECTIVE DISPOSAL FACILITIES THIS DATE. A TOTAL OF 414 TONS OF CONTAMINATED SOIL HAS BEEN TRANSPORTED TO CHEM-WASTE AND A TOTAL OF 21.8 TONS HAS BEEN TRANSPORTED TO GSX.

C. TAT CONTINUED AIR MONITORING PROGRAM UTILIZING GILIAN PUMPS. SAMPLES TO BE ANALYZED BY LANCASTER LABS.

III. FUTURE PLANS

A. ADDITIONAL FUNDING REQUEST TO BE DRAFTED AS A CONTINGENCY MEASURE IN THE EVENT THE TONNAGE OF THE STOCKPILE EXCEEDS CURRENT ESTIMATES.

B. ERCS TO CONTINUE TO TRANSPORT AND DISPOSE OF THE STAGED CONTAMINATED SOIL.

JACK L. DUNNIE, OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

AR100179

To: ERD/OERR (EPA5511)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Delivered: Fri 15-May-87 9:14 EDT Sys 163 (67.
Subject: LANCASTER BATTERY SITE POLREP 16
Mail Id: IPM-163-870515-083241212

POLREP 16
LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA
CERCLA EMERGENCY REMOVAL

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (5/14/87 1600 HRS)

A. ERC'S CONTINUING TO HAVE DIFFICULTY WITH HAZ-WASTE HAULING SUBCONTRACTORS. NUMBER OF TRUCKS STILL NOT CONSISTENT WITH TRUCKS REQUESTED. ERC'S RESPONSE MANAGER HAS CONTACTED ALTERNATIVE TRUCKING COMPANIES. THUS FAR ARRANGEMENTS HAVE BEEN MADE FOR 9 TRUCKS TOMORROW. ERC'S WILL CONTINUE TO TRY TO AQUIRE MORE TRUCKS FOR TOMORROW.

B. ADDITIONAL FUNDING REQUEST BEING DRAFTED. IT IS STILL UNCERTAIN WHETHER ADDITIONAL FUNDS WILL BE NECCESSARY, DUE TO THE UNCERTAINTY OF ESTIMATING TONNAGE OF THE STAGED SOIL.

C. WEATHER - OVERCAST, WINDS VARIABLE, TEMP. IN LOW 60'S.

D. PERSONNEL ON SCENE: EPA - 2, TAT - 2, ERC'S - 4.

E. OSC CONTACTED STEVE JARVELA, SR. OSC, AND REQUESTED A PR TO MODIFY DELIVERY ORDER. ERCS BUDGET IS GETTING VERY CLOSE TO CEILING WHEN YOU INCLUDE FORSEEN DISPOSAL COSTS. 12K BORROWED FROM TAT CEILING TO MAKE NEW BUDGET AS FOLLOWS: ERCS- $463K, TAT- $39K, EPA- $10K.

F.

ESTIMATED COSTS TO DATE:		CEILING:
EPA -	$ 7.5K	$10K
TAT -	20.3K	39K
ERCS -	123.0K	463K

II. ACTIONS TAKEN

A. ERCS CONTINUE TRANSPORTATION AND DISPOSAL OF STAGED CONTAMINATED SOIL. ONLY 3 TRUCKS LOADED TODAY DUE TO THE UNAVAILABILITY OF MORE HAULERS. TWO TRUCKS WENT TO CHEM-WASTE IN FORT WAYNE, INDIANA AND ONE WENT TO GSX IN PINEWOOD, S.C. TOTAL TONS OF CONTAMINATED SOIL SHIPPED OUT TO DATE:

CHEM-WASTE-	454 TONS
GSX -	42 TONS

III. FUTURE PLANS

A. ERCS TO CONTINUE TO TRANSPORT AND DISPOSE OF THE STAGED CONTAMINATED SOIL.

B. ADDITIONAL FUNDING REQUEST TO BE SENT THROUGH CONCURRENCE UPON COMPLETION.

JACK L. DOWNIE, OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

To: ERD/OERR (EPA5511)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Delivered: Fri 15-May-87 17:02 EDT Sys 163
Subject: LANCASTER BATTERY SITE POLREP 17
Mail Id: IPM-163-870515-160860246

POLREP 17
LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA
CERCLA EMERGENCY REMOVAL

ATTN: TOM MASSEY AND TIM FIELDS

. SITUATION (5/15/87, 1730 HRS)

A. WEATHER - RAIN AND THUNDERSTORMS IN MORNING, CLEARING IN MID-AFTERNOON, WINDS VARIABLE, TEMP. IN HIGH 60'S.

B. JR. OSC PHIL YOUNIS ON SITE TO ACT FOR OSC DOWNIE WHO HAS PREVIOUS COMMITMENTS.

C. ERCS HAVE WORKED OUT DIFFICULTIES WITH HAULING SUBCONTRACTORS REGARDING NUMBER OF TRUCKS ON SITE EACH DAY. 28 TRUCKS SCHEDULED FOR TODAY. HOWEVER, DUE TO THE WEATHER, OSC AND RESPONSE MANAGER DECIDED TO DELAY LOADING OF TRUCKS BECAUSE THE DISPOSAL FACILITIES WILL NOT ACCEPT THE WASTE IF IT IS TOO WET. AT 1330 HRS, AFTER THE WEATHER HAD CLEARED, JR. OSC YOUNIS DECIDED TO BEGIN LOADING TRUCKS.

D. PERSONNEL ON SCENE: EPA- 2, TAT- 2, ERCS- 6

E. ESTIMATED COSTS TO DATE:

		CEILING:
EPA -	$ 8.0K	$ 10K
TAT -	21.1K	39K
ERCS -	244.0K	463K

. ACTIONS TAKEN

A. TEN TONS OF STONE DELIVERED TO SITE TO CONSTRUCT A MORE STABLE PAD ON THE SOFT GROUND WHERE HAULERS ARE BEING LOADED.

B. TEN 40-YARD CAPACITY TRUCKS LOADED THIS DATE. THREE TRUCKS TO CHEM-WASTE IN FORT WAYNE, INDIANA, AND SEVEN TO GSX IN PINEWOOD, S.C. TOTAL TONS OF CONTAMINATED SOIL TRANSPORTED FOR DISPOSAL TO DATE:

CHEM-WASTE- 511 TONS
GSX - 180 TONS

AR100182

III. FUTURE PLANS

A. ERCS TO CONTINUE TO TRANSPORT AND DISPOSE OF THE [illegible] CONTAMINATED SOIL.

B. ADDITIONAL FUNDING REQUEST FOR 172K TO BE WALKED THROUGH CONCURRENCE 5/18/87.

JACK L. DOWNIE, OSC
U.S.EPA. REGION III
WHEELING, WEST VIRGINIA

PHIL YOUNIS, JR. OSC
U.S.EPA, REGION III
WHEELING, WEST VIRGINIA

AR100183

To: ERD/OERR (EPA5511)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Delivered: Mon 18-May-87 7:53 EDT Sys 183 (53
Subject: LANCASTER BATTERY SITE POLREP 18
Mail Id: IPM-183-870516-070950459

POLREP 18
LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA
CERCLA EMERGENCY REMOVAL

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (5/18/87 1400 HRS)

A. SITE OPERATIONS ARE ON STAND-BY UNTIL 0700 HRS 5/18/87 DUE TO THE SHUTDOWN OF THE TRUCK SCALES ON SUNDAY.

B. PERSONNEL ONSCENE: EPA-1, TAT-1, ERCS-5

C. ESTIMATED COSTS TO DATE

		CEILING
EPA -	$ 8.2K	$ 10K
TAT -	21.4K	39K
ERCS-	230K	463K

D. WEATHER- SUNNY, MILD N.E. BREEZE, HIGH IN UPPER 70'S.

II. ACTIONS TAKEN

A. FOURTEEN HAZ-WASTE HAULING TRUCKS LOADED THIS DATE. TOTAL TONS OF CONTAMINATED SOIL TRANSPORTED FOR DISPOSAL TO DATE:

CHEM-WASTE -	703 TONS
GSX -	285 TONS
TOTAL -	988 TONS

B. TAT SAMPLED EXCAVATED AREA UNDER EASTERN HALF OF THE FORMER STAGING AREA TO DETERMINE IF ADDITIONAL EXCAVATION IS NECESSARY.

III. FUTURE PLANS

A. ERCS TO CONTINUE TRANSPORTATION AND DISPOSAL OF STAGED CONTAMINATED SOIL. UPON COMPLETION OF REMOVING STAGED SOIL PILE, ERCS TO EXCAVATE APPROXIMATELY ONE FOOT UNDER FORMER STAGING AREA FOR DISPOSAL.

B. ERCS TO BEGIN PREPARATION FOR RESTORATION BY CONTACTING HYDROSEED AND CLEAN FILL SUBCONTRACTORS.

C. VERBAL ANALYTICAL RESULTS FROM NEWLY EXCAVATED AREA ANTICIPATED ON 5/19/87.

JACK L. DOWNIE, OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

PHIL YOUNIS, JR. OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

AR100116

To: ERD/OERR (EPA5511)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Delivered: Tue 19-May-87 12:21 EDT Sys 183 (
Subject: LANCASTER BATTERY POLREP 19
Mail Id: IPM-183-870519-111280407

POLREP 19
LANCASTER BATTERY SITE
MANHEIM TWP., LANCASTER CO., PA.
CERCLA EMERGENCY REMOVAL

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (1600HRS, 5-19-87)

A. DEMOBILIZATION OF ERCS AND TAT THIS DATE. OSC TO BASE FINAL DECISION FOR THE NEED OF ADDITIONAL EXCAVATION AND/OR RESTORATION ACTIVITIES UPON ANALYTICAL RESULTS OF EXCAVATED AREA.

B. SUBMISSION OF ADDITIONAL FUNDING REQUEST TO BE BASED ON ANALYTICAL RESULTS AND THE NEED FOR FURTHER EXCAVATION RESULTING IN FURTHER DISPOSAL COSTS.

C. ERCS COMPLETED TRANSPORTATION AND DISPOSAL OF STAGED CONTAMINATED SOIL. EXCAVATED CONTAMINATED SOIL BENEATH THE FORMER STAGING AREA ALSO TRANSPORTED AND DISPOSED OF ON 5/18/87.

D. P. GEARHART , PA. DEPT. OF HEALTH, ON SITE THIS DATE. JR. OSC YOUNIS AND GEARHEART MET WITH OFFICIALS AT AIN PLASTICS, PARKSIDE MOTEL, AND FRANKLIN & MARSHALL COLLEGE REGARDING NIOSH RESULTS AND THE POSTING OF THE FINDINGS ACCORDING TO OSHA REGULATIONS.

E. TAT TO ASSIST THE OSC WITH SAMPLING AND TECHNICAL ASSISTANCE.

F. PERSONNEL ON SCENE: EPA - 1, TAT - 2, ERCS - 5.

G. ESTIMATED COSTS TO DATE:

		CEILING:
EPA	$8.9K	$10K
TAT	24.1K	39K
ERCS	373.9K	463K

H. WEATHER: SUNNY, MILD, WINDS VARIABLE, TEMP. - MID 80'S.

II. ACTIONS TAKEN

A. 20 HAULERS LOADED 5/18/87. TOTAL TONS CONTAMINATED SOIL DISPOSED OF: CHEM-WASTE, FORT WAYNE, INDIANA - 952 TONS
GSX SERVICES, PINEWOOD, S.C. - 453 TONS
TOTAL -1405 TONS

AR100185

B. SAMPLES TAKEN FROM BENEATH STAGED SOIL PILE DELIVERED TO LANCASTER LABS THIS DATE. VERBAL RESULTS TO BE RECEIVED BY MORNING OF 5-27-87.

C. ERC'S BEGIN RESEARCHING OPTIONS FOR RESTORATION OF EXCAVATED AREA.

III. FUTURE PLANS

A. OSC AWAITING ANALYTICAL RESULTS EXPECTED 5/27/87. OSC TO CONFER WITH REMEDIAL DIVISION AND HEALTH OFFICIALS REGARDING ANALYTICAL RESULTS BEFORE MAKING FINAL DECISION.

JACK L. DOWNIE, OSC
U.S.EPA, REGION III
WHEELING, WV.

PHIL YOUNIS, JR. OSC
U.S.EPA, REGION III
WHEELING, WV.

AR1001

To: ERD/OERR (EPA5511)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Delivered: Mon 1-June-87 9:22 EDT Sys 163 (55
Subject: LANCASTER BATTERY POL 20
Mail Id: IPM-163-870601-084410593

POLREP 20
LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER CO., PA
CERCLA EMERGENCY REMOVAL

ATTN: TOM MASSEY, STEVE JARVELA AND TIM FIELDS

I. SITUATION (5/29/87 1400 HRS)

A. VERBAL ANALYTICAL RESULTS RECEIVED 5/27/87 FOR SOIL SAMPLES TAKEN FROM EXCAVATED AREA UNDER THE FORMER STAGING AREA. RESIDUAL LEAD CONTAMINATION STILL PRESENT WITH A RANGE FROM 700 PPM - 40,000 PPM. UPON RECEIPT OF THE RESULTS, OSC CONSULTED FEDERAL AND STATE HEALTH OFFICIALS.

B. TELECONFERENCE HELD 5/28/87. IN ATTENDANCE WERE:
JACK DOWNIE, OSC
PHIL YOUNIS, JR OSC
MARK McCLANAHAN, ATSDR
JOYCE MCCURDY, ATSDR
PETER GEARHART, PA DOH
MILTON STANLEY, PA DOH
JAMES LOGUE, PA DOH
JAMES FOX, PA DOH
DR. SIVARAJAH, PA DOH
OSC PROPOSED RESTORATION ACTIVITIES TO COMMENCE, WITH THE CONCURRENCE OF HEALTH OFFICIALS, SINCE THE GROSS CONTAMINATION IS REMOVED AND THE IMMEDIATE THREAT TO PUBLIC HEALTH IS MITIGATED. APPROXIMATELY ONE FOOT OF SOIL WITH GRASS COVER WILL SUFFICIENTLY RESTORE AND COVER THE REMAINING RESIDUAL LEAD CONTAMINATION. ATSDR AND PA DEPT OF HEALTH OFFICIALS FEEL THERE ARE NO PROBLEMS LEAVING THOSE LEVELS IN PLACE AS LONG AS THE OWNERS ARE AWARE AND THE AREA REMAINS UNDEVELOPED.

II. ACTIONS TAKEN

A. PERIMETER INSPECTION OF EROSION CONTROL MEASURES REVEALED SOIL STABILITY OF NO IMMEDIATE CONCERN.

B. PH ANALYSIS AND SAMPLES COLLECTED WITHIN AND AROUND STAGING AREA. FIELD PH TEST REVEALED NEUTRAL TO VERY SLIGHTLY ACIDIC CONDITIONS. SAMPLES COLLECTED AND DELIVERED TO LANCASTER LAB THIS DATE FOR PH ANALYSIS.

AR100187

III. FUTURE PLANS

A. OSC AWAITING ANALYTICAL RESULTS TO BE RECEIVED BY 6/2/87.

B. OSC TO REMOBE TAT AND ERCS 6/1/87 TO COMMENCE RESTORATION ACTIVITIES.

JACK L. DOWNIE, OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

PHIL YOUNIS, JR OSC
USEPA REGION III
WHEELING, WEST VIRGINIA

AR100.18

POLREP 21
LANCASTER BATTERY SITE
MANHEIM TWP., LANCASTER CO., PA.
CERCLA EMERGENCY REMOVAL

ATTN: TOM MASSEY, STEVE JARVELA, AND TIM FIELDS

I. SITUATION (6/1/87: 2000HRS)

A. ERCS, EPA, AND TAT MOBE ON SITE THIS DATE TO COMMENCE SITE RESTORATION ACTIVITIES.

B. WEATHER: SUNNY. TEMP. 90 DEGREES F, WINDS NW, 0 - 5 MPH.

C. PERSONNEL ON SCENE: EPA - 3, TAT - 2, ERCS - 4.

D. EPA FAS PAULA CURTIN ON SITE THIS DATE TO ASSIST OSC WITH ADMINISTRATIVE DUTIES.

E. ESTIMATED COSTS TO DATE:

			CEILING:
EPA	-	10K	13K
TAT	-	27.5K	39K
ERCS	-	390.5K	460K

II. ACTIONS TAKEN

A. ERCS SUBCONTRACTORS DELIVER 300 YARDS OF CLEAN TOPSOIL.

B. ERCS SPREAD SOIL TO A THICKNESS OF 1 TO 2 FEET OVER THE AREA LEFT WITH RESIDUAL LEAD CONTAMINATION.

C. TAT PROVIDING SITE SAFETY, CONTRACTOR MONITORING, AND TECHNICAL ASSISTANCE TO OSC.

III. FUTURE PLANS

A. SITE TO BE COMPACTED, SEEDED, AND MULCHED 6/2/87.

B. ERCS, EPA, AND TAT TO DEMOBE UPON COMPLETION OF RESTORATION ACTIVITIES ANDTICIPATED BY C.O.B. 6/2/87.

C. TATS TO CONDUCT A FINAL HIGH VOLUME AIR MONITORING SURVEY FOR TWO CONSECUTIVE DAYS UPON COMPLETION OF PROJECT.

JACK DOWNIE, OSC
U.S. EPA REGION III
WHEELING, W.V.

PHIL YOUNIS, JR.OSC
U.S. EPA REGION III
WHEELING, W.V.

AR100189

To: ERD/OERR (EPA5511)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Delivered: Wed 3-June-87 14:05 EDT Sys 16:
Subject: LANCASTER BATTERY SITE POLREP 22
Mail Id: IPM-163-870603-126820917

POLREP 22
LANCASTER BATTERY SITE
MANHEIM TWP., LANCASTER CO., PA.
CERCLA REMOVAL PROJECT

ATTN: TOM MASSEY, STEVE JARVELA, AND TIM FIELDS.

I. SITUATION (1300HRS: 6/2/87)

A. ALL SITE ACTIVITIES COMPLETED THIS DATE.

B. WEATHER: SUNNY, TEMP. MID 80'S, WINDS VARIABLE.

C. PERSONNEL ON SCENE: EPA - 3, TAT - 2, ERCS - 4.

D. EPA OPA NANCY SINCLAIR ON SITE THIS DATE TO COORDINATE SITE CLOSING ACTIVITIES WITH PRESS. TELEVISION AND NEWSPAPER REPORTERS ON SITE THIS DATE.

E. ESTIMATED COSTS TO DATE:

		CEILING:
EPA -	10.2K	13K
TAT -	29K	39K
ERCS -	393K	460K

F. VERBAL RESULTS FROM SAMPLES TAKEN 5/29/87 RECEIVED THIS DATE. RESULTS INDICATED PH OF SOIL NEUTRAL TO VERY SLIGHTLY ACIDIC. OSC DETERMINED THAT LIMING THE SOIL UNNECESSARY DUE TO ITS NEUTRALITITY.

II. ACTIONS TAKEN

A. ERCS SUBCONTRACTORS COMPACT, SEED, AND MULCH BACKFILLED AREA THIS DATE.

B. OSC YOUNIS INFORMED AIN PLASTICS, BANNER FOODS, PARKSIDE MOTEL, FRANKLIN & MARSHALL COLLEGE, AND MANHEIM TWP. THAT ALL EMERGENCY ACTIONS HAVE BEEN COMPLETED.

C. ERCS, TAT, AND EPA DEMOBE THIS DATE.

III. FUTURE PLANS

A. FINAL AIR MONITORING SURVEY TO FOLLOW UPON ACQUIRING A GRASS COVER WITH SITE STABILIZATION TAKING HOLD. HIGH VOLUME AIR SAMPLING WILL OCCUR ON CONSECUTIVE DAYS.

JACK DOWNIE, OSC
U.S.EPA REGION III
WHEELING, W.V.

PHIL YOUNIS, JR.OSC
U.S. EPA REGION III
WHEELING, W.V.

AR100190

To: ERD/OERR (EPA5511)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Delivered: Fri 26-June-87 11:25 EDT Svs 163
Subject: LANCASTER BATTERY POLREP 23
Mail Id: IPM-163-870626-102860388

POLREP 23
LANCASTER BATTERY SITE
MANHEIM TWP.,LANCASTER CO.,PA.
CERCLA REMOVAL PROJECT

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (1600HRS. 6/23/87)

A. SITE BACKFILLED, GRATED, AND SEEDED 6/2/87. SITE STABILIZATION TAKING HOLD. HOWEVER. SOME EROSION GULLIES WERE NOTICABLE IN RESTORED AREA. EXTREMELY HEAVY RAINS HAVE OCCURED SINCE RESTORATION. OSC FEELS THAT SOME SIMPLE EROSION CONTROL MEASURES, REPACKING GULLIES WITH RIP-RAP, TOP SOIL, AND RE-SEEDING COULD REMEDIE THIS PROBLEM.

II. ACTIONS TAKEN

A. OSC CONTACTED ERCS AND DIRECTED THEM TO MAKE ARRANGEMENTS WITH LOCAL LANDSCAPING CONTRACTOR TO PERFORM THE NECCESSARY EROSION CONTROL MEASURES.

B. TAT PROVIDED PHOTODOCUMENTATION AND TECHNICAL ASSISTANCE TO OSC.

III. FUTURE PLANS

A. EROSION CONTROL MEASURES TO BE PERFORMED BY ERCS SUBCONTRACTOR ASAP.

B. FINAL HIGH VOLUME AIR MONITORING SURVEY TO FOLLOW ON TWO CONSECTUTIVE DAYS.

JACK DOWNIE, OSC
PHIL YOUNIS, JR. OSC
U.S. EPA REGION III
WHEELING, WV.

AR100191

POLREP 24
LANCASTER BATTERY SITE
MANHEIM TWP., LANCASTER CO., PA.
CERCLA REMOVAL SITE

ATTN: TOM MASSEY, STEVE JARVELA, AND TIM FIELDS

I. SITUATION:(6-26-87:1700HRS)

A. ERCS LANDSCAPING SUBCONTRACTOR ON SITE THIS DATE TO PERFORM THE NECCESSARY EROSION CONTROL MEASURES AND TO REPAIR THE DAMAGE DONE TO THE RESTORED AREA BY UNSEASONABLY HEAVY RAINS THAT HAVE OCCURRED SINCE SITE RESTORATION ON 6-2-87.

B. ESTIMATED COSTS TO DATE:

		CIELING:
EPA -	10.2K	13K
TAT -	29K	39K
ERCS -	417K	460K

II. ACTIONS TAKEN

A. ERCS SUBCONTRACTOR FILLED AND COMPACTED ALL EROSION GULLIES ON SITE WITH TOPSOIL. 10 TONS OF TOPSOIL USED.

B. CURTEX EROSION PREVENTION MATTING LAID ACROSS NEWLY RESTORED AREAS AND ON AREAS WHERE OSC FELT THAT EROSION COULD STILL CAUSE A PROBLEM.

III. FUTURE PLANS

A. FINAL HIGH-VOLUME AIR MONITORING SURVEY TENTATIVELY SCHEDULED FOR JULY 9-11, 1987.

B. OSC REPORT TO BE DRAFTED.

JACK DOWNIE, OSC
PHIL YOUNIS, JR.OSC
U.S.EPA, REGION III
WHEELING,WV.

AR1001

POLREP 25
LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PA
CERCLA REMOVAL SITE

ATTN: TOM MASSEY AND TIM FIELDS

I. SITUATION (1300 HRS, 7-21-87)

A. TATM'S HARNETT AND MATLOCK ALONG WITH PENNSYLVANIA BUREAU OF AIR QUALITY CONTROL (PABAQC) TERRY RAINAR INSPECT THE SITE TO DETERMINE ELECTRICAL SUPPLIES NEEDED TO OPERATE AIR MONITORS.

