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REPORT ON IMPLEMENTATION OF FINAL REMEDIAL ACTIONS AT THE WADE SITE IN CHESTER, PENNSYLVANIA

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SECTION 1

INTRODUCTION

1.1 Purpose

The purpose of this report is to describe and document WESTON's activities in monitoring the performance of the Contractor selected for implementation of remedial actions specified for the Wade site in the Superfund Record of Decision issued by the U.S. EPA on August 30, 1984 (see Appendix A). The prime contractor selected by the DER for this project was Rollins Environmental Services (FS), Inc. (hereinafter RES), of Chadds Ford, Pennsylvania. RES' activities, conducted pursuant to Contract ME-86311 dated December 22, 1986 (see Appendix B), took place between January 8 and July 9, 1987. The selection of the Contractor is described in a previous WESTON report to the DER entitled, "Evaluation of Proposals for Cleanup of the Wade Property", January 1987. In addition, WESTON's previous activities relative to the Wade site are described in the following reports:

- "Hazardous Waste Site Cleanup: Wade Property in Chester, Pennsylvania, Volume 1: Project Organization and Procurement of Contractors", January 1982.
- "Hazardous Waste Site Cleanup: Wade Property in Chester, Pennsylvania, Volume 2: Implementation of Initial Cleanup", August 1982.
- "Results of Soil Analysis and Cost Estimates for Selected Remedial Activities Regarding the Wade Hazardous Waste Site in Chester, Pennsylvania", Draft Report, November 1983.
- "Site Characterization Activities on the Wade Property, Chester, Pennsylvania", Draft Report, November 1983.

The DER's contract with RES and the Request for Qualifications and Proposals (RFQ/P) issued by the DER in July 1986, called for a seven-phased approach. The work associated with each phase is summarized below:

- Phase 1 - mobilization;
- Phase 2 - removal and disposal of seven empty tankers, one stationary tank, and several surface piles of non-hazardous scrap metal and wood;
- Phase 3 - removal and disposal of surface piles of crushed drums, tires, shredded rubber, and contaminated soil.
- Phase 4 - excavation, removal, and disposal of contaminated soil beneath the surface of the site;
- Phase 5 - demolition of all site structures (including buildings, storage silos, machinery, etc.) and placement of backfill to achieve rough grade elevations;
- Phase 6 - final grading including placement of select fill and topsoil followed by seeding; and
- Phase 7 - demobilization and project closeout.

In addition to the scope of work described above, RES performed certain activities that arose from unforeseen conditions at the site. These unforeseen conditions resulted in submittal of a series of change order requests by the Contractor (detailed in Section 3). In every instance, the conditions that lead to the change order requests were evaluated and verified by WESTON. Additionally, the change order requests were reviewed by WESTON and recommendations were made to the DER in regard to their acceptability.

Based upon field conditions, WESTON approved (and in some instances initiated) certain revisions to the specifications contained in the RFQ/P. These changes, which are detailed in Section 4, were performed by RES at no additional cost to the DER.

In performing the scope of work described in the RFQ/P, RES was compensated on a lump-sum-by-phase basis for a total fixed price of $2,966,287. Additionally RES was compensated on a time and materials (T&M) basis, totalling $_____ for work performed under change orders

approved by the DER. RES' total compensation for performing the remedial actions at the Wade site is therefore $_____. Details of these expenditures are provided in Section 2.4 and Section 3.

Work was begun by RES on January 8, 1987. WESTON's presence on-site was initiated on January 9, 1987 and remained essentially full-time through June 25, 1987. During the course of the remedial actions, WESTON's activities included:

- maintaining detailed written, photographic, and videotape records of site work;
- reviewing the qualifications and approving the use of transporters, disposal facilities and laboratories not included in RES' proposal;
- assisting in project coordination with local authorities;
- reviewing and approving the Contractor's requests for (and in some instances initiating) field modifications necessitated by unforeseen circumstances;
- monitoring implementation of the Contractors' health and safety plan;
- reviewing and evaluating change order requests;
- reviewing the Contractor's invoices for payment; and
- monitoring the overall performance of the Contractor.

The remedial actions implemented at the Wade site were completed in substantial conformance with the specifications in the RFQ/P and the ROD, except for certain changes due to unforeseen site conditions. These changes are described in Sections 3 and 4.