B. OSC'S DOWNIE AND YUNICE ON-SITE 7-9-87 TO INSPECT GROUND COVER AND LOCATION OF AIR MONITORING STATIONS.

C. ON 7-10-87 AIR MONITORING STATIONS WERE SET UP PER OSC REQUEST. ON-SITE, PERIMETER (ATHLETIC FIELD) AND BACKGROUND AMBIENT STATIONS WERE USED FOR HIGH VOLUME SAMPLING AT FLOW RATES OF 1,200 TO 1,500 LITERS/MINUTE (LPM). SAMPLES ARE BEING TESTED FOR LEAD AND TOTAL SUSPENDED PARTICULATE LEVELS. FOUR SELECT SAMPLES WILL BE ANALYZED FOR ARSENIC.

D. PABAQC HAS BEEN MOST VALUABLE IN PROVIDING TECHNICAL SUPPORT AS WELL AS USE OF AIR MONITORING EQUIPMENT.

E. PERSONNEL ON SCENE
EPA-2
TAT-2
PABAQC-1

F. ESTIMATED COSTS TO DATE

		CEILING
ERCS	418.5K	460K
EPA	10.2K	13K
TAT	32.5K	39K

II. ACTIONS TAKEN

A. SITE ACCESS PERMISSION OBTAINED FROM BURNHAM TECH CENTER MANAGER, AIN PLASTICS MANAGER, BANNER FOODS MANAGER AND PARKSIDE MOTEL MANAGER FOR SAMPLING NEEDS.

B. TAT PERFORMED COST TRACKING, SITE SAFETY, AIR MONITORING AND PHOTODOCUMENTATION.

C. ON 7-11-87 TATM HARNETT DEMOBED FROM SITE. TATM MATLOCK REMAINED ON SITE TO COMPLETE AIR MONITORING.

D. TATM MATLOCK DISASSEMBLED AIR MONITORING STATIONS AND RETURNED THEM TO PABAQC IN HARRISBURG ON 7-14-87.

AR100193

E. ON 7-14-87 TATM MATLOCK DEMOBED FROM SITE.

III. FUTURE PLANS

A. TAT AWAITING SAMPLE RESULTS. RESULTS EXPECTED BY 7-30-87.

B. TAT WILL PREPARE COMPREHENSIVE AIR SAMPLING REPORT.

C. OSC REPORT TO BE DRAFTED.

JACK DOWNIE, OSC
U.S. EPA, REGION III
WHEELING, WV

AR1001

To: ERD/OERR (EPA5511)
To: J.DOWNIE (EPA9327)
To: T.MASSEY (EPA9374)
From: T.MASSEY (EPA9374) Delivered: Wed 12-Aug-87 14:07 EDT Sys 163 (52
Subject: LANCASTER BATTERY POLREP 26 AND FINAL
Mail Id: IPM-163-870812-127111005

POLREP 26 AND FINAL
LANCASTER BATTERY SITE
MANHEIM TWP., LANCASTER CO., PA.
CERCLA REMOVAL SITE

ATTN: TOM MASSEY, STEVE JARVELA, AND TIM FIELDS.

I. SITUATION (8-10-87)

A. ANALYTICAL RESULTS OF FINAL HIGH VOLUME AIR MONITORING STUDY PERFORMED JULY 10-14, 1987 WERE RECEIVED 7/30/87. RESULTS INDICATE A REDUCTION OF AIRBORNE LEAD LEVELS ON SITE AND ON ATHLETIC FIELD RELATIVE TO LEAD LEVELS MEASURED IN MARCH 1987 BEFORE REMOVAL ACTIVITIES AND DURING REMOVAL ACTIVITIES. NONE OF THE MEASURED AIRBORNE LEAD LEVELS FOR JULY 1987 EXCEEDED THE NATIONAL AMBIENT AIR QUALITY STANDARD OF 1.5 MICROGRAMS PER CUBIC METER FOR A 24 HOUR PERIOD.

B. OSC FEELS THAT BY EXCAVATING THE LEAD CONTAMINATED SOIL AND BY BACKFILLING AND SEEDING THE AFFECTED AREA OFF-SITE MIGRATION OF LEAD BY BOTH STORMWATER RUNOFF AND AIR DISPERSION HAS BEEN GREATLY REDUCED AND NO LONGER POSES A THREAT TO THE PUBLIC HEALTH OR THE ENVIRONMENT.

C. ESTIMATED PROJECT COSTS:

			CEILING:
EPA	-	10.5K	13K
TAT	-	33.0K	39K
ERCS	-	418.5K	460K

D. LANCASTER BATTERY DELIVERY ORDER #6893-03-110 WAS ISSUED FOR A TOTAL OF $463,000; 250,000 ON 3-11-87 AND 213,000 ON 5-15-87. DUE TO PROJECT COMPLETION, OSC RECOMMENDS DEOBLIGATION OF PROJECT FUNDS IN THE AMOUNT THE CONTRACT OFFICER DEEMS NECESSARY.

AR100195

II. FUTURE PLANS

A. OSC FEELS THAT NO FURTHER CERCLA REMOVAL ACTIONS ARE REQUIRED AT THIS SITE.

B. OSC REPORT TO BE COMPLETED.

C. COMPREHENSIVE AIR SAMPLING REPORT TO BE PREPARED.

JACK L. DOWNIE, OSC
U.S.EPA, REGION III
WHEELING, WV.

PHIL YOUNIS, JR. OSC
U.S.EPA, REGION III
PHILADELPHIA, PA.

AR10019

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION III
Emergency Response Section
303 Methodist Building
Wheeling, West Virginia 26003

March 10, 1987

Mr. Stuart C. Manix
116 Wheatland Avenue
Lancaster, PA 17604

Re: Lancaster Battery Site
1330 Harrisburg Avenue
Lancaster, PA

Dear Mr. Manix:

The U.S. Environmental Protection Agency (EPA) is about to spend public funds to investigate and take corrective action involving releases of hazardous substances, pollutants and other contaminants at the Lancaster Battery Site, Lancaster County, PA. This action is authorized by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601 et seq. as amended by public law No. 99-499,100 STAT 1613 (1986) CERCLA. Under CERCLA, responsible parties may be liable for money expended by the Government to take necessary action at the site, including investigation, planning, cleanup of the site, and enforcement costs. Potentially responsible parties include the current owner or operator of the site, the past owner or operator, and the persons who generated the substances or were involved in transport, treatment, or disposal of them at the site.

EPA believes that you are a responsible party. Before the Government takes necessary action at this site, you have the opportunity to voluntarily perform the required work to secure the site and abate any releases of hazardous substances or contaminants from the site. If private cleanup and security actions are not forthcoming and we use public funds, you may be liable for the costs incurred.

If your decision is to initiate privately funded cleanup of the site, you must:

1. Initiate containment of high level lead and other heavy metals found in the soils surrounding the Lancaster Battery Site.

2. Perform additional environmental sampling to better determine the extent and magnitude of off-site migration of lead.

AR100197

3. Based on the results of the environmental samples:
   a) Remove and dispose properly the on-site soil containing high levels of lead and other heavy metals
   b) Remove and dispose of properly the off-site soils exceeding safe levels. The off-site soils will be cleaned down to background or to less than 500 ppm lead content.

4. There are reports of a buried tank under the loading dock. The condition and contents of this tank must be determined. It may be necessary to excavate and remove this tank to a suitable disposal facility.

5. Provide dust suppression during removal operations to minimize off-site migration of contaminants, and implement appropriate respiratory protection for workers during removal operations in accordance with EPA/OSHA regulations.

6. All actions must be completed in a manner acceptable to the EPA On-Scene Coordinator or his designated representative.

If you desire, representatives of EPA will meet with you to discuss this notice. Kindly contact the undersigned either by telephone (304) 233-9831 or in writing if you wish to participate in the cleanup activities. If we do not receive a response by March 17, 1987, we will assume that you do not wish to participate.

Very truly yours,

Jack L. Downie

/Jack L. Downie, OSC
Region III, EPA
Wheeling, WV

/jmr

POST OFFICE TO ADDRESSEE

EXPRESS MAIL
NEXT DAY SERVICE

B 25418453

For Postal Use

ORIGIN	Date In:	Postage $
Post Office ZIP Code	Time In: A.M. P.M.	
Initials of Receiving Clerk	Weight ____ lbs	Return Receipt Fee $

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Total Postage & Fees $

For Customer Use

Account Number (If any) (Using an authorized number indicates postage and fees paid.)

Express Mail Corporate Account No.:

Federal Agency Control No.: UG2

FROM:

XXXXXXXXXXX
J. Downie
US EPA - Region III
Wheeling, WV 26003

Service Guarantee:
If this shipment is mailed at designated USPS Express Mail service facilities on or before the specified deposit time for next day delivery to the addressee, it will be delivered to the addressee or agent by 3:00 p.m. of the next day. Upon application by the *mailer at the Express* Mail originating office, USPS will refund the postage for this shipment if it is not delivered by 3:00 p.m. of the next day, unless delivery was attempted but could not be made or the shipment was delayed by strike or work stoppage. See Domestic Mail Manual Chapter 2 for details.
Mail International Service mailings are not covered by this service guarantee. See the International Mail Manual for details.

Insurance Coverage:
See section 294 of the Domestic Mail Manual *for exclusions of coverage.*

(1) *Merchandise Insurance.* Merchandise is insured against loss, damage or rifling up to a maximum of $500. Indemnity will not be paid for spoilage of perishable items.
(2) *Document Reconstruction Insurance.* Non-negotiable documents are insured against loss, damage or rifling up to $50,000 per piece subject to a limit of $500,000 per occurrence.

- Signature is required upon delivery.
- Claims for delay, loss, damage or rifling must be made within 90 days. Claim forms may be obtained at the post office of mailing.
- The Customer Receipt must be presented when a claim is filed.

CUSTOMER RECEIPT

For Postal Use

TO: Telephone Number:

Mr. Stuart Manix
116 Wheatland Avenue
Lancaster, PA 17604

AR100199

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION III
Emergency Response Section
303 Methodist Building
Wheeling, West Virginia 26003

March 10, 1987

Mr. and Mrs. Charles Myers
1055 Forest Lakes 110
Naples, FL 23942

Re: Lancaster Battery Site
1330 Harrisburg Avenue
Lancaster, PA

Dear Mr. and Mrs. Myers:

The U.S. Environmental Protection Agency (EPA) is about to spend public funds to investigate and take corrective action involving releases of hazardous substances, pollutants and other contaminants at the Lancaster Battery Site, Lancaster County, PA. This action is authorized by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601 et seq. as amended by public law No. 99-499,100 STAT 1613 (1986) CERCLA. Under CERCLA, responsible parties may be liable for money expended by the Government to take necessary action at the site, including investigation, planning, cleanup of the site, and enforcement costs. Potentially responsible parties include the current owner or operator of the site, the past owner or operator, and the persons who generated the substances or were involved in transport, treatment, or disposal of them at the site.

EPA believes that you are a responsible party. Before the Government takes necessary action at this site, you have the opportunity to voluntarily perform the required work to secure the site and abate any releases of hazardous substances or contaminants from the site. If private cleanup and security actions are not forthcoming and we use public funds, you may be liable for the costs incurred.

If your decision is to initiate privately funded cleanup of the site, you must:

1. Initiate containment of high level lead and other heavy metals found in the soils surrounding the Lancaster Battery Site.

AR100200

2. Perform additional environmental sampling to better determine the extent and magnitude of off-site migration of lead.

3. Based on the results of the environmental samples:
   a) Remove and dispose properly the on-site soil containing high levels of lead and other heavy metals
   b) Remove and dispose of properly the off-site soils exceeding safe levels. The off-site soils will be cleaned down to background or to less than 500 ppm lead content.

4. There are reports of a buried tank under the loading dock. The condition and contents of this tank must be determined. It may be necessary to excavate and remove this tank to a suitable disposal facility.

5. Provide dust suppression during removal operations to minimize off-site migration of contaminants, and implement appropriate respiratory protection for workers during removal operations in accordance with EPA/OSHA regulations.

6. All actions must be completed in a manner acceptable to the EPA On-Scene Coordinator or his designated representative.

If you desire, representatives of EPA will meet with you to discuss this notice. Kindly contact the undersigned either by telephone (304) 233-9831 or in writing if you wish to participate in the cleanup activities. If we do not receive a response by March 17, 1987, we will assume that you do not wish to participate.

Very truly yours,

Jack L. Downie

Jack L. Downie, OSC
Region III, EPA
Wheeling, WV

/jmr

POST OFFICE TO ADDRESSEE

EXPRESS MAIL
NEXT DAY SERVICE

B 25418458

For Postal Use

ORIGIN	Date In:	Postage $
Post Office ZIP Code	Time In: A.M. P.M.	
Initials of Receiving Clerk	Weight lbs.	Return Receipt Fee $

ACCEPTANCE

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☑ Accepted for this destination after deposit deadline for next day delivery; therefore, for delivery by second day.

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Total Postage & Fees $

For Customer Use

Account Number (If any) (Using an authorized number indicates postage and fees paid.)

Express Mail Corporate Account No.:

Federal Agency Control No.: 062

FROM:

J. Downie
US EPA - Region III
WHeeling, WV 26003

Service Guarantee:
If this shipment is mailed at designated USPS Express Mail service facilities on or before the specified deposit time for next day delivery to the addressee, it will be delivered to the addressee or agent by 3:00 p.m. of the next day. Upon application by the mailer at the Express Mail originating office, USPS will refund the postage for this shipment if it is not delivered by 3:00 p.m. of the next day, unless delivery was attempted but could not be made or this shipment was delayed by strike or work stoppage. See Domestic Mail Manual Chapter 2 for details.
Mail International Service mailings are not covered by this service guarantee. See the International Mail Manual for details.

Insurance Coverage:
See section 294 of the Domestic Mail Manual for exclusions of coverage.

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(2) *Document Reconstruction Insurance.* Non-negotiable documents are insured against loss, damage or rifling up to $50,000 per piece subject to a limit of $500,000 per occurrence.

- Signature is required upon delivery.
- Claims for delay, loss, damage or rifling must be made within 90 days. Claim forms may be obtained at the post office of mailing.
- The Customer Receipt must be presented when a claim is filed.

CUSTOMER RECEIPT

For Letter Use

TO: Telephone Number:

Mr. & Mrs. Charles Myers
1055 Forest Lakes 110
Naples, FL 23942

AR100254

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION III
Emergency Response Section
303 Methodist Building
Wheeling, West Virginia 26003

March 10, 1987

Mr. Ralph Martin
Plant Manager
Ain Plastics, Incorporated
1330 Harrisburg Avenue
Lancaster, PA 17604

Re: Lancaster Battery Site
1330 Harrisburg Avenue
Lancaster, PA

Dear Mr. Martin:

The U.S. Environmental Protection Agency (EPA) is about to spend public funds to investigate and take corrective action involving releases of hazardous substances, pollutants and other contaminants at the Lancaster Battery Site, Lancaster County, PA. This action is authorized by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601 et seq. as amended by public law No. 99-499,100 STAT 1613 (1986) CERCLA. Under CERCLA, responsible parties may be liable for money expended by the Government to take necessary action at the site, including investigation, planning, cleanup of the site, and enforcement costs. Potentially responsible parties include the current owner or operator of the site, the past owner or operator, and the persons who generated the substances or were involved in transport, treatment, or disposal of them at the site.

EPA believes that you are a responsible party. Before the Government takes necessary action at this site, you have the opportunity to voluntarily perform the required work to secure the site and abate any releases of hazardous substances or contaminants from the site. If private cleanup and security actions are not forthcoming and we use public funds, you may be liable for the costs incurred.

If your decision is to initiate privately funded cleanup of the site, you must:

AR100203

1. Initiate containment of high level lead and other heavy metals found in the soils surrounding the Lancaster Battery Site.

2. Perform additional environmental sampling to better determine the extent and magnitude of off-site migration of lead.

3. Based on the results of the environmental samples:
   a) Remove and dispose properly the on-site soil containing high levels of lead and other heavy metals
   b) Remove and dispose of properly the off-site soils exceeding safe levels. The off-site soils will be cleaned down to background or to less than 500 ppm lead content.

4. There are reports of a buried tank under the loading dock. The condition and contents of this tank must be determined. It may be necessary to excavate and remove this tank to a suitable disposal facility.

5. Provide dust suppression during removal operations to minimize off-site migration of contaminants, and implement appropriate respiratory protection for workers during removal operations in accordance with EPA/OSHA regulations.

6. All actions must be completed in a manner acceptable to the EPA On-Scene Coordinator or his designated representative.

If you desire, representatives of EPA will meet with you to discuss this notice. Kindly contact the undersigned either by telephone (304) 233-9831 or in writing if you wish to participate in the cleanup activities. If we do not receive a response by March 17, 1987, we will assume that you do not wish to participate.

Very truly yours,

Jack L. Downie

Jack L. Downie, OSC
Region III, EPA
Wheeling, WV

/jmr

POST OFFICE TO ADDRESSEE

EXPRESS MAIL
NEXT DAY SERVICE

B 25418454

For Postal Use

ORIGIN	Date In: 2/11/87	Postage $ [illegible]
Post Office ZIP Code 26003	Time In: 5 A.M. P.M.	Return Receipt Fee $
Initials of Receiving Clerk [illegible]	Weight 1 lbs.	

ACCEPTANCE

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Total Postage & Fees $ [illegible]

Account Number (if any) (Using an authorized number indicates postage and fees paid.)

Express Mail Corporate Account No.: _____

Federal Agency Control No.: 062

For Customer Use

FROM:

Mr. J. Downie
US EPA - Region III
Wheeling, WV 26003

Service Guarantee:
If this shipment is mailed at designated USPS Express Mail service facilities on or before the specified deposit time for next day delivery to the addressee, it will be delivered to the addressee or agent by 3:00 p.m. of the next day. Upon application by the mailer at the Express Mail originating office, USPS will refund the postage for this shipment if it is not delivered by 3:00 p.m. of the next day, unless delivery was attempted but could not be made or this shipment was delayed by strike or work stoppage. See Domestic Mail Manual Chapter 2 for details.
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- Signature is required upon delivery.
- Claims for delay, loss, damage or rifling must be made within 90 days. Claim forms may be obtained at the post office of mailing.
- The Customer Receipt must be presented when a claim is filed.

CUSTOMER RECEIPT

For Customer Use

TO: Telephone Number: _____

Mr. Ralph Martin
Plant Manager
Ain Plastics, Inc
1330 Harrisburg Avenue
Lancaster, PA 17604

AR100205

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
841 Chestnut Building
Philadelphia, Pennsylvania 19107

JAN 30 1987

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

In Reply Refer To: 3HW14

AIN Plastics, Inc.
Ralph Martin, Plant Manager
1330 Harrisburg Avenue
Lancaster, PA 17604

Re: Lancaster Battery Site, Manheim, Lancaster County, Pennsylvania

Dear Mr. Martin:

The U.S. Environmental Protection Agency (EPA) is seeking information concerning a release, or the threat of a release, of hazardous substances into the environment. Pursuant to the authority of Section 3007(a) of the Resource Conservation and Recovery Act ("RCRA"), 42 U.S.C. § 6927(a), and Section 104(e) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 ("CERCLA"), 42 U.S.C. § 9604(e), you are requested to furnish all information and documents in your possession, custody or control, or in the possession, custody or control of any of your officers, employees or agents which concern, refer, or relate to hazardous substances as defined by Section 101(14) of CERCLA, 42 U.S.C. § 9601(14), particularly acids, lead, and other heavy metals which were brought, transported to, or stored, or disposed of at the above referenced site. This particularly includes any batteries intended for scrapping.

All information and documents requested are due to the address listed below within ten (10) calendar days of receipt of this letter.

The response should include, but not be limited to, information and documentation concerning:

1. The types and quantities of the hazardous substances sent to the this site;

2. The date(s) and suppliers of such substances that were sent to the site;

3. The state (i.e., liquid, solid, or gaseous) of the substances sent to this site, and the manner in which the substances were reprocessed, remanufactured, stored or disposed (i.e., drummed or uncontained, placed in lagoons, landfilled, placed in piles, etc.);

4. The date(s) and buyers of such substances that were shipped from this site;

5. Any correspondence between you and any regulatory agencies regarding such substances;

6. Any correspondence between you and any third party regarding such substances;

7. The identity of, and documents relating to, any other person who generated, treated, stored, transported, or disposed, or who arranged for the treatment, storage, disposal, or transportation of such substances to and/or from this site;

8. Copies of any deeds, rights-of-way, leases, or other real interests which you have or had in this site.

Please describe any documents that were maintained by you of the transactions with Charles & Genevieve Myers, Stuart Manix and Lancaster Battery including the date of the documents, the author of the documents, the current location of the documents and the current custodian, and all efforts that were taken to identify these documents.

In addition to the above information, if your company is privately insured against releases of hazardous wastes or substances as a result of the handling of such materials, please inform us of the existence of such insurance and provide us with copies of all insurance policies.

As used herein, the term "documents" means writings (handwritten, typed or otherwise produced or reproduced) and includes, but is not limited to, any invoices, checks, receipts, bills of lading, weight receipts, toll receipts, correspondence, offers, contracts, agreements, deeds, leases, manifests, licenses, permits, bids, proposals, policies of insurance, logs, books of original entry, minutes of meetings, memoranda, notes, calendar or diary entries, agendas, bulletins, notices, announcements, charts, maps, photographs, drawings, manuals, brochures, reports of scientific study or investigation, schedules, price lists, telegrams, teletypes, phono-records, magnetic voice or video records, tapes, summaries, magnetic tapes, punch cards, recordings, discs, computer printouts, or other data compilations from which information can be obtained or translated.

You are entitled to assert a claim of business confidentiality covering part of the submitted information, in the manner described in 40 C.F.R. Section 2.203(b). Information subject to a claim of business confidentiality will be made available to the public only in accordance with the procedures set forth in 40 C.F.R. Part 2, Subpart B. Unless a business confidentiality claim is asserted at the time the requested information is submitted, EPA may make this information available to the public without further notice to you.

Please send the required information to:

Walter F. Lee
U.S. Environmental Protection Agency, Region III
CERCLA Removal Enforcement Section (3HW14)
841 Chestnut Building, 6th Floor
Philadelphia, PA 19107

If you have any questions concerning this matter, please contact Dr. Lee at (215) 597-6623.

Sincerely,

Bruce P. Smith, Chief
Hazardous Waste Enforcement Branch

Enclosure(s): Location Map

cc: Terrence Rainar, PADER

1-15-87 LANCASTER NEW ERA

Pa. Health Unit to Investigate

Manix to Fight Dumping Charge; Hearing Slated

By JOHN M. HOOBER III
and JANET KELLEY
New Era Staff Writers

Lancaster businessman Stuart C. Manix plans to fight criminal charges that accuse him and his former firm, Lancaster Battery Co., of violating the Solid Waste Management Act, an attorney for Manix said today.

"We will contest it all the way," said Lancaster attorney J. Richard Gray.

The attorney general is claiming that between July 1981 and January 1985 employees at Lancaster Battery, 1330 Harrisburg Ave., pumped lead-contaminated waste 38 times from collection tanks onto an open field beside the plant.

On Wednesday morning, the attorney general filed multiple felony counts of operating a waste disposal facility without a permit against Manix and Lancaster Battery.

No health-related agency is presently involved in investigating the alleged dumping, although the state Health Department has been asked by the attorney general to do so.

Manix, 44, of 1116 Wheatland Ave., was reported to be in Wilmington, Del. today and could not be reached for comment. He no longer operates Lancaster Battery, which closed in early 1986.

The former Lancaster Battery building has been taken over by AIN Plastics of Pennsylvania Inc.

According to newspaper records, Manix and two other businessmen purchased Blue Mountain Spring Water Inc. of Harrisburg in 1985. Blue Mountain delivers water and related supplies to homes and offices in a seven-county area, including Lancaster County.

Gray said from reading the attorney general's criminal complaint against Manix "it is hard to see what he is accused of doing."

Gray said his strategy will be to "go ahead and see what they (state prosecutors) have and what evidence they present."

A hearing on the charges is scheduled for Jan. 28. Manix was arraigned Wednesday morning. District Justice Doris James set bail at $8,000, but released Manix on his own recognizance.

In announcing the charges, state Attorney General LeRoy S. Zimmerman said he would be sending a letter to state Health Secretary Dr. H. Arnold Muller asking Muller "to determine whether the alleged dumping poses a threat to the health of the area's residents and workers."

The attorney general is alleg-

—See MANIX—Page 42

Manix

(Continued from Back Page)

ing that Lancaster Battery employees pumped the waste into a field that separates the firm from Banner Foods, a wholesale poultry distribution center at 1340 Harrisburg Ave.

The attorney general said a soil sample from the field shows a high lead concentration, and through the investigation it was learned that a number of Lancaster Battery employees "suffer from elevated lead levels in their blood."

Paul Steinmetz, general manager of Banner Foods for the past 4½ years, said he will be scheduling blood tests for his 10 employees.

"I'm not going to sit around and wait three months for something more conclusive," said Steinmetz.

Steinmetz said his employees are seldom ill, and he knows of no illness related to what was going on at Lancaster Battery.

"We've had this problem with them for 10 years," said John O'Brien, owner of the Parkside Motel, a 40-unit motel at 1310 Harrisburg Ave.

O'Brien said "once or twice a year" dust collectors at Lancaster Battery would break down and dust would fly toward the motel. "We would call the Department of Environmental Resources. They would tell them (Lancaster Battery) to fix it up, and they would send a guy out."

In his letter to the state health secretary, Zimmerman noted that laboratory analysis of dust and dirt from vacuum cleaner bags at the Parkside Motel revealed high concentrations of lead.

Bruce Reimer, a spokesman for the state health department said that Zimmerman sent a letter to Muller on Wednesday.

In the letter, Reimer said, Zimmerman asked the health department to look at the situation and conduct an investigation of its own to determine whether the dumping from the Lancaster Battery plant "could pose a threat to the health" of the people living in the area.

Zimmerman, Reimer said, mentioned that his department's "investigation alleges that a number of former employees have suffered from elevated lead levels in their blood."

Reimer said that he anticipated Muller would assign the matter to a staff member before leaving office later this week with the change in administration.

209

Battery Firm's Owner Arrested For Lead Dumping

State prosecutors Wednesday filed 39 criminal charges against the former Lancaster Battery Co. and its owner, alleging that the firm pumped hazardous lead wastes on to a field off Harrisburg Avenue.

Stuart C. Manix

The company, which closed in 1986, was located at 1330 Harrisburg Ave. The building has been taken over by AIN Plastics of Pennsylvania Inc.

Lancaster Battery owner Stuart C. Manix, 44, of 1116 Wheatland Ave., was arrested and had a preliminary arraignment Wednesday before District Justice Doris James. He was released on $8,000 bail.

A preliminary hearing has been scheduled for Jan. 28.

A probe into the possible impact of the dumping on workers' health could involve the state health department and U.S. Department of Occupational Safety and Health Administration (OSHA).

High lead levels were found in dust at the nearby Parkside Motel and in the blood of former Lancaster Battery employees, state Attorney General LeRoy S. Zimmerman said in a letter to state Health Secretary Dr. H. Arnold Muller.

Zimmerman asked Muller to "determine whether the alleged dumping poses a threat to the health of the area's residents and workers."

A soil sample from the field showed a lead concentration of 10,970 parts per million, Zimmerman said in a statement. Concentrations above 5 parts per million are considered toxic.

The state Department of Environmental Resources, which has cooperated in the case, will probably wait for a verdict on the charges before ordering a cleanup, said DER spokesman Susan Woods.

The felony offenses carry a maximum penalty of up to 10 years in prison and a $100,000 fine, said a spokesman for state Attorney General LeRoy S. Zimmerman. The crimes violate the state Solid Waste Management Act.

Manix's attorney, J. Richard Gray, said, "We have every intention of contesting the charges."

Prosecutors allege that between July 1981 and January 1985 Lancaster Battery employees pumped lead-contaminated waste 38 times from collection tanks onto a field between Lancaster Battery and Banner Foods, 1340 Harrisburg Ave.

Lancaster Battery owned the field, which is also near Parkside Motel, 1310 Harrisburg Ave., and athletic fields used by Franklin and Marshall College students.

More FIRM'S Page 46

Continued from Back Page

The attorney general's office has obtained Lancaster Battery's contracts for portable pumps it rented from Ace Rental and used to pump the waste onto the field, a spokesman for the attorney general said.

The waste included battery acid and lead oxide that flowed into tanks through floor drains in the plant's barrery disassembling area, where old batteries were cut up with axes, investigators said.

The pumping brought 38 charges of operating a hazardouse waste or residual waste facility without a permit.

A separate charge of dumping waste on the ground without a permit was also lodged. The company allowed lead dust filtered from the air in the plant's lead smelting department to overflow on to the ground outside when collection drums were full, prosecutors contend.

Jack Lewis, press secretary for Zimmerman, said he had seen nothing in the affadavit for the case outlining a motive behind the pumping.

In many other instances of illegal dumping, firms wanted to avoid the expense of proper hazardous waste disposal, Lewis added.

He said state prosecutors were called in on the Lancaster Battery case in April after company employees complained to OSHA.

Lewis cautioned that it has not been determined whether the high lead levels in workers and at the motel were caused by lead-contaminated dust produced by the illegal activities.

It is possible that the levels would have existed anyway because of routine battery company operations, he said.

Paul Steinmetz, general manager of Banner Foods, said he does not believe the lead dumping has affected the health of his employees, who have had very few absences for illness.

Banner Foods is a wholesale poultry distribution center. All the food is packaged before it arrives at the plant for distribution and would not have been contaminated, Steinmetz said.

Ms. Woods said that, in general, companies convicted of illegal dumping are required to clean up the waste. A verdict has to be reached before the cleanup is ordered.

AR 100 2

The contaminated soil could be removed from the field or the area could be covered with clay or a synthetic liner to prevent the lead from polluting the air or water run-off, she said.

Threats to Public, Underground Water Cited

$550,000 EPA 'Superfund' Cleanup of Battery Dump Will Begin This Week

By AD CRABLE
New Era Staff Writer

Citing threats to the public and underground water, the U.S. Environmental Protection Agency announced today it would begin cleanup of lead-contaminated soil this week at the former Lancaster Battery Co. on Harrisburg Avenue.

EPA will fund the $550,000 project through its "Superfund," used to clean up hazardous waste sites across the country.

Workmen will arrive on the site at 1230 Harrisburg Ave. Wednesday and begin removing the contaminated soil next week, according to EPA spokesman Ray Germann.

About six inches of soil will be removed in a one-acre open area located behind the building and in narrow strips on each side that separate the firm from Banner Foods and the Parkside Motel, Germann said. The earth removal will take about one month and the total project three months, he said.

The tainted soil will be hauled away to an EPA-approved disposal facility.

In January, the state attorney general charged former Lancaster Battery owner Stuart C. Manix with 39 criminal charges for allegedly dumping lead-contaminated waste onto the field.

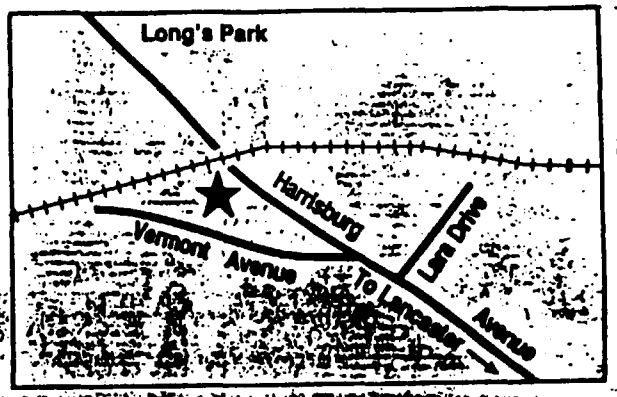
The site is about 100 feet away from the Franklin and Marshall College practice fields and DER will conduct further tests to see if there is a contamination problem there, Germann said.

State prosecutors say Manix, 44, of 1116 Wheatland Ave. illegally dumped the waste 38 times between 1981 and 1986.

The company, which recycled lead batteries for trucks and automobiles, closed in 1986 and was sold to AIN Plastics.

EPA also announced today that the state Department of Environmental Re-

See BATTERY—Page 2



Star marks area on Harrisburg Avenue in Manheim Township where the federal Environmental Protection Agency will begin a "Superfund" cleanup this week of lead-contaminated soil at the site of the former Lancaster Battery Co.

LANCASTER NEW ERA

108th Year — No. 34,444 METROPOLITAN EDITION LANCASTER, PA., MONDAY EVENING, MARCH 16, 1987 Price 30¢ — Daily Home Delivered $1.65 A Week

Battery

(Continued from Page One)

sources had cited Lancaster Battery in 1971 for operating an unpermitted and unlined lagoon used to store battery acid.

The acid wastes were then collected in a holding tank under the present loading dock, neutralized with soda and diverted to the public sewer, EPA said.

Manix is awaiting a preliminary hearing on the criminal charges filed by the state.

EPA said today that 13 of 15 soil tests it did at random spots in the field showed lead levels of 5,000 parts per million — some 25 times above natural background levels.

One sample taken from a homemade dust collector showed lead at 509,000 parts per million.

The levels found at the site pose a threat to humans through ingestion and inhalation of lead-bearing dust, EPA said. Lead poisoning can result in damage to the central nervous system.

A threat also exists through surface water and groundwater contamination, EPA said.

Former Lancaster Battery employees tested recently showed high levels of lead in their blood, according to state prosecutors.

Ten Banner Foods employees were tested but no high lead levels were found, according to Paul Steinmetz, general manager of the firm. One area where soil is to be removed is behind the company where a tin shed still stands.

Under the Superfund program, EPA will try to recover the cost of the cleanup from the former owner.

AR100212

This is the general area behind the former Lancaster Battery Co. where the Environmental Protection Agency will dig up thousands of pounds of soil contaminated ...

EPA Workers Begin Battery Site Cleanup

(Continued from Page One)

suits they wear are standard for those who regularly take such samples.

The tests will include core samples, in which workers bore down a foot or two into the earth, farther than the tests that EPA completed earlier to determine the extent of the contamination.

The additional tests are being done to determine if the original estimate of the volume of soil that has to be removed is accurate, Downie said. Depending on the test results, more or less soil may be taken out of that one-acre area.

Then the backhoes and loaders will move in next week and scrape off the top of the soil. More samples will be taken of the earth that is uncovered, to make sure the contaminated soil is removed.

The dirt will be piled on ground that is already contaminated with lead, and covered to keep dust from blowing.

The EPA will monitor the air for dust, Downie said, and also periodically monitor that dust for lead contamination.

If workers find they are creating a lot of dust, they could spray water on the soil to keep it down, or stop heavy work if the wind gusted high enough to put a great deal of dirt in the air.

The soil will be loaded into drums and sealed. The drums may stay at the site for as long as two months, until the agency locates a disposal site, said agency spokeswoman Nanci Sinclair.

This is a routine procedure, she said. The agency does not obtain a site until the exact amount of material to be disposed is determined.

The site will be regraded, and any shrubbery that is removed will be replaced, Downie said.

The workers also will clean out buildings to rid them of any dust that may be contaminated.

As much as 1,200 tons — 2,400,000 pounds — of dirt could be removed in the process, Downie said.

Thirteen of 15 soil tests EPA originally did at random spots at the site showed lead levels of 5,000 parts per million — some 25 times above natural background levels.

The levels found pose a threat to humans through ingestion and inhalation of lead-bearing dust, EPA said. A threat also exists through surface water and groundwater contamination. Lead poisoning can result in damage to the central nervous system.

Officials this morning emphasized that a person's health would be threatened only by long-term exposure to the lead. The primary concern is "people who are in the area day after day," said Charles Walters, who attended the press conference as a representative of the federal Agency for Toxic Substances and Disease Registry.

The National Institute for Occupational Safety and Health, and the state health department, will conduct voluntary blood tests next week of the 20 or so people employed at the motel and the plastics company, Walters said.

Banner Foods employees already have been tested, and the results were normal, he said. "We expect them (the other employees) to be in normal limits. We really are just doing this as a precaution."

According to state prosecutors involved in the Manix case, former Lancaster Battery employees tested recently showed high levels of lead in their blood.

Manix is awaiting a preliminary hearing on the criminal charges filed by the state.

The state Department of Environmental Resources cited Lancaster Battery in 1971 for operating an unpermitted and unlined lagoon used to store battery acid.

The acid wastes were then collected in a holding tank under the present loading dock, neutralized with soda and diverted to the public sewer, EPA said.

Under the Superfund program, which is used to clean up hazardous waste sites across the country, EPA will try to recover the cost of the cleanup from the former owner.

These workers are taking samples of the soil be the former Lancaster Battery Co. property to check widespread the lead contamination of the soil is. Pre nary work began this morning.

AR10021

EPA Workers Begin Battery Site Cleanup

(Continued from Page One)

These workers are taking samples of the soil behind the former Lancaster Battery Co. property to check how widespread the lead contamination of the soil is. Preliminary work began this morning.

This is the general area behind the former Lancaster [illegible] dig up thousands of [illegible] of soil contaminated with lead. Battery Co. where the Environmental Protection Agency will [illegible]

'ASTER, PA., WEDNESDAY EVENING, MARCH 18, 1987

$550,000 'Superfund' Project Under Way

EPA Team Starts Battery Cleanup Near F&M Field

By STEPHANIE ALEXIEFF
New Era Staff Writer

Environmental Protection Agency officials and workers dressed in trademark white protective suits arrived at the former Lancaster Battery Co. site this morning to begin a cleanup of lead-contaminated soil there.

The $550,000 "Superfund" cleanup started quietly with a pair of workers taking soil samples at the northwest end of Franklin and Marshall College athletic fields behind the 1330 Harrisburg Ave. site.

So far, only safe levels of lead [illegible] been found in the playing [illegible] il, and additional testing is being done as a precaution.

The process will intensify next week, when up to a dozen workers start using backhoe-type equipment and loaders to dig up a minimum of about 6 inches of the contaminated soil.

The soil is located in a one-acre open area behind the battery company building and in narrow strips on each side that separate the firm from Banner Foods and the Parkside Motel.

In January, the state attorney general charged former Lancaster Battery owner Stuart C. Manix with 39 criminal charges for allegedly dumping lead-contaminated waste onto the field.

State prosecutors say Manix, 44, of 1116 Wheatland Ave., illegally dumped the waste 38 times between [illegible] and 1985.

The company, which recycled lead batteries for trucks and automobiles, closed in 1986 and was sold to [illegible] Plastics, which sells plastics from the building.

EPA announced the cleanup [illegible] day. At a news conference [illegible] morning, Jack Downie, the [illegible] coordinator who will be on the scene of the Lancaster cleanup, described the process, which is expected to take about a month, in more detail.

Workers will spend several more days taking additional soil samples, he said. The protective suits they wear are standard for those who regularly take such samples.

The tests will include core samples, in which workers bore down a foot or two into the earth, farther than the tests that EPA completed earlier to determine the extent of the contamination.

The additional tests are being done to determine if the original estimate of the volume of soil that has to be removed is accurate, Downie said. Depending on the test results, more or less soil may be taken out of that one-acre area.

Then the backhoes and loaders will move in next week and scrape off the top of the soil. More samples will be taken of the earth that is uncovered, to make sure the contaminated soil is removed.

The dirt will be piled on ground that is already contaminated with lead, and covered to keep dust from blowing.

The EPA will monitor the air for dust, Downie said, and also periodically monitor that dust for lead contamination.

If workers find they are creating a lot of dust, they could spray water on [illegible] or [illegible] work if [illegible] guard high enough to [illegible] dust of dirt in the air.

The [illegible] will be [illegible] drums [illegible] sealed. The [illegible] may stay at the site for [illegible] two months, until the [illegible] [illegible] spokeswoman Nanci [illegible].

This is a routine [illegible] she said. The agen[illegible] site until [illegible] of materia[illegible] determined [illegible].

The [illegible] any [illegible] will be replaced, Downie said.

The [illegible] out buildings [illegible] of any dust that may be contaminated.

As much as 1,200 tons — 2,400,000 pounds — of dirt could be removed in the process, Downie said.

Thirteen of 15 soil tests EPA originally did at random spots at the site showed lead levels of 5,000 parts per million — some 25 times above natural background levels.

The levels found pose a threat to humans through ingestion and inhalation of lead-bearing dust, EPA said. A threat also exists through surface water and groundwater contamination. Lead poisoning can result in damage to the central nervous system.

Officials this morning emphasized that a person's health would be threatened only by long-term exposure to the lead. The primary concern is "people who are in the area day after day," said Charles Walters, who attended the press conference as a representative of the federal Agency for Toxic Substances and Disease Registry.

The National Institute for Occupational Safety and Health, and the state health department, will conduct voluntary blood [illegible] week or the 20 or so people employed in the motel and the plastics company, Walters said.

Banner Foods employees already have been tested, and the results were normal, he said. "We expect [illegible] (the other employees) to [illegible] normal limits. [illegible] ally [illegible] doing this [illegible] caution."

According to state prosecutors involved in the Manix case, former Lancaster Battery employees tested recently showed high levels of lead in their blood.

Manix is awaiting a preliminary hearing on the criminal charges filed by the state.

The state Department of Environmental Resources [illegible] Battery in 1971 [illegible] permitted and [illegible] store battery [illegible].

The acid wastes were [illegible] collected in a holding tank under the present loading dock, neutralized with soda and diverted to the public sewer, EPA said.

Under the Superfund program, which is used to clean up hazardous waste sites across the country, EPA will try to recover the cost of the cleanup from the former owner.

NEW ERA

AR100216

EPA Begins 'Superfund' Cleanup At Battery Plant

Environmental Protection Agency workers dressed in white protective suits Wednesday began a $550,000 "Superfund" cleanup of lead-contaminated soil at the former Lancater Battery Co.

The cleanup started quietly with a pair of workers taking more soil samples at the northwest end of the Franklin and Marshall College athletic fields behind the former battery firm at 1330 Harrisburg Ave.

Only safe background levels of lead have been found so far in the playing field soil. Additional testing is being done as a precaution.

Next week, up to a dozen workers will start using earth-moving equipment to remove contaminated soil to a depth of at least 6 inches.

The soil is located in a one-acre field behind the battery company building and in narrow strips on each side separating the firm from Banner Foods and the Parkside Motel.

In January, the state attorney general charged former Lancaster Battery owner Stuart [illegible] Manix, 44, of 1116 [illegible] Ave., with [illegible] dumping [illegible] waste onto [illegible] and 1985.

The com[illegible] lead batter[illegible] mobiles [illegible]

[illegible] standard for those [illegible] take such samples.

The tests will include core samples, in which workers bore down one or two feet into the earth. They will determine the accuracy of the original estimate of the volume of soil that needs to be removed.

Backhoes and loaders will move in next week and scrape off the top of the soil. More samples will be taken of the earth that is uncovered to make sure the contaminated soil is removed.

The soil will be loaded into drums and sealed. The drums may stay at the site for as long as two months, until the agency locates a disposal site, said EPA spokesman Nanci Sinclair.

The site will be regraded, and any shrubbery that is removed will be replaced, Downie said.

Workers also will clean out buildings to rid them of dust that may be contaminated.

As much as 1,200 tons — 2.4 million pounds — of dirt could be removed in the process, Downie said.

Thirteen of 15 EPA random soil tests at the site showed lead levels of 5,000 parts per million — 25 times above natural background levels.

Those levels are a threat to people who may ingest or inhale lead-bearing dust, EPA said. A threat also exists from surface water and groundwater contamination. Lead poisoning can damage the central nervous system.

Officials emphasized that a person's health would be threatened only by long-term exposure to the lead.

The primary concern is "people who are in the area day after day," said Charles Walters of the federal Agency for Toxic Substances and Disease Registry.

The National Institute for Occupational Safety and Health and the state health department will conduct voluntary blood tests next week of the roughly 20 people employed at the motel and plastics company, Walters said.

Banner Foods employees have already been tested, and the results were normal, he said.

"We expect them (the other employees) to be in normal limits. We really are just doing this as a precaution."

State prosecutors have said former Lancaster Battery employees tested recently had high lead levels in their blood.

Manix is awaiting a preliminary hearing on the criminal charges filed by the state.

AR100217

Cleanup Nearly Done At Site Of Battery Co.

By Leslie [illegible]
Intelligencer [illegible]

The first pha[illegible] federal "Superfund" cleanup at the former Lancaster Batte[illegible] is expected to be completed by the end of the week.

Excavation of [illegible] of lead-contaminated soil [illegible] be finished in the next couple of days, Nancy Sinclair, a spokeswoman for the U.S. Environmental Protection Agency, said Thursday.

EPA will not have a disposal site for perhaps [illegible], she said. The soil [illegible] must be analyzed and find an appropriate facility found that is willing to take that large amount of soil.

The dirt, piled in a wide mountain by the former battery company site at 1830 Harrisburg Ave., will be covered with white plastic until it is hauled away, Sinclair said.

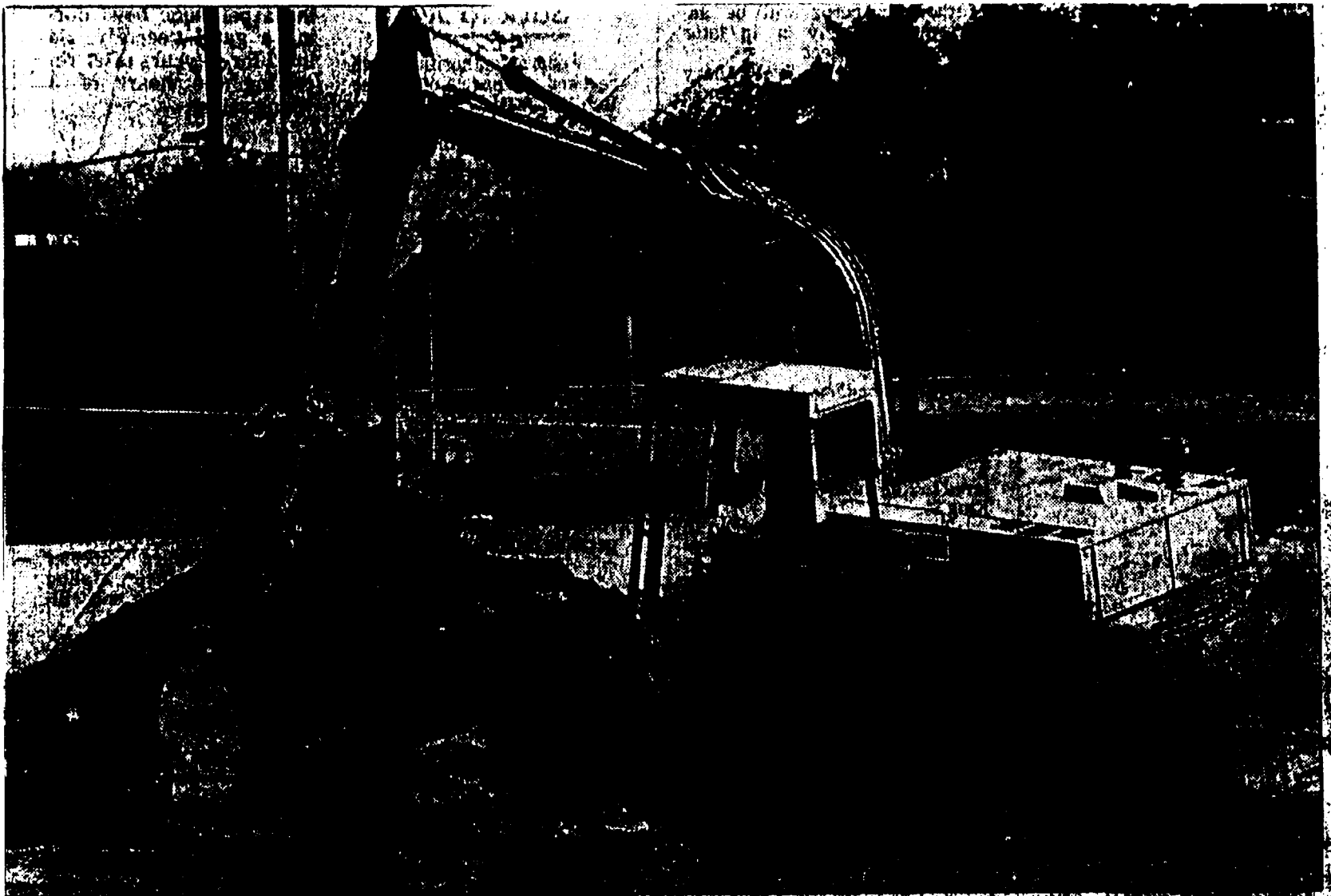
[illegible] blood tests were performed Tuesday on workers at the nearby Parkside Motel and AIN Plastics, which has moved into the battery company building, she said. The tests will determine whether the workers have high lead levels in their blood.