1.2 Site History and Initial Status

The Wade site, located at the intersection of Flower Street and Delaware Avenue in Chester, Pennsylvania, is an approximately 3-acre parcel where various chemicals had been received, stored, and disposed of in the site's soils. The site is bounded on its southwestern side by the right of way

for the Commodore Barry Bridge, on the northwest by Delaware Avenue and a railroad right of way, on the northeast by a Philadelphia Electric Company (PECO) property and on the southeast by the Delaware River.

The site previously housed the Eastern Rubber Recycling Co., a firm engaged in shredding tires, rubber, and other post-consumer articles. Photographs taken from the deck of the Commodore Barry Bridge by the DER in 1977 showed that drums of waste were emptied either directly onto the ground or into trenches (Figure 1-1). These activities contaminated much of the site. In February 1978, a severe fire occurred that resulted in the destruction of much of the drummed wastes stockpiled on-site. Due to the severity of the fire, the Commodore Barry Bridge was closed for six hours and 45 firemen were examined at a local hospital. One of the original buildings was completely destroyed during the fire and two others sustained heavy structural damage.

Following the fire, DER and EPA engaged a series of contractors to perform various remedial actions and studies at the site. A summary of these contracts, and the associated scopes of work is presented in Table 1-1.

A plan of the site conditions that existed at the initiation of the final remedial action is presented in Figure 1-2. Notable features include:

- seven structures varying in integrity from poor to moderate;
- four empty rubber storage silos and the associated air pollution controls (cyclones);
- seven empty tankers;
- a partially filled concrete sump;
- seven monitoring well installations; and
- eleven piles of soil and debris.

Important features not shown on Figure 1-2 are a pipe tunnel extending from grid 22 to grid 26 and an underground tank in grid 40. Heavy machinery associated with the rubber shredding operations was secured to the floor in two of the buildings with bolts approximately 2-inches in diameter. Electrical equipment associated with the heavy machinery was concentrated in three control panels. Two large boilers and the associated steam generating equipment were housed in the former boiler house.

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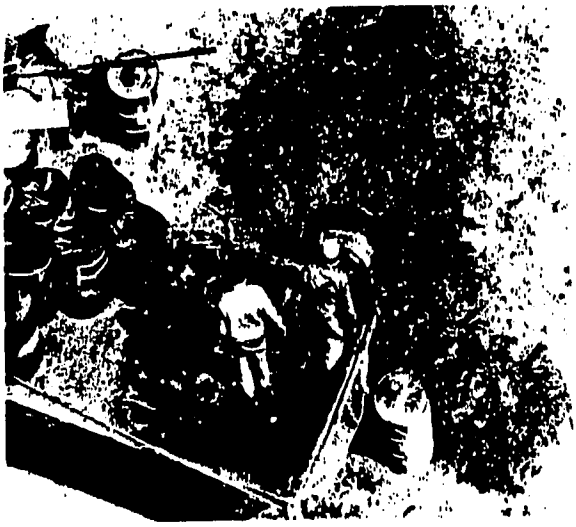

FIGURE 1-1 HISTORICAL PHOTOS (CIRCA 1977)

TABLE 1-1

CHRONOLOGY OF PREVIOUS CONTRACTS

Approximate Date	Contracting Agency	Contractor	Scope of Work
12/13/78 - 6/3/80	DER	Rollins	• Remove intact, accessible drums. • Remove (to the extent possible) hazardous materials in five tankers located near the front of the site. • Overpack and secure drums of PCB wastes.
1980	EPA	Rollins	• Remove and dispose of drums of PCB wastes.
1980	EPA	BCM/Wehran	• Perform site investigation after drum removal.
1983-1984	DER	CECOS	• Sort through surface debris and categorize into discrete piles. • Remove/dispose of non-empty drums. • Install test pits according to grid/quadiant system to enable soil sampling. • Analyze soil samples.
8/8/85	DER	VFL Technology Corp.	• Implement final remedial actions in accordance with the RFQ/P issued 9/14/84[1].

1 This contract was terminated due to the Contractor's inability to finalize disposal arrangements with qualified facility while maintaining bid price.