The results are expected in three weeks, the EPA spokesman said.

"Superfund" is EPA's program to clean up hazardous wa[illegible] sites across the country.

In January, the state attorn[illegible] general filed 39 criminal charg[illegible] against former Lancaster Batte[illegible] owner Stuart C. Manix for dum[illegible] ing lead-contaminated waste [illegible] the field 38 times between 19[illegible] and 1985 and for allowing le[illegible] dust to overflow on the grou[illegible] outside the plant.

AR100218



EPA Begins Taking Soil from Harrisburg Ave. Battery Site

[illegible]

The U.S. Environmental Protection Agency [illegible] began removing 1,000 tons of lead-contaminated soil from the former Lancaster Battery Co. on Harrisburg Avenue as part of the final phase of a hazardous waste cleanup operation.

By 9 a.m., the backhoe pictured here had [illegible] about 100 tons of dirt onto [illegible] trucks licensed by the [illegible] to haul the material to a hazardous waste accepting facility in Fort Wayne, Ind.

About 10 trucks will be loaded a day, meaning the removal should be completed in eight to 10 days, according to EPA spokeswoman Nanci Sinclair.

Since the cleanup began in mid-March, the EPA has scraped about 3 feet of soil contaminated by lead from around the site at 1350 Harrisburg Ave. The dirt has been stored in a pile in a restricted area and covered with a special plastic.

"The immediate health threat is gone once the soil is out of here," Ms. Sinclair said today.

The EPA is sampling the soil remaining under the excavated area to determine if there is still lead in it and whether groundwater monitoring [illegible] are needed, but officials be[illegible] they have removed the contaminants, she said.

The site where the soil was removed has been graded. She added that tests found no lead in the soil of the adjacent Franklin and Marshall College practice fields.

About 20 workers in the area submitted to blood tests arranged by the EPA. None was found to

—See EPA TAKES—Page 4

EPA Takes

(Continued from Page One)

have elevated levels.

Two former employees [illegible] Lancaster Battery are suing th[illegible] company and its former owne[illegible] Stuart C. Manix, charging th[illegible] tests showing they had lead po[illegible]soning were withheld betwe[illegible] 1982 and 1985.

Manix is scheduled to appe[illegible] at a preliminary hearing on Ju[illegible] 8 in Lancaster on 38 charges rela[illegible]ed to illegal dumping of le[illegible] waste at the site.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. P·A·P·0·0·0·2·1·2·6 Manifest Document No. 0000·7
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address USEPA REGION 3
841 Chestnut Building
Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number INA 0109622
B. State Generator's ID

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P·A·D·0·0·8·7·8·1·0·7·2
C. State Transporter's ID
D. Transporter's Phone 215-385-3051

7. Transporter 2 Company Name: Horwith Trucks Inc
8. Use EPA ID Number: P·A·D·0·6·4·0·3·5·8·1·9
E. State Transporter's ID PAAN 0176
F. Transporter's Phone 215-261-2220

9. Designated Facility Name and Site Address
Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6
G. State Facility's ID
H. Facility's Phone 219-447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ EPA D008)	001	DT	4274.0	P	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

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MAY 20 1987
EPA, R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

15. Special Handling Instructions and Additional Information
Profile # OHM G59797 PO # J4643E30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name | Signature | Date Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JACK L. Downie | Signature: Jack L. Downie | Date Month 05 Day 12 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: LeRoy Miller | Signature: LeRoy Miller | Date Month 05 Day 12 Year 87

19. Discrepancy Indication Space
NONE
43720 # used
MAY 26 1987
AR100220

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [illegible] | Signature: [illegible] | Month 05 Day 13 Year 87

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

DISTRIBUTION:
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PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

GENERATOR
TRANSPORTER
FACILITY

se of a spill call Indiana Office of Environmental Response 7/243-5155 (day), or 317/633-0144 (night) and the
onal Response Center at 800/424-8802 or 202/426-2675.

INA 0109622

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. P·A·P·0·0·0·0·0·2·1·2·6 Manifest Document No. 0·0·0·0·8

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address USEPA REGION 3, 841 Chestnut Building Philadelphia, Pa 19107

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number INA 0109623

B. State Generator's ID

5. Transporter 1 Company Name John Pfrommer Inc

6. Use EPA ID Number P·A·D·0·0·8·7·8·1·0·7·2

C. State Transporter's ID

D. Transporter's Phone 215 385 3051

7. Transporter 2 Company Name Horwith Trucks Inc.

8. Use EPA ID Number P·A·D·0·6·4·0·3·5·8·1·9

E. State Transporter's ID PAAH 0176

F. Transporter's Phone 215 261 2220

9. Designated Facility Name and Site Address Chemical Waste Management 4636 Adams Center Road Fort Wayne, In 46806

10. Use EPA ID Number I·N·D·0·7·8·9·1·1·1·4·6

G. State Facility's ID

H. Facility's Phone 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	001	DT	40140	P	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

a) Contains Lead

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Profile # 04MG59797 P.O.# J4643E30038

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GENERATOR

Printed/Typed Name: Jack L Downie Signature: Jack L. Downie Date: Month 05 Day 12 Year 87

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Signature: Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Joe Rushing III Signature: Joe Rushing III Date: Month 05 Day 12 Year 87

FACILITY

19. Discrepancy Indication Space

None

41100 # only

MAY 26 1987

AR100221

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.

Printed/Typed Name: Sandy Hathaway Signature: Date: Month 05 Day 13 Year 87

GENERIC APPROVAL ADAMS CENTER LANDFILL

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INA 0109623

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

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Previous editions are obsolete.
State Form 11865

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PAGE 6 (canary) GENERATOR COPY
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PAGE 8 (white) TRANSPORTER 2 COPY

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OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. P.A.P.0.0.0.0.0.2.1.2.6
Manifest Document No. 0.0.0.1.3
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address USEPA REGION 3
841 Chestnut Building
Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number INA 0109625
B. State Generator's ID

5. Transporter 1 Company Name John Pfrommer Inc
6. Use EPA ID Number P.A.D.0.0.8.7.8.1.0.7.2
C. State Transporter's ID
D. Transporter's Phone 215 385 3051

7. Transporter 2 Company Name Horwith Trucks Inc
8. Use EPA ID Number P.A.D.0.6.4.0.3.5.8.1.9
E. State Transporter's ID PA AH 0176
F. Transporter's Phone 215 261 2220

9. Designated Facility Name and Site Address
Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number I.N.D.0.7.8.9.1.1.1.4.6
G. State Facility's ID
H. Facility's Phone 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S. ORM-E NA 9189 (RQ-EPA D008)	0.0.1	DT	4.1.5.7.0	P	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

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GENERIC APPROVAL
ADAMS CENTER LANDFILL

15. Special Handling Instructions and Additional Information
Profile # OHM G 59797 PO# 4643E 30038

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Printed/Typed Name: JACK L. DOWNIE
Signature: Jack L. Downie
Date: Month 05 Day 11 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Thomas R. Markley
Signature
Date: Month 5 Day 13 Year 87

19. Discrepancy Indication Space
None
4142 cf #2 ret
MAY 26 1987
AR100222

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name
Signature
Date: Month 05 Day 14 Year 87

GENERATOR
TRANSPORTER
FACILITY

INA 0109625

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Previous editions are obsolete.
State Form 11865

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PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P.A.P.0.0.0.0.0.2.1.2.6 — Manifest Document No.: 0.0.0.1.5
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site
5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P.A.D.0.0.8.7.8.1.0.7.2
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

A. State Manifest Document Number: INA 0109628
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ EPA D008)	0.0.1	DT	4.1.2.3.0	P	D008
b.					
c.					
d.					

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PA SECTION
MAY 20 1987
EPA, R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead

K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information

Profile # OHMG59797 PO# J4643E30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: JACK L. Downie — Signature: Jack L Downie — Date: Month 05 Day 13 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Edward Hale — Signature: Edward Hale — Date: Month 5 Day 13 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space: No Mp
40800 # - red
MAY 26 1987
AR100223

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy Antmaette — Signature: [signature] — Date: Month 05 Day 14 Year 87

GENERATOR / TRANSPORTER / FACILITY

INA 0109628

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 1 (white) TSD MAIL TO GENERATOR
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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-88*

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·0·2·1·2·6 — Manifest Document No.: 0·0·0·1·6
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0109629
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P·A·D·0·0·8·7·8·1·0·7·2
7. Transporter 2 Company Name:
8. Use EPA ID Number:

9. Designated Facility Name and Site Address:
Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ EPA D008)	0·0·1	D·T	3·7·3·0·0	P	D008
b.					
c.					
d.					

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PA SECTION
MAY 20 1987
EPA, R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Profile # 04MG59797 PO# J4643E30038

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Printed/Typed Name: Jack L. Downie — Signature: Jack L. Downie — Date: Month 0·5 Day 1·3 Year 8·7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jeffrey W Montgomery — Signature: Jeffrey W Montgomery — Date: Month ·5 Day 1·3 Year 8·7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month · Day · Year ·

19. Discrepancy Indication Space
None
37260# [illegible]

MAY 26 1987
AR100224

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [illegible] — Signature: [illegible] — Month 05 Day 14 Year 87

GENERATOR / TRANSPORTER / FACILITY

INA 0109629

In [illegible] of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the N[illegible]l Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-88*

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P.A.P.0.0.0.0.0.2.1.2.6 — Manifest Document No.: 0.0.0.1.7
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site
5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P.A.D.0.0.8.7.8.1.0.7.2
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

A. State Manifest Document Number: INA 0109630
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	0.0.1	DT	4.0.0.2.0	P	D008
b.					
c.					
d.					

RECEIVED PA SECTION MAY 20 1987 EPA, R3

J. Additional Descriptions for Materials Listed Above: a) Contains Lead

K. Handling Codes for Wastes Listed Above:

GENERIC APPROVAL ADAMS CENTER LANDFILL

15. Special Handling Instructions and Additional Information: Profile # OHMG59797 PO # J4[illegible]

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Printed/Typed Name: JACK L. DOWNIE — Signature: [signature] — Date: Month 05 Day 13 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger D Purbaugh — Signature: [signature] — Date: Month 05 Day 13 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space: None
40 [illegible]

MAY 26 1987 AR100222

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: SANDY [illegible] — Signature: [signature] — Month 05 Day 13 Year 87

INA 0109630

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

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PAGE 6 (canary) GENERATOR COPY
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PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P.A.P.0.0.0.0.0.2.1.2.6 — Manifest Document No.: 0.0.0.1.8
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271

A. State Manifest Document Number: INA 0109631
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID: PA AH 0176
F. Transporter's Phone: 215 261 2220
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P.A.D.0.0.8.7.8.1.0.7.2
7. Transporter 2 Company Name: Horwith Trucks Inc
8. Use EPA ID Number: P.A.D.0.6.4.0.3.5.8.1.9
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ EPA D008)	0.01	DT	4.4.4.1.0	P	D008
b.					
c.					
d.					

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MAY 20 1987
EPA, R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead

K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information: Profile # OHM G 59797 PO# 4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: JACK L. Downie — Signature: Jack L. Downie — Date: Month 05 Day 13 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: HAROLD ZIEGENFUS — Signature: [signature] — Date: Month 05 Day 13 Year 87

19. Discrepancy Indication Space: None
45020 # ONLY

MAY 26 1987
AR100226

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: SANDY H. [illegible] — Signature: [signature] — Month 05 Day 14 Year 87

GENERATOR — TRANSPORTER — FACILITY

INA 0109631

In[illegible] of a spill call Indiana Office of Environmental Response at 3[illegible]/243-5155 (day), or 317/633-0144 (night) and the N[illegible]l Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

VOID

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE *(Form designed for use on elite (12-pitch) typewriter.)* Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P.A.P.0.0.0.0.0.2.1.2.6 — Manifest Document No.: 0.0.0.1.9
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0109632
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P.A.D.0.0.8.7.8.1.0.7.2
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ. EPA D008)	0.0.1	D.T			D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: a) Contains Lead

K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information: Profile # OHMG59797 PO# 4643E30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: | Signature: | Month | Day | Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JACK L. Downie | Signature: [signature] | Month 05 | Day 13 | Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: | Signature: | Month | Day | Year

GENERATOR — TRANSPORTER — FACILITY

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INA 0109632

AR1002

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P.A.P.0.0.0.0.0.2.1.2.6 — Manifest Document No.: 0.0.0.2.0
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0109633
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P.A.D.0.0.8.7.8.1.0.7.2
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S. ORM-E NA9189 (RQ EPA D008)	0.0.1	DT	3.8.2.8.0	P	D008
b.					
c.					
d.					

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MAY 20 1987
EPA, R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Profile # OHMG 59797 PO# 4643E 30038

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Printed/Typed Name: JACK L. Downie — Signature: Jack L. Downie — Date: Month 05 Day 13 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: RALPH REIKING — Signature: Ralph Reiking — Date: Month 05 Day 13 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
None
38260# - ni
MAY 26 1987
AR100228

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [illegible] — Signature: [illegible] — Month 05 Day 14 Year 87

GENERATOR / TRANSPORTER / FACILITY

INA 0109633

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P.A.P.0.0.0.0.0.2.1.2.6 — Manifest Document No.: 0.0.0.2.1
2. Page 1 of 1

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6. Use EPA ID Number: P.A.D.0.0.8.7.8.1.0.7.2
7. Transporter 2 Company Name: Horwith Trucks Inc
8. Use EPA ID Number: P.A.D.0.6.4.0.3.5.8.1.9
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

A. State Manifest Document Number: INA 0109634
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID: PA AH 0176
F. Transporter's Phone: 215 261 2220
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	0.0.1	D.T	4.4.3.1.0	P	D008
b.					
c.					
d.					

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EPA, R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information

Profile # OHMG 59797 PO# 4643E 30038

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Printed/Typed Name: JACK L. DOWNIE — Signature: Jack L. Downie — Date: Month 05 Day 13 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Clinton Haldeman — Signature: Clinton Haldeman — Date: Month 5 Day 13 Year 87

19. Discrepancy Indication Space
None
447-40 Forms

MAY 26 1987 AR10022

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: SANDI HETMALTER — Signature: [signature] — Month 05 Day 14 Year 87

GENERATOR / TRANSPORTER / FACILITY

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INA 0109634

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PAGE 2 (goldenrod) GENERATOR MAIL TO GENERATOR STATE
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PAGE 4 (light pink) OUT OF STATE GENERATOR/TSD MAIL TO IDEM
PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE *(Form designed for use on elite (12-pitch) typewriter.)* Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P.A.P.0.0.0.0.0.2.1.2.6 — Manifest Document No.: 0.0.0.2.2
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0109635
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID: PAAH 0176
F. Transporter's Phone: 215 261 2220
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P.A.D.0.0.8.7.8.1.0.7.2
7. Transporter 2 Company Name: Horwith Trucks Inc
8. Use EPA ID Number: P.A.D.0.6.4.0.3.5.8.1.9
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S. ORM-E NA9189 (RQ, EPA D008)	0.0.1	DT	4.2.8.8.0	P	D008
b.					
c.					
d.					

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EPA, R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information: Profile # OHMG59797 PO# J4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: JACK L. DOWNIE — Signature: Jack L. Downie — Date: Month 05 Day 1 Year 3 8 7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: RICHARD HAUSMAN — Signature: Richard Hausman — Date: Month 05 Day 1 Year 3 8 7

19. Discrepancy Indication Space: None 42440 # and

MAY 26 1987 AR100230

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [illegible] — Signature: [illegible] — Month 05 Day 14 Year 87

GENERATOR / TRANSPORTER / FACILITY

In case of a spill call Indiana Office of Environmental Response at 317/633-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

INA 0109635

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

DISTRIBUTION:
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PAGE 2 (goldenrod) GENERATOR MAIL TO GENERATOR STATE
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PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY

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SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

VOID

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. P.A.P.0.0.0.0.2.1.2.6 Manifest Document No. 000071

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address USEPA REGION 3, 841 Chestnut Building Philadelphia, Pa. 19107

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number INA 0109639

B. State Generator's ID

5. Transporter 1 Company Name John Pfrommer Inc

6. Use EPA ID Number P.A.D.0.0.8.7.8.1.0.7.2

C. State Transporter's ID

D. Transporter's Phone 215-385-3051

7. Transporter 2 Company Name

8. Use EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address Chemical Waste Management 4636 Adams Center Road Fort Wayne, In 46806

10. Use EPA ID Number I.N.D.0.7.8.9.1.1.1.4.6

G. State Facility's ID

H. Facility's Phone 219-447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ EPA D008	001	DT	37990		D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

a) Contains Lead

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Profile # OHM G59797 P.O. # J4643E-30038

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GENERATOR

Printed/Typed Name: JACK L. Downie Signature: [signature] Date: Month 05 Day 12 Year 87

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.

Printed/Typed Name Signature Date: Month Day Year

AR100231

INA 0109639

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. P A P 0 0 0 0 2 1 2 6 Manifest Document No. 0 0 0 0 2

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address USEPA REGION 3
841 Chestnut Building
Philadelphia, Pa. 19107

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number INA 0109640

B. State Generator's ID

5. Transporter 1 Company Name John Pfrommer, Inc

6. Use EPA ID Number P A D 0 0 8 7 8 1 0 7 2

C. State Transporter's ID 0042

D. Transporter's Phone 215-385 3051

7. Transporter 2 Company Name

8. Use EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806

10. Use EPA ID Number I N D 0 7 8 9 1 1 1 4 6

G. State Facility's ID

H. Facility's Phone 219-447-5595

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	001	DT	23 ~~22.84~~	T	D008
b.					
c.					
d.					

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J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Profile # OHMG59797 PO# J4643E-30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: JACK L. Downie — Signature: Jack L. Downie — Date (Month Day Year): 05 12 87

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LARRY Rhodes — Signature: Larry Rhodes — Date (Month Day Year): 05 12 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year):

FACILITY

19. Discrepancy Indication Space
None
4 drums

MAY 26 1987 AR100232

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: SANDY Hutsette — Signature — NO. COMPL. & MONT. — Date (Month Day Year): 05 13 87

INA 0109640

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 3 (light green) TSD MAIL TO TSD STATE
PAGE 4 (light pink) OUT OF STATE GENERATOR/TSD MAIL TO IDEM
PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

In case of a spill call Indiana Office of Environmental Response at 243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P.A.P.000002.1.2.6 — Manifest Document No.: 00003
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law. Items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271

A. State Manifest Document Number: INA 0109641
B. State Generator's ID:

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P.A.D.0.0.8.7.8.1.0.7.2
C. State Transporter's ID:
D. Transporter's Phone: 215-385-3051

7. Transporter 2 Company Name: Horwith Trucks Inc
8. Use EPA ID Number: P.A.D.0.6.4.0.3.5.8.1.9
E. State Transporter's ID: PAAH 0176
F. Transporter's Phone: 215-261-2220

9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, Ind 46806
10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S. ORM-E NA9189 (RQ EPA D008)	001	DT	~~21.88~~ 22	T	D008
b.			per Generator		
c.					
d.					

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GENERIC APPROVAL ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead

Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information

Profile # OHM 6 59797 P.O. # J4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: JACK L. Downie — Signature: Jack L. Downie — Date: Month 05 Day 12 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: MARTIN SCHOCH — Signature: Martin Schoch — Date: Month 05 Day 12 Year 87

19. Discrepancy Indication Space: None
4566 Otto Rd

MAY 26 1987 AR100283 DIV. OF COMPL. & MONIT.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: S Andy Hutmacher — Signature: [signature] — Month 05 Day 12 Year 87

GENERATOR / TRANSPORTER / FACILITY

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

INA 0109641

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P.A.P.0.0.0.0.0.2.1.2.6 — Manifest Document No.: 0.0.0.0.4
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa 19107

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0109642
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID: PAAH 0176
F. Transporter's Phone: 215 261 2220
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P.A.D.0.0.8.7.8.1.0.7.2
7. Transporter 2 Company Name: Horwith Trucks Inc
8. Use EPA ID Number: P.A.D.0.6.4.0.3.5.8.1.9
9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S. ORM-E NA 9189 (RQ EPA D008	001	DT	~~20.25~~ 20	T	D008
b.					
c.					
d.					

RECEIVED PA SECTION MAY 20 [illegible] EPA, R3

GENERIC APPROVAL ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Profile # OHM G59797 P.O. # J4643E30038

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Printed/Typed Name: JACK L. DOWNIE — Signature: Jack L. Downie — Date: Month 05 Day 12 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: EARL KUNKEL — Signature: Earl Kunkel — Date: Month 05 Day 12 Year 87

19. Discrepancy Indication Space
None
40700 thousand

MAY 26 1987 00234

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [illegible] — Signature: [illegible] — Date: Month 05 Day 12 Year 87

GENERATOR / TRANSPORTER / FACILITY

INA 0109642

In case of a spill call Indiana Office of Environmental Response at 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
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State Form 11865

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PAGE 7 (white) TRANSPORTER 1 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·0·2·1·2·6 — Manifest Document No.: 0·0·0·0·5
2. Page 1 of 1 — Information in the shaded areas not required by Federal law. Items D, F, H and I are required State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa 19107

4. Generator's Phone: (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0109643
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215-385-3051
E. State Transporter's ID: PAAH 0176
F. Transporter's Phone: 215 261 2220
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P·A·D·0·0·8·7·8·1·0·7·2
7. Transporter 2 Company Name: Horwith Trucks Inc
8. Use EPA ID Number: P·A·D·0·6·4·0·3·5·8·1·9
9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	0·0·1	DT	3·8·7·1·0	P	D008
b.					
c.					
d.					

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EPA, R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
Profile # OHM G59797 PO# J4643E 30038

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Printed/Typed Name: JACK L. Downie — Signature: Jack L. Downie — Date: Month 05 Day 12 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: NORMAN P. RICE — Signature: Norman P. Rice — Date: Month 05 Day 12 Year 87

19. Discrepancy Indication Space
NONE
37420 #s red

MAY 26 1987 AR100235

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: SANDY Hartmacher — Signature: Sandy Hartmacher — Month 05 Day 13 Year 87

INA 0109643

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

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PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY

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OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
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UNIFORM HAZARDOUS WASTE MANIFEST

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2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa. 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0109645
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P.A.D.0.0.8.7.8.1.0.7.2
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008	0.0.1	D.T	20 ~~20.2.2~~	T	D008
b.			per Generator		
c.					
d.					

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MAY 20 1987
EPA, R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
Profile # OHM G59797 PO# J4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: JACK L. Downie — Signature: Jack L. Downie — Date: Month 05 Day 1.2 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JOHN L CUPP — Signature: John L Cupp — Date: Month 05 Day 1.2 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space: None
41340# [illegible]

MAY 26 1987 AR100236

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [illegible] — Signature: [illegible] — Month 05 Day 1.3 Year 87

GENERATOR / TRANSPORTER / FACILITY

INA 0109645

In case of a spill call Indiana Office of Environmental Response at 317/633-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.

DISTRIBUTION:
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PAGE 2 (goldenrod) GENERATOR MAIL TO GENERATOR STATE
PAGE 3 (light green) TSD MAIL TO TSD STATE
PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE *(Form designed for use on elite (12-pitch) typewriter.)* Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·0·2·1·2·6
Manifest Document No.: 0·0·0·1·0
2. Page 1 of 1
Information in the shaded area not required by Federal law. Items D, F, H and I are required State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0109646
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID: PA AH 0176
F. Transporter's Phone: 215 261 2220
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P·A·D·0·0·8·7·8·1·0·7·2
7. Transporter 2 Company Name: Horwith Trucks Inc
8. Use EPA ID Number: P·A·D·0·6·4·0·3·5·8·1·9
9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid NOS., ORM-E NA 9189 (RQ, EPA D008)	00·1	D·T	4·3·5·2·0	P	D008
b.					
c.					
d.					

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MAY 20 1987
EPA, R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Profile #OHMG59797 PO# J4643E 30038

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Printed/Typed Name: | Signature: | Date Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JACK L. DOWNIE | Signature: Jack L. Downie | Date Month Day Year: 0·5 1·2 8·7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lloyd Peters | Signature: [signature] | Date Month Day Year: 0·5 1·2 8·7

19. Discrepancy Indication Space
None
43700 # ONLY

MAY 26 1987 AR100237

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy Hetmaher | Signature: [signature] | Month Day Year: 1·5 1·3 8·7

GENERATOR / TRANSPORTER / FACILITY

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

INA 0109646

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.

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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. P.A.P.0.0.0.0.0.2.1.2.6
Manifest Document No. 00.0.1.1
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa. 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number INA 0109647
B. State Generator's ID

5. Transporter 1 Company Name John Pfrommer Inc
6. Use EPA ID Number P.A.D.0.0.8.7.9.1.0.7.2
C. State Transporter's ID
D. Transporter's Phone 215 385 3051

7. Transporter 2 Company Name Horwith Trucks Inc
8. Use EPA ID Number P.A.D.0.6.4.0.3.5.8.1.9
E. State Transporter's ID PAAH 0176
F. Transporter's Phone 215 261 2220

9. Designated Facility Name and Site Address
Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number I.N.D.0.7.8.9.1.1.1.4.6
G. State Facility's ID
H. Facility's Phone 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA 9189 (RQ, EPA D008)	00.1	DT	4.1.5.7.0	P	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Profile # OHM C 59797 P.O. # J4643E 30038

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GENERATOR — Printed/Typed Name: JACK L. Downie — Signature: Jack L. Downie — Date: Month 5 Day 21 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
TRANSPORTER — Printed/Typed Name: — Signature: — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
TRANSPORTER — Printed/Typed Name: LONNY J BRYFOGLE — Signature: Lonny J. Bryfogle — Date: Month 5 Day 21 Year 87

19. Discrepancy Indication Space
No Net
4220 ot = net.
MAY 26 1987
AR100238

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
FACILITY — Printed/Typed Name: [illegible] — Signature: [illegible] — Date: Month 5 Day 21 Year 87

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MAY 20 1987
EPA, R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

INA 0109647

In the event of a spill call Indiana Office of Environmental Response at 243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

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PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. P A P 0 0 0 0 0 2 1 2 6 | Manifest Document No. 0 0 0 0 9

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa 19107

A. State Manifest Document Number INA 0109649

B. State Generator's ID

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

5. Transporter 1 Company Name: John P Grammer Inc
6. Use EPA ID Number: P A D 0 0 8 7 8 1 0 7 2

C. State Transporter's ID

D. Transporter's Phone 215 385 3051

7. Transporter 2 Company Name: Horwith Trucks Inc
8. Use EPA ID Number: P A D 0 6 4 0 3 5 8 1 9

E. State Transporter's ID PA AH 0176

F. Transporter's Phone 215-261-2220

9. Designated Facility Name and Site Address
Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EP A ID Number: I N D 0 7 8 9 1 1 1 4 6

G. State Facility's ID

H. Facility's Phone 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ EPA D008)	001	DT	43360	P	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Profile # OHM G59797 PO# J4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jack L. Downie | Signature: Jack L. Downie | Date Month 05 Day 26 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: I SANTEE | Signature | Date Month 05 Day 28 Year 87

19. Discrepancy Indication Space
None
43760 # found

MAY 26 1987 AR10023

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Nancy Hathaway | Signature | Date Month 05 Day 13 Year 87

GENERATOR
TRANSPORTER
FACILITY

GENERIC APPROVAL
ADAMS CENTER LANDFILL

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INA 0109649

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

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Previous editions are obsolete.
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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: PA·P·0·0·0·0·2·1·2·6 — Manifest Document No.: 0·0·0·3·9
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site
5. Transporter 1 Company Name: Horwith Trucking
6. Use EPA ID Number: P·A·D·0·6·4·0·3·5·8·1·9
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6

A. State Manifest Document Number: INA 0109659
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 800 443 5327
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	0·0·1	DT	2·0	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: a) Contains Lead

GENERIC APPROVAL
ADAMS CENTER LANDFILL

15. Special Handling Instructions and Additional Information
w/O# 45011
Profile# OHMG 59797 PO# J4643E 30038 Arrive 5/19/87 0900

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Date: Month 0·5 Day 1·8 Year 8·7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: RICHARD HAUSMAN — Signature: Richard Hausman — Date: Month 0·5 Day 1·8 Year 8·7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
& none met 41760

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tracey Williams — Signature: Tracey Williams — Date: Month 0·5 Day 1·9 Year 8·7

INA 0109659

AR100240

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-86) Previous editions are obsolete. Form 11865

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PAGE 8 (white) TRANSPORTER 2 COPY

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: PAP000002126 — Manifest Document No.: 00040
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law. Items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone: (304) 233-1271 Lancaster Battery Site
5. Transporter 1 Company Name: Horwith Trucking
6. Use EPA ID Number: PAD064035819
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: IND078911146

A. State Manifest Document Number: INA 0109660
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 800 443 5327
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	001	DT	* 20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

GENERIC APPROVAL
ADAMS CENTER LANDFILL

15. Special Handling Instructions and Additional Information
W/O # 45012
Profile # OHMG 59797 PO # J4643E 30038 Arrive 5/19/87 0920

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Date: Month 05 Day 18 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MARTIN N BOLLINGER — Signature: Martin N Bollinger — Date: Month 5 Day 18 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
None
* 42800# [illegible]

AR1002

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [illegible] — Signature: [illegible] — Date: Month [illegible] Day [illegible] Year [illegible]

GENERATOR — TRANSPORTER — FACILITY

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

INA 0109660

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State Form 11865

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·2·1·2·6 — Manifest Document No.: 0·0·0·4·1
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0109661
B. State Generator's ID:
C. State Transporter's ID: 0042
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc.
6. Use EPA ID Number: P·A·D·0·0·8·7·8·1·0·7·2
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S. ORM-E NA9189 (RQ EPA D008)	0·0·1	D·T	K ·2·0	Y	D008
b.					
c.					
d.					

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
W/O # 45013
Profile # 04MG 59797 PO# J4643E 30038 Arrive 5/19/87 0940

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Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Date: Month 0·5 Day 1·8 Year 8·7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: William T. Hall — Signature: William T. Hall — Date: Month 0·5 Day 1·8 Year 8·7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space: Nony
X 37700 # [illegible]

AR100242

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [illegible] — Signature: [illegible] — Month 0·5 Day 1·8 Year 8·7

GENERATOR — TRANSPORTER — FACILITY

INA 0109661

EPA Form 8700-22 (Rev. 9-86)
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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

In case of a spill call Indiana Office of Environmental Response at 800/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-88*

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: PAP000021216
Manifest Document No.: 00042
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but Items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa 19107
4. Generator's Phone: (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0109662
B. State Generator's ID

5. Transporter 1 Company Name: Horwith Trucking
6. Use EPA ID Number: PAD064035819
C. State Transporter's ID
D. Transporter's Phone: 215 261 2220

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: IND078911146
G. State Facility's ID
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above:

GENERIC APPROVAL
ADAMS CENTER LANDFILL

15. Special Handling Instructions and Additional Information
W/O # 45014
Profile # OHMC 59797 PO # 4643E30038 Arrive 5/19/87 1000

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Philip C. Younis
Signature: Philip C. Younis
Date: Month 05 Day 18 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Thomas R. Hobley
Signature:
Date: Month 5 Day 18 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
NONE
4374 0 ttls lea
AR100243

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name:
Signature:
Date: Month 5 Day 20 Year 87

GENERATOR / TRANSPORTER / FACILITY

INA 0109662

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

DISTRIBUTION:
PAGE 1 (white) TSD MAIL TO GENERATOR
PAGE 2 (goldenrod) GENERATOR MAIL TO GENERATOR STATE
PAGE 3 (light green) TSD MAIL TO TSD STATE
PAGE 4 (light pink) OUT OF STATE GENERATOR/TSD MAIL TO IDEM
PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: PA.P.0.0.0.0.0.2.1.2.6 — Manifest Document No.: 0.0.0.4.3
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site
A. State Manifest Document Number: INA 0109663
B. State Generator's ID:
5. Transporter 1 Company Name: Horwith Trucking
6. Use EPA ID Number: P.A.D.0.6.4.0.3.5.8.1.9
C. State Transporter's ID:
D. Transporter's Phone: 215 261 2220
7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: IN.D.0.7.8.9.1.1.1.4.6
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	00.1	DT	~~X~~ 2.0	Y	D008
b.					
c.					
d.					

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
w/o # 45350
Profile # OHM 6 59797 PO# J4643E 30038 Arrive 5/19/87 1020

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Date: Month 0.5 Day 1.8 Year 8.7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Greg Ziegenfus — Signature: Greg Ziegenfus — Date: Month 0.5 Day 1.8 Year 8.7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
Navy
~~X~~ 40540# [illegible]

AR100244

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy Arthaeter — Signature: [illegible] — Month 05 Day 19 Year 87

GENERATOR / TRANSPORTER / FACILITY

INA 0109663

...e of a spill call Indiana Office of Environmental Response at ...7/243-5155 (day), or 317/633-0144 (night) and the ...al Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: PAP000002126 — Manifest Document No.: 00044
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law. Items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa. 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site
5. Transporter 1 Company Name: John Pfrommer Trucking
6. Use EPA ID Number: PAD008781072
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: IND078911146

A. State Manifest Document Number: INA 0109665
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	001	DT	2.0	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: a) Contains Lead

K. Handling Codes for Wastes Listed Above:

GENERIC APPROVAL
ADAMS CENTER LANDFILL

15. Special Handling Instructions and Additional Information
W/O# 45351
Profile #OHMG 59797 PO# J4643E 30038 Arrive 5/19/87 1040

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Date: Month 05 Day 18 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Loren O Campbell — Signature: Loren O Campbell — Date: Month 05 Day 18 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
NONE
42700#

AR100245

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy Hartman — Signature: [signature] — Month 05 Day 18 Year 87

GENERATOR / TRANSPORTER / FACILITY

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

INA 0109665

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COP

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. PA P 0 0 0 0 2 1 2 6 Manifest Document No. 0 0 0 4 5

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address USEPA REGION 3
841 Chestnut Building
Philadelphia, Pa 19107

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number INA 0109666

B. State Generator's ID

5. Transporter 1 Company Name John P Fromm Trucking

6. Use EPA ID Number P A D 0 0 8 7 8 1 0 7 2

C. State Transporter's ID

D. Transporter's Phone 215 385 3051

7. Transporter 2 Company Name

8. Use EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806

10. Use EPA ID Number I N D 0 7 8 9 1 1 1 4 6

G. State Facility's ID

H. Facility's Phone 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ EPA D008)	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

GENERIC APPROVAL
ADAMS CENTER LANDFILL

15. Special Handling Instructions and Additional Information
w/O # 45352
Profile # OHMB 59797 PO # J4643E 30038 Arrive 5/19/87 1100

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis Signature: Philip C. Younis Date: Month 05 Day 18 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Charlie Baker Signature: Charlie Baker Date: Month 05 Day 18 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space
NONE
42960 # 5 ml
AR100246

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Signature: Month Day Year

GENERATOR
TRANSPORTER
FACILITY

INA 0109666

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·2·1·2·6
Manifest Document No.: 0·0·0·4·6
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0109667
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 261 2220
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: Horwith Trucking
6. Use EPA ID Number: P·A·D·0·6·4·0·3·5·8·1·9
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA 9189 (RQ, EPA D008)	0·0·1	DT	* 2·0	Y	D008
b.					
c.					
d.					

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above:
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
W/O # 45353
Profile # OHMG 59797 PO # J4643E 30038 Arrive 5/19/87 1120

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis
Signature: Philip C. Younis
Month 0·5 Date Day 1·8 Year 8·7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DANIEL W. Pfeifly
Signature: Daniel W Pfeifly
Month 0·5 Date Day 1·8 Year 8·7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Date Day Year

19. Discrepancy Indication Space
NONE
* 43960 # [illegible]

AR10024

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: SANDY [illegible]
Signature: [illegible]
Month Day Year

INA 0109667

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·2·1·2·6 — Manifest Document No.: 0·0·0·4·7
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone: (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0109668
B. State Generator's ID:
C. State Transporter's ID: 0042
D. Transporter's Phone: 215 395 3051
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P·A·D·0·0·8·7·8·1·0·7·2
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA 9189 (RQ, EPA D008)	0·0·1	D·T	* 2·0	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: a) Contains Lead

K. Handling Codes for Wastes Listed Above:

GENERIC APPROVAL
ADAMS CENTER LANDFILL

15. Special Handling Instructions and Additional Information
w/o #45354
Profile # OHM C 59797 PO# J4643E 30038 Arrive 5/19/87 1140

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Date: Month 0·5 Day 1·8 Year 8·7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JAY M PUSKAR — Signature: Jay M Puskar — Date: Month 0·5 Day 1·8 Year 8·7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
None
* 45040# [illegible]

AR100248

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: SANDY Hutmacher — Signature: Sandy Hutmacher — Date: Month 05 Day 1·9 Year 8·7

GENERATOR / TRANSPORTER / FACILITY

INA 0109668

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 2 (goldenrod) GENERATOR MAIL TO GENERATOR STATE
PAGE 3 (light green) TSD MAIL TO TSD STATE
PAGE 4 (light pink) OUT OF STATE GENERATOR/TSD MAIL TO IDEM
PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·0·2·1·2·6
Manifest Document No.: 0·0·0·4·8
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0109673
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P·A·D·0·0·8·7·8·1·0·7·2
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA 9189 (RQ, EPA D008)	0·0·1	D·T	* 2·0	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

GENERIC APPROVAL
ADAMS CENTER LANDFILL

15. Special Handling Instructions and Additional Information
w/o # 45433
Profile # OHMG59797 PO# J4643E 30038 Arrive 5/19/87 1200

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis
Signature: Philip C. Younis
Date: Month 0·5 Day 1·8 Year 8·7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: George E. Shaffer
Signature: George E. Shaffer
Date: Month 5 Day 18 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
None
* 36540 #0 Ned.

AR100249

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Fancy Hutmacher
Signature: Fancy Hutmacher
Date: Month 05 Day 20 Year 87

GENERATOR / TRANSPORTER / FACILITY

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

INA 0109673

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

DISTRIBUTION:
PAGE 1 (white) TSD MAIL TO GENERATOR
PAGE 2 (goldenrod) GENERATOR MAIL TO GENERATOR STATE
PAGE 3 (light green) TSD MAIL TO TSD STATE
PAGE 4 (light pink) OUT OF STATE GENERATOR/TSD MAIL TO IDEM
PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1
PAGE 8 (white) TRANSPORTER

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·0·2·1·2·6
Manifest Document No.: 0·0·0·1·2
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: US EPA REGION 3
841 Chesnut Building
Philadelphia, Pa 19170
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0119454
B. State Generator's ID:

5. Transporter 1 Company Name: John P Frommer Inc
6. Use EPA ID Number: P·A·D·0·0·8·7·8·1·0·7·2
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051

7. Transporter 2 Company Name: Horwith Trucks In
8. Use EPA ID Number: P·A·D·0·6·4·0·3·5·8·1·9
E. State Transporter's ID: PA AH 0176
F. Transporter's Phone: 215 261 2220

9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA 9189 (RQ, EPA D008)	00·1	DT	3·9·4·4·0	P	D008
b.					
c.					
d.					

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PA SECTION
MAY 20 1987
EPA, R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Materials Listed Above

15. Special Handling Instructions and Additional Information
Profile # OHMG 59797 PO# J4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jack L. Downie
Signature: Jack L. Downie
Date: Month 05 Day 13 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Charles Meckes
Signature: Charles Meckes
Date: Month 05 Day 13 Year 87

19. Discrepancy Indication Space
None
38188# Reel
MAY 26 1987
AR100250

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: J. Andy Hutmacher
Signature: [signature]
Month 05 Day 12 Year 87

GENERATOR / TRANSPORTER / FACILITY

INA 0119454

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 4 (light pink) OUT OF STATE GENERATOR TSD MAIL TO IDEM
PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

...e of a spill call Indiana Office of Environmental Response at ...7/243-5155 (day), or 317/633-0144 (night) and the ...al Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. PAP000002126 Manifest Document No. 00014
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address USEPA REGION 3
841 Chesnut Building
Philadelphia Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number INA 0119455
B. State Generator's ID

5. Transporter 1 Company Name John P Frommer Inc
6. Use EPA ID Number PAD008781072
C. State Transporter's ID
D. Transporter's Phone 215 385 3051

7. Transporter 2 Company Name Horwith Trucks Inc
8. Use EPA ID Number PAD064035819
E. State Transporter's ID PAAH 0176
F. Transporter's Phone 215 261 2220

9. Designated Facility Name and Site Address
Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number IND078911146
G. State Facility's ID
H. Facility's Phone 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ EPA D008)	001	DT	38400	P	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Profile # OHMG 59797 PO # J4643E 30038

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GENERATOR — Printed/Typed Name: JACK L. Downie — Signature: Jack L. Downie — Date: Month 05 Day 13 Year 87

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month . Day . Year .

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: MARTIN N BOLLINGER — Signature: Martin N Bollinger — Date: Month 5 Day 13 Year 87

FACILITY

19. Discrepancy Indication Space
None
38920 # OHM
MAY 26 1987
AR100251

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [illegible] — Signature: [illegible] — Date: Month 5 Day 13 Year 87

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EPA R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

INA 0119455

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 2 (goldenrod) GENERATOR MAIL TO GENERATOR STATE
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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·2·1·2·6 — Manifest Document No.: 0·0·0·2·3
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa. 19107

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0119465
B. State Generator's ID:

5. Transporter 1 Company Name: BES Environmental
6. Use EPA ID Number: P·A·D·0·0·9·2·3·2·7·4·5
C. State Transporter's ID: PA AH 0273
D. Transporter's Phone: 717 779 2318

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA 9189 (RQ, EPA D008)	0·0·1	DT	2·0	Y	D008
b.					
c.					
d.					

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EPA, R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
w/o # 44995
Profile # OHMG 59797 PO# J4643E 30058

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: JACK L. DOWNIE — Signature: Jack L. Downie — Date: Month 05 Day 14 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: ROGER KAPINSKY — Signature: Roger Kapinsky — Date: Month 05 Day 14 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
None
39140# drum

RECEIVED
MAY 26 1987
AR100252
DIV. OF COMPL. & MON.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: SANDY HUTMACHER — Signature: [signature] — Date: Month 05 Day 15 Year 87

GENERATOR — TRANSPORTER — FACILITY

INA 0119465

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P.A.P.0.0.0.0.2.1.2.6 — Manifest Document No.: 0.0.0.2.4
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa 19107

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0119466
B. State Generator's ID:

5. Transporter 1 Company Name: BES Environmental
6. Use EPA ID Number: P.A.D.0.0.9.2.3.2.7.4.5
C. State Transporter's ID: PAAH 0273
D. Transporter's Phone: 717 779 2318

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, Ind 46806
10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S. ORM-E NA 9189 (RQ, EPA D008	00.1	DT	2.0	Y	D008
b.					
c.					
d.					

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MAY 20 1987
EPA, R3

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
W/O# 44996
Profile # OHMG 59797 PO# J4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: JACK L. Downie — Signature: Jack L. Downie — Date: Month 05 Day 14 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MARK MORAN — Signature: Mark Moran — Date: Month 5 Day 14 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
None
X 36040 # ok

MAY 26 1987
AR100253
DIV. OF COMPL. & MON.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: SANDY Hetmacher — Signature: [signature] — Month 05 Day 15 Year 87

GENERATOR / TRANSPORTER / FACILITY

INA 0119466

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
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PAGE 1 (white) TSD MAIL TO GENERATOR
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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·2·1·2·6 — Manifest Document No.: 0·0·0·2·5
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0119467
B. State Generator's ID:

5. Transporter 1 Company Name: Wills Trucking
6. Use EPA ID Number: O·H·D·0·6·8·9·1·3·4·0·9
C. State Transporter's ID:
D. Transporter's Phone: 800 362 3570

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid NOS., ORM-E NA9189 (RQ EPA D008)	001	DT	~~X~~ 2.0	Y	D008
b.					
c.					
d.					

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
W/O# 44997 0900 AM
Profile # OHMG59797 P.O.# J4643E 30038 Arrive 5/18/87

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Date: Month 05 Day 15 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: GREGORY B. NICHOLS — Signature: Gregory B Nichols — Date: Month 5 Day 15 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
None
41840 [illegible]

AR100254

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: SANDY Hutmacher — Signature: [illegible] — Month Day Year 5 Y 87

INA 0119467

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

In case of a spill call Indiana Office of Environmental Response at [illegible]/243-5155 (day), or 317/633-0144 (night) and the [illegible]al Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P.A.P.0.0.0.0.0.2.1.2.6 — Manifest Document No.: 0.0.0.2.6
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0119468
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P.A.D.0.0.8.7.8.1.0.7.2
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	001	DT	* 20	Y	D008
b.					
c.					
d.					

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
W/O # 44998
Profile # OHMG59797 PO # J4643E 30038 Arrive 5/18/87 0830

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Month 05 Day 15 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAN HildenbRAND — Signature: Dan Hildenbrand — Month 05 Day 15 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space
No one
* 42260 #. [illegible]

AR100255

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy Hutmacher — Signature: Sandy Hutmachter — Month 05 Day 18 Year 87

GENERATOR / TRANSPORTER / FACILITY

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

INA 0119468

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·0·2·1·2·6 — Manifest Document No.: 0·0·0·2·7
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 — Lancaster Battery Site
A. State Manifest Document Number: INA 0119470
B. State Generator's ID:
5. Transporter 1 Company Name: John Pfrommer
6. Use EPA ID Number: P·A·D·0·0·8·7·8·1·0·7·2
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: IND·0·7·8·9·1·1·1·4·6
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	001	DT	20	Y	D008
b.					
c.					
d.					