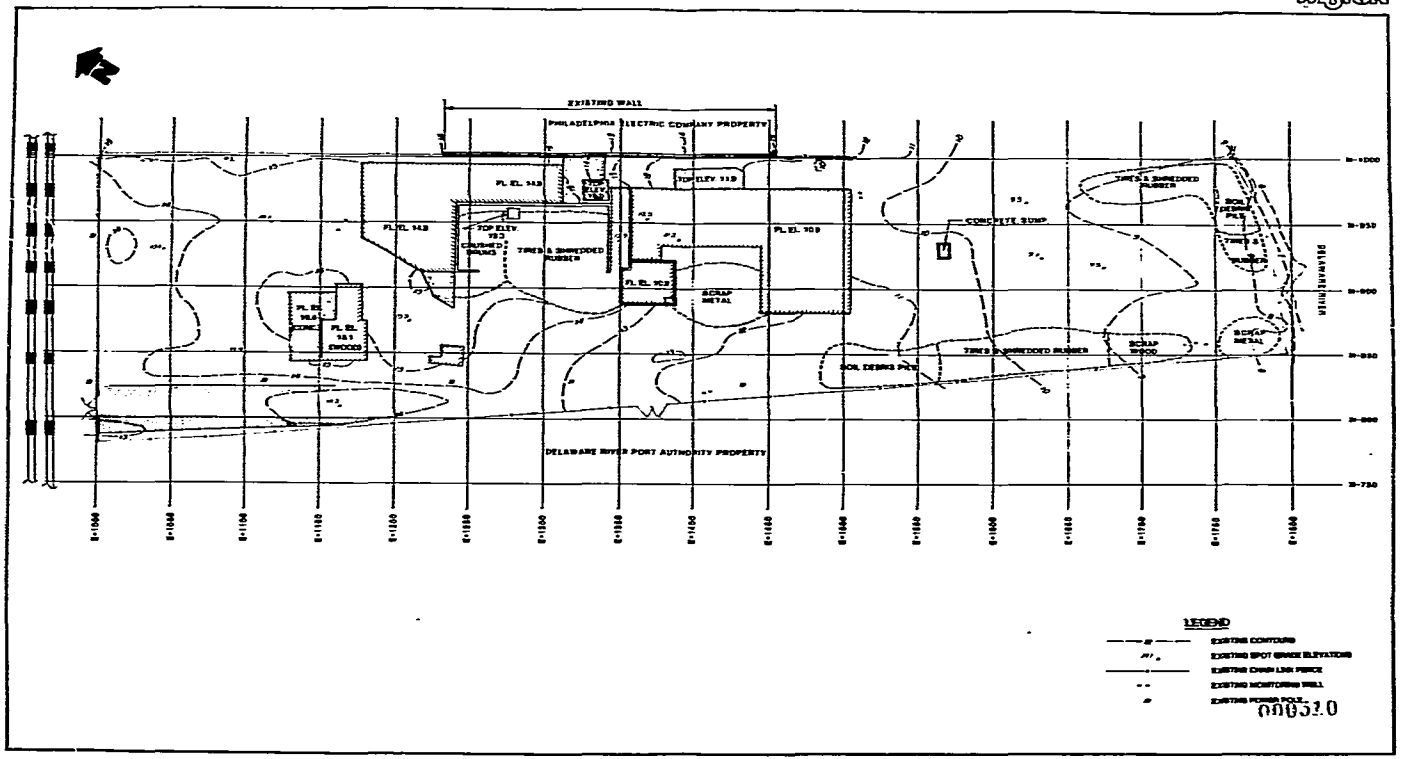

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FIGURE 1-2 EXISTING SITE FEATURES

The site was completely fenced, however, it was apparent that unauthorized persons did occasionally gain access to the property. This was supported by the fact that 11 drums and a substantial amount of general trash were discovered on-site during the pre-bid site inspection. The site was heavily vegetated with tall grasses and small bushes which somewhat restricted personnel movement in certain areas. Remnants from a number of the test pits, installed to enable soil sample collection during the site investigation were readily apparent at the inception of site work.

1.3 Current Site Status

The Wade site is currently a grass covered field sloping moderately from north to south. The only remaining "structures" inside the perimeter chain link fence are seven monitoring well installations and the extension of Flower Street that extends along the western fence line approximately to gridline E-1475 (see Figure 1-2). As a result of the removal of all buildings, waste piles and native brush, the site now affords an aesthetically pleasing view of the Delaware River and the Commodore Barry Bridge.

The following structures remain beneath the surface of the site:

- foundations and floor slabs from all former buildings;
- concrete sump;
- concrete mass in the southern third of the site believed to a remnant from construction of the bridge;
- 10,000-gallon underground fuel oil tank, currently filled with sand, and the adjacent retaining walls; and
- 12-inch diameter reinforced concrete pipe in the vicinity of the concrete sump.

1.4 Quantity Summary

Table 1-2 presents a summary of all of the wastestreams generated during the remedial action at the Wade site, including quantities generated, transporters, disposal facilities and disposal methods employed. Quantities presented in Table 1-2 were developed from transportation records maintained by RES.

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TABLE 1-2

OVERALL WASTE DISPOSAL SUMMARY

Wastestream Description	Quantity/Units	Transporter(s)	Disposal Facilities	Disposal Method
Scrap wood and debris	____ tons	J. R. Savoy	Petrillo Bros. Minquadale, DE	Landfilling
Scrap metal and tankers	____ tons	J. R. Savoy	Camden Iron & Metal Inc. Camden, NJ	Recycling
Contaminated soil, rubber crushed drums, etc.	5440.51 tons	Dart Trucking Co. Jack Gray Transport	CBX Services, Inc. Pinewood, SC	Landfilling
Wastewaters from several sources including vehicle decontamination, decontaminated tank cleaning, excavation dewatering, etc.	30,804 gallons	Chem-Clear, Inc.	Chem-Clear, Inc. Chester, PA	Biological Treatment
Sanitary wastewater	_____ gallons	Not applicable	DELCORA Chester, PA	Biological Treatment
Asbestos waste	____ pounds	?	?	Incineration
Non-hazardous soil & debris	____ tons	J. R. Savoy	Petrillo Bros, Minquadale, DE	Landfilling
Petroleum-laden soil	72.61 tons	J. R. Savoy	Grand Central Sanitation _____, PA	Landfilling
Transformer dielectric	35 gallons	RES(PA), Inc.	RES(NJ), Inc. Bridgeport, NJ	Incineration
Electrical capacitors	852 pounds	?	National Electric, Inc. Coffeyville, KS	Incineration
Compressed gas cylinders	4 cylinders	?	Cylinder Recon Kearney, NJ	?
Drums	____ pounds			Incineration
Sludge from Underground Storage Tank	20.64 tons		Thermal Kem Columbia, SC	?

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SECTION 2

DESCRIPTION OF LUMP SUM WORK

2.1 Phased Approach

The remedial action at the Wade Site was divided into seven distinct phases of work, described fully in the Request for Qualifications and Proposals (hereinafter the RFQ/P). A summary of the work and activities associated with each phase of the Project is presented in this section.

2.1.1 Phase 1 - Mobilization

Specifications for Phase 1 governed mobilization of the personnel, equipment, and facilities necessary for executing the work in the subsequent six phases. Activities under Phase 1 included establishing field offices, sheds, security services and staging/storage areas. Also as part of the mobilization activities, the Contractor was required to implement erosion control measures and to perform baseline perimeter air monitoring. An initial topographic survey of the entire site and identification of the 50 foot by 50 foot grid nodes were also planned as Phase 1 activities.

2.1.2 Phase 2 - Non-hazardous Debris Disposal

Phase 2 activities involved removal and disposal of non-contaminated surface debris including seven empty tankers, one empty tank, one pile of scrap wood, and two piles of scrap metal. The specifications for this work addressed cutting, loading, transportation, and disposal requirements. Provisions described in the RFQ/P for managing liquids found in the tankers and/or tank involved removal by draining to a holding tank and sampling/analysis prior to off-site disposal. Requirements for on-going activities including perimeter air monitoring, erosion and dust controls, and safety/emergency response applied to Phase 2 work.

2.1.3 Phase 3 - Disposal of Hazardous Waste in Surface Piles

The specifications for Phase 3 governed the removal and disposal of contaminated surface debris. Materials slated for removal and disposal under Phase 3 included one pile of crushed drums, two piles of soil and five piles of tires and/or shredded rubber. Requirements for closure of an

underground tank believed to contain an unknown volume of an oil/water emulsion involved sampling, analyzing, removal, and disposal of the contents, followed by pressure washing and backfilling with clean sand. Removal and disposal of one drum of unknown contents as well as eleven drums discovered on-site during the pre-bid site inspection were also specified as Phase 3 activities. Requirements for on-going activities, such as erosion and dust control, perimeter air monitoring, and safety/emergency response, were described in the specifications of Phase 3 work.

2.1.4 Phase 4 - Excavation and Disposal of Hazardous Waste Soils

Phase 4 involved the excavation, staging, and disposal of soil from certain pre-designated grids in accordance with the Soil Removal Plan, Drawing 102. The site was divided into 50 foot by 50 foot grids with each grid subsequently divided into four quadrants. The maximum depth of excavation for any given grid or quadrant was five feet. Excavations adjacent to existing fences and structures were required to include a one foot wide "buffer strip" to prevent damage due to undermining. The Contractor was required to excavate no more than three grids at any one time in order to minimize dusting and accumulation of contaminated surface water. Specifications for temporary stockpiling included provisions for covering the stockpiles with tarps or plastic sheeting.