GENERATOR

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: c) Contains Lead
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
W/O # 44999
Profile # OHMG59797 PO # J4643E 30038 Arrive 5/18/87 at 0800

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Date: Month 05 Day 15 Year 87

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Harry Hildenbrand — Signature: Harry Hildenbrand — Date: Month 05 Day 15 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space: None
44580 # [illegible]

AR100256

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy Hetrachter — Signature: Sandy Hetrachter — Date: Month 05 Day 15 Year 87

INA 0119470

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

...e of a spill call Indiana Office of Environmental Response at ...7/243-5155 (day), or 317/633-0144 (night) and the ...al Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·2·1·2·6 — Manifest Document No.: 0·0·0·2·8
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa 19107

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0119471
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P·A·D·0·0·8·7·8·1·0·7·2
7. Transporter 2 Company Name:
8. Use EPA ID Number:

9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	0·0·1	D·T	*·3·6	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
W/O #45000 Arrive 5/15/87 0920
Profile # OHMG59797 PO# J4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Date: Month 05 Day 16 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Edward Hale — Signature: Edward Hale — Date: Month 05 Day 16 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
NO 14
*400 YO #s [illegible]

AR100257

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: SANDY [illegible] — Signature: [illegible] — Month 05 Day 1[illegible] Year 87

GENERATOR / TRANSPORTER / FACILITY

INA 0119471

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

se of a spill call Indiana Office of Environmental Response 7/243-5155 (day), or 317/633-0144 (night) and the
nal Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·0·2·1·2·6
Manifest Document No.: 0·0·0·2·9
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa 19107

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0119473
B. State Generator's ID:

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P·A·D·0·0·8·7·8·1·0·7·2
C. State Transporter's ID:
D. Transporter's Phone: 215 395 3051

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ EPA D008)	0·0·1	DT	~~IX~~ 2·0	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
W/O # 45001 Arrive 5/18/87 0940
Profile # OHMG 59797 PO # 4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Philip C. Younis
Signature: Philip C. Younis
Date: Month 0·5 Day 1·6 Year 8·7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger Purbaugh
Signature: Roger Purbaugh
Date: Month 0·5 Day 1·6 Year 8·7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
Nony
* 44660# ord

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy Hutmacher
Signature: Sandy Hutmacher
Date: Month 0·5 Day 1·8 Year 8·7

GENERATOR / TRANSPORTER / FACILITY

INA 0119473

AR100258

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COP
PAGE 8 (white) TRANSPORTER 2 COP

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. P A P 0 0 0 0 0 2 1 2 6 | Manifest Document No. 0 0 0 3 0 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number INA 0119474
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone 215 385 3051
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc — 6. Use EPA ID Number: P A D 0 0 8 7 8 1 0 7 2
7. Transporter 2 Company Name — 8. Use EPA ID Number
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806 — 10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ EPA D008)	001	DT	36	Y	D008
b.					
c.					
d.					

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
W/O # 45002 Arrive 5/18/87 1000
Profile # OHMG 59797 PO # J4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Date (Month Day Year): 05/6/87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Dennis Deist — Signature: Dennis Deist — Date (Month Day Year): 05/6/87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year):

19. Discrepancy Indication Space
No. of # 43 86 oth = ma

AR100259

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: SANDY HETMANEK — Signature: Sandy Hetmanek — Date (Month Day Year): 05/15/87

GENERATOR — TRANSPORTER — FACILITY

INA 0119474

...e of a spill call Indiana Office of Environmental Response at 7/243-5155 (day), or 317/633-0144 (night) and the ...al Response Center at 800/424-8802 or 202/426-2675.

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PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·0·2·1·2·6
Manifest Document No.: 0·0·0·3·1
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0119475
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 215 385 3051
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: John Pfrommer Inc
6. Use EPA ID Number: P·A·D·0·0·8·7·8·1·0·7·2
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	0·0·1	D·T	2·0	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
W/O #45003 Arrive 5/18/87 1020
Profile # OHMG59797 PO# J4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis
Signature: Philip C. Younis
Date: Month 0·5 Day 1·6 Year 8·7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jeffrey W Montgomery
Signature: Jeffrey W Montgomery
Date: Month 5 Day 1·6 Year 8·7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
None
* 41620 #ord

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: Sandy [illegible]
Signature: [illegible]
Date: Month 5 Day 1·6 Year 8·7

GENERATOR / TRANSPORTER / FACILITY

INA 0119475

AR100260

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·0·2·1·2·6
Manifest Document No.: 0·0·0·3·2
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chesnut Building
Philadelphia, Pa. 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0119476
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 800 221 8981
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: Horwith Trucking
6. Use EPA ID Number: P·A·D·0·6·4·0·3·5·8·1·9
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	0·0·1	D·T	*·2·0	Y	D008
b.					
c.					
d.					

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
W/O # 45004 Arrive 5/18/87 1040
Profile # OHMG59797 PO # J4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis
Signature: Philip C. Younis
Date: Month 0·5 Day 1·6 Year 8·7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Martin Schoch
Signature: Martin Schoch
Date: Month 0·5 Day 1·6 Year 8·7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
None
* 44000 #s rec

AR100261

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Stanley Hutmacher
Signature: Stanley Hutmacher
Month 0·5 Day 1·6 Year 8·7

GENERATOR / TRANSPORTER / FACILITY

INA 0119476

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P.A.P.0000021.2.6 — Manifest Document No.: 00.0.3.3
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site
5. Transporter 1 Company Name: Horwith Trucking
6. Use EPA ID Number: P.A.D.0.6.4.0.3.5.8.1.9
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne In 46806
10. Use EPA ID Number: IN.D.0.7.8.9.1.1.1.4.6

A. State Manifest Document Number: INA 0119477
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 800 221 8981
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ EPA D008	0.0.1	DT	X 2.0	Y	D008
b.					
c.					
d.					

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
W/O # 45005 Arrive 5/18/87 1100
Profile # OHMB 59797 P.O. # J4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Date: Month 0.5 Day 1.6 Year 8.7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: EARL KUNKEL — Signature: Earl Kunkel — Date: Month 0.5 Day 1.6 Year 8.7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
None
$ 43960 # p.m.

AR100262

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: SANDY [illegible] — Signature: [illegible] — Month 0.5 Day 1.6 Year 8.7

INA 0119477

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

DISTRIBUTION:
PAGE 1 (white) TSD MAIL TO GENERATOR
PAGE 2 (goldenrod) GENERATOR MAIL TO GENERATOR STATE
PAGE 3 (light green) TSD MAIL TO TSD STATE
PAGE 4 (light pink) OUT OF STATE GENERATOR TSD MAIL TO IDEM
PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P.A.P.0.0.0.0.0.2.1.2.6
Manifest Document No.: 0.0.0.3.4
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3
841 Chestnut Building
Philadelphia, Pa 19107
4. Generator's Phone: (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0119478
B. State Generator's ID:

5. Transporter 1 Company Name: Wills Trucking
6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9
C. State Transporter's ID:
D. Transporter's Phone: 800 362 3570

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Chemical Waste Management
4636 Adams Center Road
Fort Wayne In 46806
10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ EPA D008)	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
W/O # 43006 Arrive 5/18/87 1120
Profile # OHMG 59797 PO # J4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Date: Month 05 Day 16 Year 87

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Lynn Ritchey — Signature: Lynn Ritchey — Date: Month 5 Day 16 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY — 19. Discrepancy Indication Space: none net 51840

AR100263

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: Tracey Williams — Signature: Tracey Williams — Date: Month 05 Day 18 Year 87

In ? of a spill call Indiana Office of Environmental Response at '243-5155 (day), or 317/633-0144 (night) and the N al Response Center at 800/424-8802 or 202/426-2675.

INA 0119478

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 2 (goldenrod) GENERATOR MAIL TO GENERATOR STATE
PAGE 3 (light green) TSD MAIL TO TSD STATE
PAGE 4 (light pink) OUT OF STATE GENERATOR/TSD MAIL TO IDEM
PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. P·A·P·0·0·0·0·0·2·1·2·6 Manifest Document No. 0·0·0·3·5

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H and I are required State law.

3. Generator's Name and Mailing Address USEPA REGION 3
841 Chestnut Building
Philadelphia Pa 19107

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number INA 0119479

B. State Generator's ID

5. Transporter 1 Company Name Wills Trucking

6. Use EPA ID Number O·H·D·0·6·8·9·1·3·4·0·9

C. State Transporter's ID

D. Transporter's Phone 800 362 3570

7. Transporter 2 Company Name

8. Use EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management
4636 Adams Center Road
Fort Wayne, In 46806

10. Use EPA ID Number IN·D·0·7·8·9·1·1·1·4·6

G. State Facility's ID

H. Facility's Phone 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S. ORM-E NA9189 (RQ, EPA D008)	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
W/O # 45007 Arrive 5/16/87 1140
Profile # OHM G 59797 PO # J4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Philip C. Younis Signature: Philip C. Younis Date: Month 05 Day 16 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Richard L. Fetter Signature: Richard Fetter Date: Month 5 Day 16 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space
+ none net 44040

AR100264

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tracey Williams Signature: Tracey Williams Date: Month 05 Day 18 Year 87

GENERATOR

TRANSPORTER

FACILITY

INA 0119479

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 2 (goldenrod) GENERATOR MAIL TO GENERATOR STATE
PAGE 3 (light green) TSD MAIL TO TSD STATE
PAGE 4 (light pink) OUT OF STATE GENERATOR, TSD MAIL TO IDEM
PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P·A·P·0·0·0·0·0·2·1·2·6 — Manifest Document No.: 0·0·0·3·6
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone: (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0119481
B. State Generator's ID:
C. State Transporter's ID: PA AH 0273
D. Transporter's Phone: 717 779 2318
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: BES Environmental
6. Use EPA ID Number: P·A·D·0·0·9·2·3·2·7·4·5
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM·E NA9189 (RQ EPA D008)	0·0·1	DT	2·0	Y	D008
b.					
c.					
d.					

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above
a) Contains Lead

Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
w/o# 45008
Profile # OHMG 59797 PO# J4643E 30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Month 05 Day 16 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: THOMAS JIMMIE — Signature: Thomas Jimmie — Month 5 Day 16 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space
No my
* 43600# ored

AR100265

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy Hutmaker — Signature: Sandy Hutmaker — Month 05 Day 16 Year 87

GENERATOR / TRANSPORTER / FACILITY

INA 0119481

...e of a spill call Indiana Office of Environmental Response at ...7/243-5155 (day), or 317/633-0144 (night) and the ...al Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 2 (goldenrod) GENERATOR MAIL TO GENERATOR STATE
PAGE 3 (light green) TSD MAIL TO TSD STATE
PAGE 4 (light pink) OUT OF STATE GENERATOR/TSD MAIL TO IDEM
PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. P A D 0 0 0 0 0 2 1 2 6 — Manifest Document No. 0 0 0 3 7
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chestnut Building, Philadelphia, Pa 19107
4. Generator's Phone: (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0119482
B. State Generator's ID:

5. Transporter 1 Company Name: Horwith Trucking
6. Use EPA ID Number: P A D 0 6 4 0 3 5 8 1 9
C. State Transporter's ID:
D. Transporter's Phone: 800 4435327

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189 (RQ, EPA D008)	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: a) Contains Lead

K. Handling Codes for Wastes Listed Above: ADAMS CENTER LANDFILL

15. Special Handling Instructions and Additional Information: W/O # 45009 Arrive 5/19/87 0800
Profile # OHM 59797 PO# J4643E-30038

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Date: Month 05 Day 18 Year 87

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Clinton Haldeman — Signature: Clinton Haldeman — Date: Month 5 Day 18 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY — 19. Discrepancy Indication Space: tnane net 41800

AR100266

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19. — Printed/Typed Name: Tracey Williams — Signature: Tracey Williams — Date: Month 05 Day 14 Year 87

GENERIC APPROVAL

INA 0119482

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

DISTRIBUTION:
PAGE 1 (white) TSD MAIL TO GENERATOR
PAGE 2 (goldenrod) GENERATOR MAIL TO GENERATOR STATE
PAGE 3 (light green) TSD MAIL TO TSD STATE
PAGE 4 (light p[illegible] OUT OF STATE GENERATOR, TSD MAIL TO IDEM
PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: P.A.P.0.0.0.0.2.1.2.6 — Manifest Document No.: 0.0.0.3.8
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: USEPA REGION 3, 841 Chesnut Building, Philadelphia, Pa 19107
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number: INA 0119483
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 800 443 5327
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219 447 5585

5. Transporter 1 Company Name: Horwith Trucking
6. Use EPA ID Number: P.A.D.0.6.4.0.3.5.8.1.9
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Chemical Waste Management, 4636 Adams Center Road, Fort Wayne, In 46806
10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA 9189 (RQ EPA D008)	0.0.1	D.T	2.0	Y	D008
b.					
c.					
d.					

GENERIC APPROVAL
ADAMS CENTER LANDFILL

J. Additional Descriptions for Materials Listed Above: a) Contains Lead
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
W/O# 45010
Profile # OHM G 59797 PO# J4643E 30038 Arrive 5/19/87 0820

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Date: Month 0.5 Day 1.8 Year 8.7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Marty Bollinger — Signature: Marty Bollinger — Date: Month 5 Day 1.8 Year 8.7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
None
$37360# ored

AR100267

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy Hetmaeter — Signature: [signature] — Month Day Year 8 19 87

GENERATOR / TRANSPORTER / FACILITY

INA 0119483

In case of a spill call Indiana Office of Environmental Response at 317/243-5155 (day), or 317/633-0144 (night) and the Federal Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22 (Rev. 9-86)
Previous editions are obsolete.
State Form 11865

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PAGE 2 (goldenrod) GENERATOR MAIL TO GENERATOR STATE
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PAGE 4 (light pink) OUT OF STATE GENERATOR/TSD MAIL TO IDEM
PAGE 5 (light blue) TSD COPY
PAGE 6 (canary) GENERATOR COPY
PAGE 7 (white) TRANSPORTER 1 COPY
PAGE 8 (white) TRANSPORTER 2 COPY

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved. OMB No. 2050-0039 Expires 9-30-

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 Manifest Document No. 00001
2. Page 1 of 1

Information in the shaded ar... required by Federal law, but is b... law

GENERATOR

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, West Virgin 26003
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone 215 [illegible]
E. State Transporter's ID [illegible]
F. Transporter's Phone [illegible]
G. State Facility's ID
H. Facility's Phone [illegible]

5. Transporter 1 Company Name: John Pfrommer Inc
6. U.S. EPA ID Number: PAD008781072
7. Transporter 2 Company Name: Horwith Trucks Inc
8. U.S. EPA ID Number: PAD064035819
9. Designated Facility Name and Site Address: GSX Services of S.C., Inc
Route #1 Box 255
Pinewood, S.C. 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste Number
a. Hazardous Waste Solid N.O.S., ORM-E, NA9189	001	DT	43590	P	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-02954-6101
b. -
c. -
d. -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
P.O. # J4643-30053
W/O # 67732, Dump 5/14/87, In case of problem call 803-452-5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classifie... packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations an... the laws of the State of South Carolina.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economicall... practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to huma... health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management metho... that is available to me and that I can afford.

Printed/Typed Name: JACK L. DOWNIE
Signature: Jack L. Downie
Month Day Ye... 05 13 8...

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Ye...

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Gene Knappenberger
Signature: Gene Knappenberger
Month Day Ye...

AR100288

FACILITY

19. Discrepancy Indication Space
a. 44520 lbs. c. lbs.
b. lbs. d. lbs.
SEC 17 NO SIGNATURE

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRENDA RIGDON
Signature: Brenda Rigdon
Month Day Ye... 05 14 8...

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved. OMB No. 2050-0039 Expires 9-3

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000092126 — Manifest Document No. 00002
2. Page 1 of 1

Information in the shaded areas is required by Federal law, but is by State l

GENERATOR

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W.Va. 26003
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: John Pfrommer Trucking Inc
6. U.S. EPA ID Number: PAD008781072

C. State Transporter's ID
D. Transporter's Phone: 215 385 30

7. Transporter 2 Company Name
8. U.S. EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
GSX Services of S.C., Inc
Route #1 Box 955
Pinewood, S.C. 29125
10. U.S. EPA ID Number: SCD070375985

G. State Facility's ID
H. Facility's Phone: 803 452 5003

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid N.O.S., ORM-E NA9189	001	DT	48	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-02954-6101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
P.O.# J4643-30053
w/o# 67737, Dump 5/15/87 In case of problem call 803-452-5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are class packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations the laws of the State of South Carolina.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economi practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to hu health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management me that is available to me and that I can afford.

Printed/Typed Name: JACK L. DOWNIE — Signature: Jack L Downie — Month 05 Day 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kelly Dishman — Signature: Kelly Dishman — Month 05 Day 14

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day

AR100269

FACILITY

19. Discrepancy Indication Space
a. 42520 lbs. c.
b. lbs. d.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BRENDA RIGDON — Signature: Brenda Rigdon — Month 05 Day 15

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

PLEASE PRINT or TYPE (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2050-0039 Expires 9-30-

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. P A P 0 0 0 2 1 2 6 0 0 0 3 — Manifest Document No.

2. Page 1 of 1

Information in the shaded a[illegible] required by Federal law, but is b[illegible]

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W.Va 26003

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

5. Transporter 1 Company Name: Dart

6. U.S. EPA ID Number: O H D 0 6 8 9 1 1 3 4 0 9

7. Transporter 2 Company Name

8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
BSX Services of S.C., Inc.
Route 1, Box 255
Pinewood, S.C. 29125

10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid N.O.S., ORM-E NA9189	001	DT	1210	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW - 021954 - 111011
b. - -
c. - -
d. - -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO# J4643-30053
W/O# 67738, Dump 5/18/87 In case of problem call 803-452-5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classif[illegible] packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations a[illegible] the laws of the State of South Carolina.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economic[illegible] practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to hum[illegible] health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management meth[illegible] that is available to me and that I can afford.

Printed/Typed Name: Philip C. Vivino — Signature: [signature] — Month Day Y[illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse E Bone — Signature: Jesse E Bone — Month Day Y[illegible] 10 5 1 5 8[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Y[illegible]

FACILITY

19. Discrepancy Indication Space
AR10027
a. 3768A lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRENDA RIGDON — Signature: [signature] — Month Day Y[illegible]

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved. OMB No. 2050-0039 Expires 9-30-

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 — Manifest Document No. 00004
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law

GENERATOR

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W.Va 26003
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

5. Transporter 1 Company Name: Dart
6. U.S. EPA ID Number: OHD068913409
7. Transporter 2 Company Name:
8. U.S. EPA ID Number:
9. Designated Facility Name and Site Address: GSX Services of S.C., Inc. Route #1 Box 255 Pinewood, S.C. 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid N.O.S., ORM-E NA9189	001	DT	30	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-02954-6101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO# J4643-30053
W/O# 67739 Dump 5/18/97 In case of problem call 803-452-5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.
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Printed/Typed Name: Philip C. Voiunts — Signature: Philip C. Voiunts — Month 05 Day 15 Year 97

TRANSPORT

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Alan Moulton — Signature: Alan Moulton — Month 05 Day 15 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year

FACILITY

19. Discrepancy Indication Space
a. 41360 lbs. c. lbs.
b. lbs. d. lbs.

AR100271

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRENDA RIGDON — Signature: Brenda Rigdon — Month 05 Day 15 Year 97

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved. OMB No. 2050-0039 Expires 9-30-8

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. P A P 0 0 0 0 2 1 2 6 0 0 0 1 5 — Manifest Document No.
2. Page 1 of 1
Information in the shaded are required by Federal law, but is by

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W.Va 26003
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

5. Transporter 1 Company Name: Dart
6. U.S. EPA ID Number: 1 0 1 H I D 1 0 1 6 1 8 9 1 1 3 4 1 0 1 9
7. Transporter 2 Company Name
8. U.S. EPA ID Number
9. Designated Facility Name and Site Address: BSX Services of S.C., Inc. Route #1 Box 255 Pinewood, S.C. 29125
10. U.S. EPA ID Number: 1 S C 1 D 1 0 7 1 0 3 7 1 5 9 8 1 5

GENERATOR

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	
a. Hazardous Waste Solid NOS., ORm-E NA9189	001	DT	210	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW - 012951 - 1011011
b. - -
c. - -
d. - -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PDJ 4643-30053

W/O 67740 Dump 5/18/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classifie packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations a the laws of the State of South Carolina.

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Printed/Typed Name: Philip C. Voluntis — Signature: [signature] — Month Day Ye 10/5/58

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Brady Pate — Signature: Brady Pate — Month Day Ye 10/5/58

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Ye

FACILITY

19. Discrepancy Indication Space
a. H 460 lbs. c. lbs.
b. lbs. d. lbs.

AR100271

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRENDA RIGDON — Signature: [signature] — Month Day Y 10/5/8

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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Form Approved. OMB No. 2050-0039 Expires 9-30-

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 — Manifest Document No. 000006

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law

GENERATOR

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling W. Va 26003

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Dart

6. U.S. EPA ID Number: OHD068913409

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. U.S. EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
GSX Services of S.C., Inc
Route #1, Box 255
Pinewood, S.C. 29125

10. U.S. EPA ID Number: SCD070375985

G. State Facility's ID

H. Facility's Phone

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid N.O.S., ORM-E NA9189	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

a. PW-02954-6101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

PO# J4643-30053

W/O# 67741 Dump 5/18/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classifi packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations a the laws of the State of South Carolina.

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Printed/Typed Name: Philip C. Vounts — Signature: [signature] — Month Day Y 05 15 8

TRANSPORT

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: David Michael — Signature: [signature] — Month Day Y 05 15 8

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Y

FACILITY

19. Discrepancy Indication Space

AR100273

a 40860 lbs. c lbs.
b lbs. d lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: BRENDA RIGDON — Signature: [signature] — Month Day Y 05 18 8

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved. OMB No. 2050-0039 Expires 9-30-8

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 — Manifest Document No. 00007
2. Page 1 of 1

Information in the shaded area ... required by Federal law, but is by ...

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W.Va. 26003
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

5. Transporter 1 Company Name: Dart
6. U.S. EPA ID Number: OHD068913409

7. Transporter 2 Company Name:
8. U.S. EPA ID Number:

9. Designated Facility Name and Site Address: GSX Services of S.C., Inc
Route #1, Box 255
Pinewood, S.C. 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid N.O.S., ORM-E NA9189	001	DT	30	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-02954-6101
b. -
c. -
d. -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
P.O.# J4643-30053
W/O# 67742 Dump 5/18/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classifie packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations an the laws of the State of South Carolina.
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Printed/Typed Name: Philip C. Vouris — Signature: Philip C. Vouris — Month Day Yea 05 15 8

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: WILBERT SMITH. — Signature: Wilbert Smith — Month Day Yea 05 15 8

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Ye

AR100274

19. Discrepancy Indication Space
a. 35380 lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRENDA RIGDON — Signature: Brenda Rigdon — Month Day Ye 05 15 8

GENERATOR

TRANSPORTER

FACILITY

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 Manifest Document No. 00008
2. Page 1 of 1

Information in the shaded areas is required by Federal law, but is by State

GENERATOR

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W. Va 26003
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name John Pfrommer Trucking Inc
6. U.S. EPA ID Number PAD008781072

C. State Transporter's ID
D. Transporter's Phone 215 385 305

7. Transporter 2 Company Name
8. U.S. EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
GSX Services of SC, Inc
Route #1 Box 255
Pinewood S.C. 29125
10. U.S. EPA ID Number SCD070375985

G. State Facility's ID
H. Facility's Phone 803 452 5003

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid N.O.S., ORM-E NA9189	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-02954-6101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO# J4643-30053
W/O# 67743 Dump 5/18/87 Incase of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are class packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations the laws of the State of South Carolina.
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Printed/Typed Name Philip C. Younis
Signature Philip C. Younis
Month Day 05 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name Joseph A De Salvo
Signature Joseph A De Salvo
Month Day 05 15

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day
AR100275

FACILITY

19. Discrepancy Indication Space
a 3734 lbs. c
b lbs. d

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name BRENDA RIGDON
Signature Brenda Rigdon
Month Day 05 1

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 Manifest Document No. 00009
2. Page 1 of 1

Information in the shaded ... is required by Federal law, but is by State

GENERATOR

3. Generator's Name and Mailing Address USEPA Region III
303 Methodist Building
Wheeling W.Va. 26003
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name John Pfrommer Trucking Inc
6. U.S. EPA ID Number PAD008781072

C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. U.S. EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
GSX Services of S.C. Inc
Route #1 Box 255
Pinewood, S.C. 29125
10. U.S. EPA ID Number SCD070375985

G. State Facility's ID
H. Facility's Phone 803 452 5003

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste Numb
a. Hazardous Waste Solid N.O.S., ORMYE NA9189	001	DT	20	Y	D00
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-0295H-6101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO#J4643-30053
W/O#67744 Dump 5/15/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are clas packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulatior the laws of the State of South Carolina.
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Printed/Typed Name Philip C. Younis Signature Philip C. Younis Month 05 Day 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name Edward B. Jenkins Signature Edward B. Jenkins Month 05 Day 15

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month

AR100276

FACILITY

19. Discrepancy Indication Space
a 39460 lbs. c
b lbs. d

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name Signature Month Day

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 — Manifest Document No. 00010

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law

GENERATOR

3. Generator's Name and Mailing Address: US EPA REGION III
303 Methodist Building
Wheeling, W.Va 26003

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Dart

6. U.S. EPA ID Number: OHD068913409

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. U.S. EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: GSX Services of S.C., Inc
Route #1 . Box 255
Pinewood, S.C. 29125

10. U.S. EPA ID Number: SCD070375985

G. State Facility's ID

H. Facility's Phone

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid N.O.S. ORM-E NA 9189	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

a. PW-02954-6101
b. -
c. -
d. -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

PO# J4643-30053

W/O# 67745 Dump 5/18/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classifi packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations a the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economica practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to hum health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management meth that is available to me and that I can afford.

Printed/Typed Name: Philip C. Yaunis — Signature: Philip C. Yaunis — Month Day Y 05 16 8

TRANSPORT

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: HAROLD G CORKREN — Signature: Harold G Corkren — Month Day Y 05 16 8

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Y

AR100277

FACILITY

19. Discrepancy Indication Space

a 42360 lbs. c lbs.
b lbs. d lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: BRENDA RIGDON — Signature: Brenda Rigdon — Month Day Y 05 18

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 — Manifest Document No. 00011
2. Page 1 of 1

Information in the shaded a[illegible] required by Federal law, but is [illegible] law

GENERATOR

3. Generator's Name and Mailing Address: USEPA REGION 3
303 Methodist Building
Wheeling, W. Va. 26003
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

5. Transporter 1 Company Name: Dart
6. U.S. EPA ID Number: OHD068913409

7. Transporter 2 Company Name:
8. U.S. EPA ID Number:

9. Designated Facility Name and Site Address: GSX Services of S.C.
Route #1 Box 255
Pinewood, S.C. 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid, N.O.S., ORM-E NA9189	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-02954-61101
b. -
c. -
d. -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO# J4643-30053
W/O# 67746 Dump 5/18/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classifie[illegible] packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations a[illegible] the laws of the State of South Carolina.
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Printed/Typed Name: Philip C. Youns — Signature: Philip C. Youns — Month Day Ye[illegible] 05 16 8[illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tommy Corkren — Signature: Tommy Corkren — Month Day Ye[illegible] 05 16 8[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Ye[illegible]

AR100278

FACILITY

19. Discrepancy Indication Space
a. 43080 lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRENDA RIGDON — Signature: [illegible] — Month Day Ye[illegible] 5 [illegible]

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 — Manifest Document No. 00012

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W.Va 26003

4. Generator's Phone (304) 233 1271 Lancaster Battery Site

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Dart

6. U.S. EPA ID Number: OHD068913409

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. U.S. EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
GSX Services of S.C., Inc
Route #1 Box 255
Pinewood, S.C. 29125

10. U.S. EPA ID Number: SCD070375985

G. State Facility's ID

H. Facility's Phone

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid N.O.S., ORME NA 9189	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

a. PW-02954-6101
b. -
c. -
d. -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

PO# J4643-30053

W/O# 67855 Dump 5/18/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Month Day Year: 05 16 8

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: R L Trader — Signature: R L Shader — Month Day Year: 05 16 8

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

AR100279

FACILITY

19. Discrepancy Indication Space

a. 38660 lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: BRENDA RIGDON — Signature: Brenda Rigdon — Month Day Year: 05 18 8

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mg
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 — Manifest Document No. 00013
2. Page 1 of 1

Information in the shaded ... required by Federal law, but ...

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone 803 452 5003

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W.Va 26003
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

5. Transporter 1 Company Name: Dart
6. U.S. EPA ID Number: OHD068913409

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
GSX Services of S.C., Inc.
Route #1 Box 255
Pinewood, S.C. 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Numb
a. Hazardous Waste Solid N.O.S., ORM-E NA9189	001	DT	20	Y	D001
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-02954-61101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO# J4643-30053

W/O# 67856 Dump 5/18/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are clas packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulatior the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be econom practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to h health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management m that is available to me and that I can afford.

Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Month 05 Day 16

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: BARRY CRAIG — Signature: Barry Craig — Month 05 Day

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day

AR100280

19. Discrepancy Indication Space
a. 40400 lbs. c.
b. lbs. d.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRENDA RIGDON — Signature: Brenda Rigdon — Month 05 Day 18

GENERATOR — TRANSPORTER — FACILITY

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 Manifest Document No. 000014
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W.Va 26003
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

5. Transporter 1 Company Name: Dart
6. U.S. EPA ID Number: OHD068913409
7. Transporter 2 Company Name
8. U.S. EPA ID Number
9. Designated Facility Name and Site Address: GSX Services of S.C., Inc
Route #1 Box 255
Pinewood S.C. 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid N.O.S., ORM-E NA9189	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-02954-6101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO# J4643-30053
W/O# 67857 Dump 5/18/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Philip C. Younis
Signature: Philip C. Younis
Month Day Year: 05 16 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Steve Shockley
Signature: Steve Shockley
Month Day Year: 05 16 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

AR100281

19. Discrepancy Indication Space
a. 42920 lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRENDA RIGDON
Signature
Month Day Year: 05 18 87

GENERATOR 1

TRANSPO

FACILITY

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAD000021260 Manifest Document No. 0015
2. Page 1 of 1

Information in the shaded a required by Federal law, but is by State l

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W.Va. 26003
4. Generator's Phone (304) 233 1271 Lancaster Battery Site

5. Transporter 1 Company Name: Dart
6. U.S. EPA ID Number: OHD016819134019

7. Transporter 2 Company Name:
8. U.S. EPA ID Number:

9. Designated Facility Name and Site Address: GSX Services of S.C., Inc
Route #1 Box 255
Pinewood, S.C. 29125
10. U.S. EPA ID Number: SCD017013759185

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Hazardous Waste Solid N.O.S., ORM-E NA9189	001	DT	1210	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW - D29 54 - 6 1 0 1
b. -
c. -
d. -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO# J4643-30053

W/O# 67858 Dump 5/19/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classi packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations the laws of the State of South Carolina.

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Printed/Typed Name: Philip C. Voients
Signature: (Philip C. Voients)
Month Day

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: James R Durham
Signature: James R Durham
Month Day

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature: AR100282
Month

FACILITY

19. Discrepancy Indication Space
a. 4100 lbs. c.
b. lbs. d.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Month Day

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 Manifest Document No. 000116
2. Page 1 of 1

Information in the shaded areas is n required by Federal law, but is by State la

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W. Va 26003
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

5. Transporter 1 Company Name: Dart
6. U.S. EPA ID Number: OHD068913409
7. Transporter 2 Company Name
8. U.S. EPA ID Number
9. Designated Facility Name and Site Address: GSX Services of S.C., Inc
Route #1 Box 255
Pinewood, S.C. 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid N.O.S., ORM-E NA9189	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-02954-6101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO# J4643-30053
W/O# 67859 Dump 5/19/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classifie packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations a the laws of the State of South Carolina.
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Printed/Typed Name: Philip C. Young
Signature: Philip C. Young
Month Day Ye: 05 18 8

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: CHARLES L. GROFF
Signature: Charles L. Groff
Month Day Ye: 05 18 8

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
AR100283
Month Day Ye

19. Discrepancy Indication Space
a. 4618P lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRENDA RIGDON
Signature
Month Day Y

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 — Manifest Document No. 00017

2. Page 1 of 1

Information in the shaded ar[illegible] required by Federal law, but is by [illegible] law

GENERATOR

3. Generator's Name and Mailing Address: USEPA REGION III
303 Methodist Building
Wheeling, W.Va 26003

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Dart

6. U.S. EPA ID Number: OHD068913409

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. U.S. EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: GSX Services of S.C., Inc
Route #1 Box 255
Pinewood, S.C. 29125

10. U.S. EPA ID Number: SCD070375985

G. State Facility's ID

H. Facility's Phone

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid, N.O.S., ORM-E NA9189	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

a. PW-02954-6101
b. -
c. -
d. -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

PO# J4643-30053

W/O# 67860 Dump 5/19/87 Incase of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classifie[illegible] packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations ar[illegible] the laws of the State of South Carolina.

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Printed/Typed Name: Philip C. Young — Signature: [signature] — Month Day Ye[illegible] 05 18 8[illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: JAMES ROSS — Signature: James Ross — Month Day Ye[illegible] 05 18 8[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Ye[illegible]

AR100284

FACILITY

19. Discrepancy Indication Space

a. 43740 lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: BRENDA RIGDON — Signature: [signature] — Month Day Ye[illegible] 05 18 8[illegible]

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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Form Approved. OMB No. 2050-0039 Expires 9-30-

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 Manifest Document No. 00018

2. Page 1 of 1

Information in the shaded areas is no required by Federal law, but is by State law

GENERATOR

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W. Va

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: John Pfrommer Trucking

6. U.S. EPA ID Number: PAD008781072

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. U.S. EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
GSX Services of SC., Inc
Route #1 Box 255
Pinewood, S.C. 29125

10. U.S. EPA ID Number: SCD070375985

G. State Facility's ID

H. Facility's Phone

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid N.O.S. ORM-E NA9189	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

a. PW-02954-6191
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO# J4643 - 30053

W/O# 67861 Dump 5/19/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classifie packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations an the laws of the State of South Carolina.

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Printed/Typed Name: Philip C. Younis | Signature: Philip C. Younis | Month 05 Day 18 Ye 8

TRANSPORT

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: A.R. Burke | Signature: C.R. Burke | Month 05 Day 18 Ye 8

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Ye

AR100286

FACILITY

19. Discrepancy Indication Space

a. 41900 lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: BRENDA RIGDON | Signature: Brenda Rigdon | Month 05 Day 19 Ye 8

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 Manifest Document No. 00019
2. Page 1 of 1

Information in the shaded ar... required by Federal law, but is by ... law

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building 26003
Wheeling, W.Va
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

5. Transporter 1 Company Name: John Pfrommer Trucking
6. U.S. EPA ID Number: PAD008781072

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
GSX Services of S.C., Inc
Route #1 Box 255
Pinewood, S.C. 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid N.O.S. ORM-E NA 9189	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-0295H-6191
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO# J4643-30053
w/o #67862 Dump 5/19/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classif... packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations ... the laws of the State of South Carolina.
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Printed/Typed Name: Philip C. Younis
Signature: Philip C. Younis
Month Day Y... 05 18 8...

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Gerald L Clark
Signature: [signature]
Month Day Y... 05 18 8...

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Y...

AR100286

19. Discrepancy Indication Space
a. 39040 lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRENDA BIGDON
Signature: [signature]
Month Day ... 05 19 ...

GENERATOR

TRANSPORTER

FACILITY

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAD000021260 Manifest Document No.
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W. Va 26003
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

5. Transporter 1 Company Name: John Brenner Trucking
6. U.S. EPA ID Number: PAD087810712
7. Transporter 2 Company Name
8. U.S. EPA ID Number
9. Designated Facility Name and Site Address: BSX Services of S.C. Inc.
Route #1 Box 255
Pinewood, S.C. 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid N.O.S., ORM-E NA9189	001	DT	240	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PA-029541611
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO# J4643-30053
W/O# 678663 Dump 5/19/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classifie packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations an the laws of the State of South Carolina.

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Printed/Typed Name: Philip C. Young | Signature: Philip C. Young | Month Day Yea 5/18/8

TRANSPORT

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: L. BROWN JR. | Signature: L. Brown Jr. | Month Day Ye 5/18/8

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature: AR100287 | Month Day Ye

FACILITY

19. Discrepancy Indication Space
a. HW320 lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRENDA RIGDON | Signature | Month Day Ye

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 — Manifest Document No. 00021
2. Page 1 of 1

Information in the shaded ... required by Federal law, but is ...

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W. Va 26003

4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

5. Transporter 1 Company Name: Dart
6. U.S. EPA ID Number: OHD068913409

7. Transporter 2 Company Name:
8. U.S. EPA ID Number:

9. Designated Facility Name and Site Address
GSX Services of S.C., Inc.
Route #1 Box 255
Pinewood, S.C. 29125

10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste Number
a. Hazardous Waste Solid N.O.S., ORM-E NA9189	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-02954-61101
b. -
c. -
d. -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

W/O # 67918 Dump 5/19/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classifi... packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations a... the laws of the State of South Carolina.

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Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Month Day Ye...

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Bob Benjamin — Signature: Bob Benjamin — Month Day Ye... 05 18 8...

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Ye...

AR100200

19. Discrepancy Indication Space
a. 40160 lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRENDA RIGDON — Signature: Brenda Rigdon — Month Day Ye... 05 18 8...

GENERATOR

TRANSPORTER

FACILITY

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)734-5424

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved. OMB No. 2050-0039 Expires 9-30-8

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. PAP000002126 — Manifest Document No. 00022
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address USEPA REGION III
303 Methodist Building
Wheeling, W. Va. 26003
4. Generator's Phone (304) 233-1271 Lancaster Battery Site

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

5. Transporter 1 Company Name: Dart
6. U.S. EPA ID Number: OHD068913409
7. Transporter 2 Company Name:
8. U.S. EPA ID Number:
9. Designated Facility Name and Site Address: 65X Services of S.C., Inc. Route #1 Box 255 Pinewood, S.C. 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste Number
a. Hazardous Waste Solid N.O.S., ORM-E NA9189	001	DT	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-02954-6101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO#J4643-30053

W/O#67919 Dump 5/19/87 In case of problem call 803 452 5003

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classifie packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations a the laws of the State of South Carolina.

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Printed/Typed Name: Philip C. Younis — Signature: Philip C. Younis — Month 05 Day 18 Ye 8

TRANSPORT

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: J. D. Stanfield — Signature: J. D. Stanfield — Month 05 Day 18 Ye

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Y

FACILITY

19. Discrepancy Indication Space
AR100289
a. 42640 lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRENDA RIGDON — Signature: Brenda Rigdon — Month 05 Day 19 Y

DELIVERY ORDER FOR EMERGENCY RESPONSE CLEANUP SERVICES

Rec'd 3-20-87 wjh 4643-C3-220

(This delivery order is issued subject to all terms and conditions of the contract identified in Block 2.)

1. DATE OF ORDER	2. CONTRACT NUMBER	3. ORDER NUMBER
3/11/87	68-01-6893	6893-03-110

4. TIME OF INITIAL ORDER *(If initial order was verbal) (Specify Time Zone)*

1145 ☐ AM ☐ PM

5. DELIVERY ORDER CEILING AMOUNT *(Obligated Amount)*

250k

6. ACCOUNTING AND APPROPRIATION DATA

Appropriation Number	Document Control No.	Account Number	Object Class
68/20/8145	E7W350	7QFA3AWEW3	25:35

7a. ISSUED TO: CONTRACTOR *(Name, Address, and ZIP Code)*

OH Materials Company
16406 US Route 224 East
Findley, OH 45839

8a. ISSUED BY: ORDERING OFFICE *(Name, Address, and ZIP Code)*

US Environmental Protection Agency
Region III
303 Methodist Building
Wheeling, WV 26003

7b. PROGRAM MANAGER *(Name and Phone Number)*

Robert O'Neck (419)423-3526

8b. EPA REGION/USCG DISTRICT

Region III

8c. ZONE

I

7c. RESPONSE MANAGER *(Name and Phone Number)*

8d. ON-SCENE COORDINATOR *(Name and Phone Number)*

Jack L. Downie (304)233-9831

9. RESPONSE LOCATION *(Site Name and/or Address and ZIP Code)*

'ancaster Battery Site
anheim Township
Lancaster County, PA

10. CONTRACTOR REQUIRED ON SITE *(Date and Time) (Specify Time Zone)*

1400 ☐ AM ☒ PM

11. REQUIRED WORK COMPLETION DATE

September 11, 1987

12. STATEMENT OF WORK

The Contractor shall furnish the necessary personnel, materials, services, facilities, and otherwise do all things necessary for or incident to the performance of the work set forth below:

1. Arrange for command post and decon so that the Lancaster Battery site (A lead + heavy metals soil job.
2. Arrange laboratory analysis (lead, arsenic, cadmium chromium).
3. Based on lab results excavate up to 1200 tons of soil.
4. Arrange for disposal at an approved facility
5. Arrange property restoration. Cleanup inside private building may be required.
6. All activities in accordance with Federal, state and Local regulations.

AR100290

ORDERING OFFICER

NAME/TITLE	SIGNATURE	DATE
Jack L. Downie On-Scene Coordinator	Jack L. Downie	3/11/87

CONTRACTOR

LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

I. METHODS AND MATERIALS

A. Equipment and Calibrations

Area air sampling was performed using the General Metal Works, Inc., Village of Cleves, Ohio, Model GMWS-2310 Accu-Vol air sampling system or its equivalent. The equipment meets the EPA specifications for collecting suspended particulates as defined in the April 30, 1971 Federal Register Volume 36, Number 84. The shelter was made of aluminum and stood 4 feet 4 inches high with the filter assembly located at 3 feet 6 inches. The shelter was attached to an aluminum platform which was 3 feet high resulting in the filter assembly height of 6 feet 6 inches. Calibration charts were generated by the Pennsylvania Department of Environmental Resources (PADER) Bureau of Air Quality Control. All of the high volume air samples were calibrated within the last 1,000-hour period of operation. The calibration was done using a calibrating orifice assembly and water manometer.

Personal air sampling was performed using the Gilian Instrument Corp., Wayne, New Jersey, Model HFS113UT constant flow air sampling pump. The equipment meets the NIOSH/OSHA specifications for collecting lead and suspended particulates as defined in NIOSH Method P & CAM S341. 37mm mixed cellulose ester filters made by SKC, Inc., Eighty-four, Pennsylvania were used in the 3-piece close-faced cassette unit. Pre and post sampling calibration were performed using the bubble meter as a primary calibration method. The authentic mean average of the pre and post calibrations was used as the flow rate for any sampling run.

B. Area Samples

Glass fiber filters (8" x 10") were placed on high volume samplers with flow rates of 35 to 45 cu. ft./minute. The filter and samples were located inside of housing designed to prevent settleable particulates from being included among the total suspended particulates pulled on to the glass fiber filter. The on-site and athletic field samples were run at 6 feet, 6 inches above ground level. Samples were either run for 6 hours or 24 hours. Glass fiber filter field blanks were sent for each respective day of area sampling. The filters were analyzed for total suspended particulates and lead. A select group of four area samples were analyzed for arsenic during the post-excavation area air sampling.

I. METHODS AND MATERIALS (continued)

C. Personal Samples

37mm mixed cellulose ester filters were placed in 3 stage cassettes. The personal air sampling was performed using a close-faced cassette and flow rates of 2.0 liters/minute. Four personal samples were done on all but the first day of excavation. On a number of occasions the Gilian HFS113UT pump and cassette were attached to equipment rather than the equipment operator or employee. No post-excavation personal samples were performed because no one was working on site during this time period. Since the equipment was not separated from the outside air like the employees were when sitting in a cab, it was apparent that attaching it to the equipment should result in higher levels of airborne lead. Also, the equipment remained on site all day, while the employee goes off site for breaks and lunch.

D. Analyses

Area glass fiber filters were analyzed using EPA Method 600/4-77-027a.

The 37mm mixed cellulose ester filters were analyzed using NIOSH Method P & CAM S341.

II. AIRBORNE LEAD STANDARDS AND LEVEL OF PERSONAL PROTECTION

The National Ambient Air Quality Standard (NAAQS) for lead is 1.5 micrograms/cubic meter for a 24-hour period per quarter. This is the appropriate standard to reference for the area air sampling that was performed. It is noteworthy that ambient lead levels have decreased significantly during the past 15 years. More stringent regulations controlling industrial emissions of lead have probably had some effect on ambient lead levels, but the most significant reason for the decrease in ambient air levels of lead is due to the greatly decreased usage of leaded gasolines.

The Occupational Safety and Health Administration 8-hour Permissible Exposure Limit (OSHA-PEL) for lead is 50 micrograms/cubic meter. This is the appropriate standard to reference for employees exposed to airborne lead. As a result, it is the appropriate standard to reference for the personal air sampling for lead that was performed, although it remains EPA's policy to minimize all ambient exposures to chemicals including those incurred by hazardous waste site workers.

All the employees used MSA ultra twin, full-face air purifying respirators with MSA type H filter cartridges for control against exposure to airborne dusts. The full-face respirator affords 100-fold protection against airborne contaminants. All employees were qualitatively fit tested using irritant smoke within the six months prior to employment at this site.

III. QUALITY CONTROL AND QUALITY ASSURANCE

For each day that area samples were performed, a field blank consisting of a glass fiber filter (8" x 10") was submitted with the samples for analysis. For each day that personal samples were performed, a 37mm mixed cellulose ester filter was also submitted with the samples for analysis. The following QA/QC was performed:

1) Field blanks were submitted for each analytical group.

2) A matrix spike analysis was performed for each analytical group. Recoveries greater than ±20% were not acceptable.

3) Duplicate analysis was performed for each analytical group. Any relative percent differences greater than ±20% were not acceptable.

4) An external standard and the samples will be run at the same time. The standard range should cover the sample range for each analytical group.

IV. BACKGROUND

There were 10 locations for which both pre- and post-excavation soil samples were taken (see Table III). A geometric mean was calculated for each of these two distributions. (The assumption was made that the two distributions were typical environmental distributions showing a left skew. As such, the geometric mean should be the best measure of central tendency.) The pre-excavation soil lead geometric mean (40,404 ppm) is just greater than tenfold the post-excavation soil lead geometric mean (3,632 ppm). If the soil lead levels are indicative of both the lead load available as particulates to become airborne and representative of soil lead values as a whole, and if other factors remain the same, the airborne lead level should be reduced by greater than 90% as were the soil lead values.

After excavation, clean fill was added to excavated areas on site. The fill was placed over polyethylene sheeting over much of the site. In some locations it was impractical to put down fill because it was unlikely that a vegetative cover would grow. The alley between the AIN Plastics facility and the motel was such an area. For this area, two to four-inch rocks were placed over a polyethylene cover. For the areas in which fill had been used, either grass seed or grass sod was put down to provide a vegetative cover. Post-excavation air sampling was performed nearly four months later after the vegetative cover had developed.

V. RESULTS

Table I contains the results for area baseline air sampling for lead along with area and personal air sampling performed during soil excavation. Table II contains wind directions and wind speeds for each hour and 24-hour averages for March 1987 during which time the baseline and air sampling were performed. Wind directions and wind speeds are bracketed for days on which air sampling was performed.

Table IV contains the results for area air sampling performed nearly four months after soil excavation. Table V contains wind directions and wind speeds for each hour and 24-hour averages for July 1987 during which time the post-excavation area air sampling for lead was performed. Wind directions and wind speeds are again bracketed for days on which air sampling was performed.

Table VI contains airborne arsenic levels for the four highest airborne lead level locations found during post-excavation air sampling. Arsenic is generally associated with lead in car and truck batteries. The arsenic is added to the lead to create a harder matrix in the battery cell. Only limited air sampling was performed for arsenic because soil arsenic levels were two and three orders of magnitude less than the soil lead levels. In the post-excavation air sampling, some arsenic air sampling was performed to categorize airborne arsenic levels. Arsenic is a potent, known human carcinogen via inhalation. There is no NAAQS for arsenic. Two values of 0.003 micrograms/cubic meter are substantially less than the OSHA-PEL of 10 micrograms/cubic meter. In summary, the airborne levels of arsenic were non-problematic.

The baseline air sampling shows two values in excess of the NAAQS of 1.5 micrograms/cubic meter for lead. The wind was primarily out of the west-north directions during this sampling period in the afternoon and evening of March 19, 1987. These wind directions would cause movement of airborne particulate matter from the site and road surface towards the athletic field locations with the high airborne lead levels. All background levels (0.03 to 0.30 micrograms/cubic meter) found at the Background (Burnham) location were consistent with background lead levels determined over the past few years in Lancaster, Pennsylvania by the Pennsylvania Department of Environmental Resources Bureau of Air Quality Control for 24-hour quarterly air monitoring for lead.

For March 24 through March 27, 1987 during the excavation both on site and athletic field, airborne lead levels were elevated. These increased airborne lead levels are consistent with the soil cutting operations which would be expected to increase as total suspended particulate loads increase and therefore airborne lead levels would increase.

The post-excavation lead air sampling was conducted from July 10 through July 13, 1987. The on-site airborne lead levels ranged from 0.11 to 1.32 micrograms/cubic meter and the athletic field lead levels ranged from 0.10 to 0.25 micrograms/cubic meter. All of these values were less than the micrograms/cubic meter NAAQS for lead.

LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

TABLE I

I. Lead Sampling - March 19, 1987

Area samples, baseline air sampling prior to excavation.

Sample	Location	Volume of Air Sampled Cubic Meters	Total Lead in Micrograms	Concentration in Micrograms/ Cubic Meter
001A	Athletic Field	460	12,300	26.7
002A	On the Site	2,010	360	0.15
003A	Field Blank	--	<20	--
004A	Background (Burnham)	484	60	0.12
005A	Athletic Field	537	1,830	3.41

II. Lead Sampling - March 24, 1987

Area samples, excavation activities began March 23, 1987.

Sample	Location	Volume of Air Sampled Cubic Meters	Total Lead in Micrograms	Concentration in Micrograms/ Cubic Meter
21	Background (Burnham)	1,974	160	0.08
22	On the Site	566	47,700	84
23	Athletic Field	508	2,000	4.0
24	Field Blank	--	70	--

III. Lead Sampling - March 25, 1987

Area samples, excavation activities ongoing.

Sample	Location	Volume of Air Sampled Cubic Meters	Total Lead in Micrograms	Concentration in Micrograms/ Cubic Meter
25	On the Site	685	34,300	50
26	Athletic Field	606	480	0.8
27	Background (Burnham)	1,970	480	0.2
28	Field Blank	--	150	--

LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

TABLE I (continued)

IV. Lead Sampling - March 26, 1987

Area samples, excavation activities ongoing.

Sample	Location	Volume of Air Sampled Cubic Meters	Total Lead in Micrograms	Concentration in Micrograms/ Cubic Meter
29	On the Site	447	13,800	31.0
30	Athletic Field	669	6,400	10.0
31	Background (Burnham)	1,990	690	0.3
32	Field Blank	--	20	--

V. Lead Sampling - March 27, 1987

Area samples, excavation activities ongoing.

Sample	Location	Volume of Air Sampled Cubic Meters	Total Lead in Micrograms	Concentration in Micrograms/ Cubic Meter
33	Athletic Field	834	2,330	3.0
34	On the Site	752	6,330	8.0
35	Background (Burnham)	2,000	190	0.09
36	Field Blank	--	20	--

The National Ambient Air Quality Standard for lead is 1.5 micrograms/cubic meter for a 24-hour period per quarter. The background air sampling was conducted 1/2 mile east of the site at the Burnham Tech Center. This air monitoring station was placed 6 meters above ground level. The athletic field monitoring station was located across Vermont Avenue from the site (approximately 10 meters south of the site). The on-site monitoring station was located approximately in the center of the site adjacent to the soil stockpile and approximately 2 meters south of the stockpile. The latter two (2) air monitoring stations were located 2 meters above ground level (see Figure 1).

VI. Lead Sampling - March 24, 1987

Personal/equipment samples conducted during excavation activities.

Sample	Person/Equipment	Volume of Air Sampled Cubic Meters	Total Lead (Second Filter Lead Level) in Micrograms	Concentration in Micrograms/ Cubic Meters
3	Bobcat (outside)	1.16	123 (<1)	116
4	Track excavator (inside)	1.32	95 (<1)	72
5	930 dozer (outside)	1.27	153 (<1)	[illegible]
6	Field Blank	--	<1.0 (<1)	--

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LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

TABLE I (continued)

VII. Lead Sampling - March 25, 1987

Personal/equipment samples conducted during excavation activities.

Sample	Person/Equipment	Volume of Air Sampled Cubic Meters	Total Lead (Second Filter Lead Level) in Micrograms	Concentration in Micrograms/ Cubic Meters
7	Bobcat (outside)	0.99	49 (1)	50
8	930 dozer (outside)	0.85	17 (1)	20
9	Track excavator (inside)	0.89	65 (3)	73
10	Mr. Smail	0.79	20 (<1)	25
11	Field Blank	--	<1.0 (<1)	--

VIII. Lead Sampling - March 26, 1987

Personal/equipment samples conducted during excavation activities.

Sample	Person/Equipment	Volume of Air Sampled Cubic Meters	Total Lead (Second Filter Lead Level) in Micrograms	Concentration in Micrograms/ Cubic Meters
12	Track excavator (inside)	1.23	18 (<1)	15
13	Track excavator (outside)	1.25	13 (<1)	10
14	Mr. Chester	1.19	638 (14)	535
15	Inside storage warehouse	0.99	184 (1)	184
16	Field Blank	--	<1.0 (<1)	--

Gilian HFS 113UT pumps were used for the personal/equipment air sampling for lead. All personal/equipment air sampling was conducted with a flow rate of 2.0 liters per minute using a close faced mixed cellulose ester membrane cassette. The first day of personal/equipment sampling an air sampling pump was placed on an individual. He repositioned the pump and later turned it off. Because of some problems like these stationing pumps on equipment rather than individuals was preferred. Since the equipment remained on site while workers took breaks off site, it is apparent that pumps on equipment rather than individuals would more appropriately address "worst case" scenarios (although this was not the case for Mr. Chester on March 26, 1987). All individuals on site wore full face air purifying cartridge respirators appropriate for filtering out lead in the atmosphere.

The Occupational Safety and Health Administration 8-hour Permissible Exposure Limit (OSHA-PEL) for lead is 50 micrograms/cubic meter.

LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

TABLE II

I. Lead Sampling - July 10, 1987

Area samples, air sampling following excavation.

Sample	Location	Volume of Air Sampled Cubic Meters	Total Lead in Micrograms	Concentration in Micrograms/ Cubic Meter
115	On the Site	2,029	250	0.12
116	Background (Burnham)	2,017	110	0.05
117	Athletic Field	1,900	480*	0.25

II. Lead Sampling - July 11, 1987

Area samples, air sampling following excavation.

Sample	Location	Volume of Air Sampled Cubic Meters	Total Lead in Micrograms	Concentration in Micrograms/ Cubic Meter
118	On the Site	2,026	330	0.16
119	Background (Burnham)	2,014	50	0.03
120	Athletic Field	2,008	480*	0.24

III. Lead Sampling - July 12, 1987

Area samples, air sampling following excavation

Sample	Location	Volume of Air Sampled Cubic Meters	Total Lead in Micrograms	Concentration in Micrograms/ Cubic Meter
121	On the Site	2,030	230	0.11
122	Backgroundj (Burnham)	1,990	70	0.035
123	Athletic Field	1,972	270	0.14

IV. Lead Sampling - July 13, 1987

Area samples, air samples following excavation.

Sample	Location	Volume of Air Sampled Cubic Meters	Total Lead in Micrograms	Concentration in Micrograms/ Cubic Meter
124	On the Site	2,033	2,700	1.32
125	Background (Burnham)	1,976	70	0.035
126	Athletic Field	1,947	200	0.10

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V. RESULTS (continued)

Personal air sampling for lead was conducted only during soil excavation activities on March 24, 25 and 26, 1987. On all three days airborne lead levels in excess of the OSHA-PEL of 50 micrograms/cubic meter were experienced. As was stated in Table I, the Gilian HFS 113 UT pumps and appropriate cassettes were frequently placed on operational on-site equipment rather than employees. Because the equipment remained on site while workers took breaks off site, it is apparent that the pumps on equipment rather than individuals would more appropriately address worst-case scenarios. The one exception to this was the personal sample for Mr. Chester on March 26, 1987. Mr. Chester was not working outside to clean up excavated soil, rather he was working in the warehouse on March 26, 1987. On this day he was busy sweeping up lead dust from the floor as well as removing lead dust from the tables and some vertical surfaces like walls. During this work there were no fans or engineering controls in place to reduce airborne lead dust levels. While the other personal sample was simply placed in the warehouse, Mr. Chester's personal sample was always in close proximity to the areas in the warehouse where lead dust was being disturbed. This accounts for the higher lead level reading for Mr. Chester (535 micrograms/cubic meter) than for the personal "inside storage warehouse" lead level (184 micrograms/cubic meter).

VI. CONCLUSIONS

It appears that pre-excavation airborne lead levels at the athletic field were appreciably higher than post-excavation airborne lead levels at the athletic field. Since the athletic field is both adjacent to the site and often has a target susceptible population (growing children), it represents an important location to assess for the efficacy of the lead-contaminated soil excavation. Total suspended particulate loads were similar for the on-site and athletic field locations both during pre-excavation and post-excavation. The wind direction was primarily out of the west on March 19, 1987 as it was during the post-excavation air sampling for July 10 to 14, 1987. The mean wind speed for March 19, 1987 was 6.30 miles per hour while it was 3.98 miles per hour for July 10 to 14, 1987. The slightly lower wind speed in July than during the baseline sampling period in March may be partly responsible for the greatly reduced lead levels seen in July 1987. It is likely that the greater contributions to a decrease in airborne lead levels at a downwind off-site location like the athletic field were the 90% reduction in surface particulates containing lead along with the increased vegetative cover created by more growing grass on site. The vegetative cover in turn should make it more difficult for a breeze to give rise to airborne particulates.

VI. CONCLUSIONS (continued)

The particularly high total suspended particulate (TSP) level in sample 001A (1.4 milligrams/cubic meter) at the athletic field on March 19, 1987 compared with post-excavation levels of <0.5 milligrams/cubic meter is probably due to the time of day reflected by the area air sample. This 5-hour sample was taken in the afternoon when there was significant vehicular traffic relative to the averaging effect of a 24-hour sample which was the standard air sampling period for all post-excavation lead air sampling. The traffic stirs up the settleable particulate matter on the road surface causing it to become airborne. If the wind is out of the west or north, this causes the airborne particulates to move towards the athletic field. Monitoring of weekly traffic loads indicated that an average of 8 to 10 vehicles/hour would go down the road between the contaminated lead site and the athletic field during the hours from 0800 to 1700. The traffic load was estimated to be half of this load for the same hours on weekends.

The on-site airborne lead levels were high, as would be expected, during the excavation period. The on-site air monitoring station was positioned adjacent to the area where the soil was stockpiled for subsequent transportation and disposal.

Personal air sampling for lead showed values between 10 and 535 micrograms/cubic meter. Under optimal circumstances the full face air purifying respirator (APR) with the appropriate high-efficiency particulate filters (HEPA filters) should afford the employee 100-fold protection against the ambient lead level. The reality is that these full-face APRs probably provide less protection because the employees move frequently and sweat during work activities. Both sweating and movement may result in the loss of a good seal between the face and respirator which would reduce the protection factor of the respirator. With the possible exception of Mr. Chester's job on March 26, 1987 inside the warehouse, the full-face APR represented adequate protection to ensure workers were not exposed to levels above the OSHA-PEL of 50 micrograms/cubic meter.

The one post-excavation airborne lead level of 1.32 micrograms/cubic meter on site would tend to support the possibility that ambient lead levels on site could exceed the 1.50 micrograms/cubic meter NAAQS for lead. Additional air sampling would be useful for provision of greater statistical validity. It is probable that with the passage of time there will be further reduction in the size of the "reservoir" of available lead particulates which should contribute to further decline in airborne lead levels on and off site. It is also possible that a more extensive vegetative cover could result in a further reduction in airborne lead levels on and off site.

LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

TABLE III

Pre-Excavation Lead Levels, ppm	Post-Excavation Lead Levels, ppm
1,010	1,010
17,000	2,410
58,400	11,800
150,000	285
64,600	4,480
101,000	22,000
7,700	1,250
16,300	3,700
130,000	12,800
77,000	1,380

Geometric Mean for Pre-Excavation Soil Lead Levels, ppm	Geometric Mean for Post-Excavation Soil Lead Levels, ppm
40,404	3,632

LANCASTER BATTERY SITE
MANHEIM TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

TABLE IV
Airborne Arsenic Levels for Four Highest Airborne Lead Level Locations Found During Post-Excavation Air Sampling

Sample	Location	Volume of Air Sampled Cubic Meters	Total Arsenic in Micrograms	Concentrations in Micrograms/ Cubic Meter
117	Athletic Field	1,900	6	0.003
118	On the Site	2,026	<4	<0.002
120	Athletic Field	2,008	<4	<0.002
124	On the Site	2,033	6	0.003
127	Field Blank	--	<4	--
128	Field Blank	--	<4	--
129	Field Blank	--	<4	--
130	Field Blank	--	<4	--

All detection limits for arsenic were <4 micrograms.

There is no National Ambient Air Quality Standard for arsenic. The Occupational Safety and Health Administration 8-hour Permissible Exposure Limit (OSHA-PEL) for arsenic is 10 micrograms/cubic meter.

WESTON • SPER 53 Haddonfield Road, Cherry Hill, NJ 08002 • (609) 482-0222

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-7367

MEMORANDUM

TO: Jack Downie, OSC, EPA Region III PCS #1137

THRU: Rich Habrukowich, TATL, Region III

FROM: Jennifer Brown, TATM, Region III

SUBJECT: Lancaster Battery Analytical Results

DATE: June 3, 1987

The following table summarizes the analytical results of soil samples taken at the Lancaster Battery Site, Manheim Township, Lancaster County, PA. Units are in ppm (mg/kg) and * denotes verbal results.

Date	Sample #	Lead	Type	Location
12/11/86	SØ1	270,000	Composite	Between AIN and motel
12/11/86	SØ2	130,000	Composite	Between AIN and motel
12/11/86	SØ3	380,000	Composite	SE of AIN adjacent to Vermont Ave.
12/11/86	SØ4	7,700	Composite	40' S of SØ3 across Vermont Ave.
12/11/86	SØ5	101,000	Composite	SE corner of storage warehouse
12/11/86	SØ6	150,000	Composite	Battery breaking area
12/11/86	SØ7	220,000	Composite	Furnace building concrete pad
12/11/86	SØ8	509,000	Grab	Between concrete footings
12/11/86	SØ9	79,000	Composite	Near blower port W of storage warehouse
12/11/86	S1Ø	17,000	Grab	In culvert W of Banner Foods
12/11/86	S11	47,000	Composite	In drainage channel S of culvert
12/11/86	S12	72	Grab	Home plate in athletic field
12/11/86	S13	230	Grab	N goal of soccer area in athletic field
12/11/86	S14	72	Grab	Athletic field - background
12/11/86	S15	77,000	Composite	Erosion channel N of furnace pad
02/06/86	S16	1,950	Composite	Athletic field parking lot across from motel
02/06/87	S17	16,300	Grab	Strip of grass behind motel (W edge)
02/06/87	S18	778	Grab	Between AIN and Banner office
02/06/87	S19	915	Grab	Filled area W of site
02/06/87	S2Ø	146,000	Composite	Floor of storage area
02/06/87	S21	4,140	Composite	Breezeway of motel
02/06/87	S22	1,980	Composite	Motel rooms - dust sample
02/06/87	S23	50,000	Composite	Motel office - dust sample

Roy F. Weston, Inc.
SPILL PREVENTION & EMERGENCY RESPONSE DIVISION
In Association with ICF Technology, Inc., C.C. Johnson & Malhotra, P.C., Resource Applications, Inc., Geo/Resource Consultants, Inc., and Environmental Toxicology International, Inc.

Lancaster Battery Analytical Results
June 3, 1987
Page Two

Date	Sample #	Lead	Type	Location
03/18/87	S21-Z	142	Grab	Athletic field - background
03/18/87	S22-Z	373	Grab	Filled area W of site
03/18/87	S23-Z	1,080	Grab	Athletic field parking lot - W edge
03/18/87	S24	1,020	Grab	Athletic field parking lot - E edge
03/18/87	S25	3,030	Grab	Strip of grass behind motel - E edge
03/18/87	S26-A	36,000	Core	(0"-3") Between AIN and motel
03/18/87	S26-B	438	Core	(3"-12") Between AIN and motel
03/18/87	S26-C	2,690	Core	(12"-20") Between AIN and motel
03/18/87	S27-A	64,600	Core	(0"-6") Staging area
03/18/87	S27-B	19,000	Core	(6"-14") Staging area
03/18/87	S28-A	34,800	Core	(0"-3") Battery breaking area
03/18/87	S28-B	60,900	Core	(3"-9") Battery breaking area
03/18/87	S29-A	5,830	Core	(0"-3") 6' south of Banner
03/18/87	S29-B	575	Core	(3"-12") 6' south of Banner
03/18/87	S30-A	58,400	Core	(0"-3") W of storage warehouse
03/18/87	S30-B	51,600	Core	(3"-12") W of storage warehouse
03/18/87	S30-C	24,900	Core	(12"-18") W of storage warehouse
03/18/87	S31-A	42,200	Core	(0"-3") Between concrete footings
03/18/87	S31-B	39,900	Core	(3"-12") Between concrete footings
03/18/87	S31-C	36,500	Core	(12"-16") Between concrete footings
03/18/87	S32	1,740	Grab	Front motel grass strip near pike

Excavation activities began.

03/23/87	S33	94,800	Grab	24" below surface in staging area
03/24/87	S34	789	Composite	Excavated area near AIN and Banner offices
03/24/87	S35	285	Grab	Core under asphalt pad
03/24/87	S36	63,200	Grab	Unknown buried tank near pad
03/24/87	S37		Composite	Landfill/RCRA parameter sample
03/25/87	S38	1,200	Composite	Athletic field swale 50'-60' from Vermont
03/25/87	S39	106,000	Composite	Excavated area between AIN and motel
03/25/87	S40	87,600	Composite	Excavated conc. pad/battery breaking area
03/25/87	S41	1,380	Composite	Excavated area N of concrete pad
03/25/87	S42	3,190	Composite	Excavated drainage ditch W of Banner
03/25/87	S43	16,600	Composite	Road on site leading to staging area
03/26/87	S44	2,410	Composite	Re-excavated drainage ditch W of Banner
03/26/87	S45	4,480	Composite	Re-excavated battery breaking area
03/26/87	S46	12,800	Composite	Re-excavated area between AIN and motel
03/26/87	S47	3,700	Composite	Excavated grass area S of motel and between AIN and back motel parking lot
03/26/87	S48	1,250	Composite	Test pits in parking lot by athletic field
03/26/87	S49	26,400	Composite	Excavated area W of storage warehouse
03/26/87	S50	118,000	Grab	Sludge from 8'x8' pit in warehouse
03/26/87	S51	184,000	Grab	Sludge from small pit in warehouse
03/26/87	S52	123	Grab	Athletic field - background

Lancaster Battery Analytical Results
June 3, 1987
Page Three

Date	Sample #	Lead	Type	Location
03/28/87	S53	12,300	Composite	Re-excavated area W of storage warehouse
03/28/87	S54	11,800	Composite	Re-excavated area W of storage warehouse
03/28/87	S55	8,090	Composite	Duplicate of S54
03/28/87	S56	8,740	Composite	Re-excavated area W of storage warehouse
03/28/87	S57	22,000	Composite	Excavated area N of Vermont and S of site
03/28/87	S58	78	Grab	N of culvert in drainage ditch
03/28/87	S59	1,010	Grab	Flat area adjacent to RR tracks
03/28/87	S6Ø	459	Grab	Athletic field swale 100' S of Vermont
03/28/87	S61	54	Grab	Athletic field swale 200' S of Vermont
03/28/87	S62	33	Grab	South soccer goal in athletic field
03/28/87	S63	13	Grab	Second base in athletic field
03/28/87	S64	170	Grab	Background in Long's Park 1/4 mile N of site
03/28/87	S65	247	Grab	Background at Pensupreme 3/4 mile S of site.
05/15/87	S66	5,070	Composite	Parkside Motel Office - dust sample
05/16/87	S67	2,220*	Grab	Excavated area between AIN and Banner
05/16/87	S68	17,200*	Grab	Excavated area between AIN and Banner
05/16/87	S69	11,900*	Grab	Excavated area between AIN and Banner
05/16/87	S7Ø	24,100*	Grab	Excavated area between AIN and Banner
05/19/87	S71	5,250*	Grab	Grid of excavated area bet. AIN and Banner
05/19/87	S72	4,420*	Grab	Grid of excavated area bet. AIN and Banner
05/19/87	S73	5,890*	Grab	Grid of excavated area bet. AIN and Banner
05/19/87	S74	3,410*	Grab	Grid of excavated area bet. AIN and Banner
05/19/87	S75	30,800*	Grab	Grid of excavated area bet. AIN and Banner
05/19/87	S76	7,090*	Grab	Grid of excavated area bet. AIN and Banner
05/19/87	S77	40,200*	Grab	Grid of excavated area bet. AIN and Banner
05/19/87	S78	14,700*	Grab	Grid of excavated area bet. AIN and Banner
05/19/87	S79	7,480*	Grab	Grid of excavated area bet. AIN and Banner
05/19/87	S8Ø	37,000*	Grab	Grid of excavated area bet. AIN and Banner
05/19/87	S81	27,900*	Grab	Grid of excavated area bet. AIN and Banner
05/19/87	S82	29,200*	Grab	Grid of excavated area bet. AIN and Banner
05/19/87	S83	12,100*	Grab	Grid of excavated area bet. AIN and Banner
05/19/87	S84	2,850*	Grab	Grid of excavated area bet. AIN and Banner

JLB:lal