One of the activities planned for Phase 4 was sealing an existing water service at the property boundary. The size and location of the service were unknown. Sealing the service was to be in accordance with requirements of the Chester Water Authority. Specifications for on-going activities applicable to Phase 4 work included requirements for dust, erosion and run-on/run-off controls, perimeter air monitoring, and safety/emergency response. Additionally, a topographic survey and update of the cross-sections were required at the completion of Phase 4.

2.1.5 Phase 5 - Demolition and Rough Grading

Phase 5 involved two distinct work activities:

- building and structure demolition; and
- backfilling and rough grading.

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With respect to the first activity, the Contractor was required to remove all buildings and structures in accordance with the Building and Structures Demolition Plan submitted as part of its proposal. Requirements for the demolition work included surface preparation (removal of debris), removal of wood and metal, removal of structural members, and toppling of masonry walls. Rubble generated during the demolition work could be backfilled on-site provided the dimensions of the pieces were less than 12 inches. Concrete floors and pads were required to be drilled prior to covering with backfill.

The second component of Phase 5 required the Contractor to place backfill and achieve rough grade elevations over the surface of the site. Backfill materials were to include rubble (as described above) and clean fill using an SM classification soil (silty-sands, sandy-silts). Subsurface structures and voids including the underground tank, a pipe tunnel in Grids 22 through 26, and the basement of the former office building were to be backfilled using clean sand. Requirements for backfilling included placement in 6-inch loose lifts followed by compaction to achieve a minimum uniform density of 90 percent of the maximum density determined using ASTM Method D-698. The Contractor was also required to perform compaction testing for each lift. A topographic survey followed by preparation of a topographic map and updating of the cross-sections was required at the completion of rough grading.

2.1.6 Phase 6 - Final Grading

Phase 6 involved final grading of the site, including placement of topsoil and seeding, followed by placement of site management controls. Soil with an ML classification (silts, silty clays, clayey silts, gravelly clays) was required to be placed and compacted into an 18-inch thick layer overlying the rough grade. A 6-inch, uncompacted layer of topsoil was required overlying the ML soil layer. Specification for seed mixes, seed bed preparation, planting, watering, and repair/maintenance were provided.

2.1.7 Phase 7 - Demobilization

Phase 7 involved demobilization and Project closeout. Work associated with this phase was essentially the inverse of Phase 1, i.e., removal (rather than establishment) of facilities and utilities. Provisions for final reporting by the Contractor were required.

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2.2 Schedule

2.2.1 Proposed Schedule

The RFQ/P specified that the work was to be executed in a sequential manner and that work on a given phase was not to be initiated until work on the previous phase had been completed. Additionally, the RFQ/P specified that the period of performance was not to exceed 120 calendar days. Bidders were required to submit a schedule as part of their proposals. The schedule contained in RES' proposal met the requirements of the RFQ/P in that a period of performance of 82 days was specified.

After completion of contract negotiations, WESTON learned that the period of performance for the contract had been extended to seven months after receipt of the Notice to Proceed. Inquiries to the DER indicated that the period of performance had been extended to account for possible weather delays anticipated for the winter months.

At the initial Project meeting at the site, it was learned that RES had extended its original schedule to encompass approximately six of the seven months in the period of performance. WESTON requested that RES submit a revised, detailed schedule for review by both the DER and WESTON. This request was made in writing on January 16, 1986 (Appendix C). RES' revised schedule is illustrated in Figure 2-1. During the course of the Phase 1 activities, it became apparent that overlapping would occur between the various phases of the work. Certain aspects of Phase 1, including construction of truck scales, repairs to the perimeter fence, and placement of sediment barriers at the site perimeter would lag into the period when Phase 2 activities were scheduled. A letter to the Site Supervisor, dated January 19, 1987 (Appendix C) identified the fact that Phases 1 and 2 were overlapping and that this was not in conformance with the requirements of the RFQ/P.

RES advised the DER and WESTON that it had been told during contract negotiations with the DER that any reasonable schedule was acceptable. It was RES' interpretation that some overlapping of phases was both reasonable and necessary. Following WESTON and DER review of the schedule, the work was allowed to proceed with some overlapping of phases.

The substantial overlap planned for Phases 4 and 5 gave rise to some health and safety concerns with respect to conducting several tasks posing differing degrees of hazard in the same or adjacent areas. RES submitted a formal

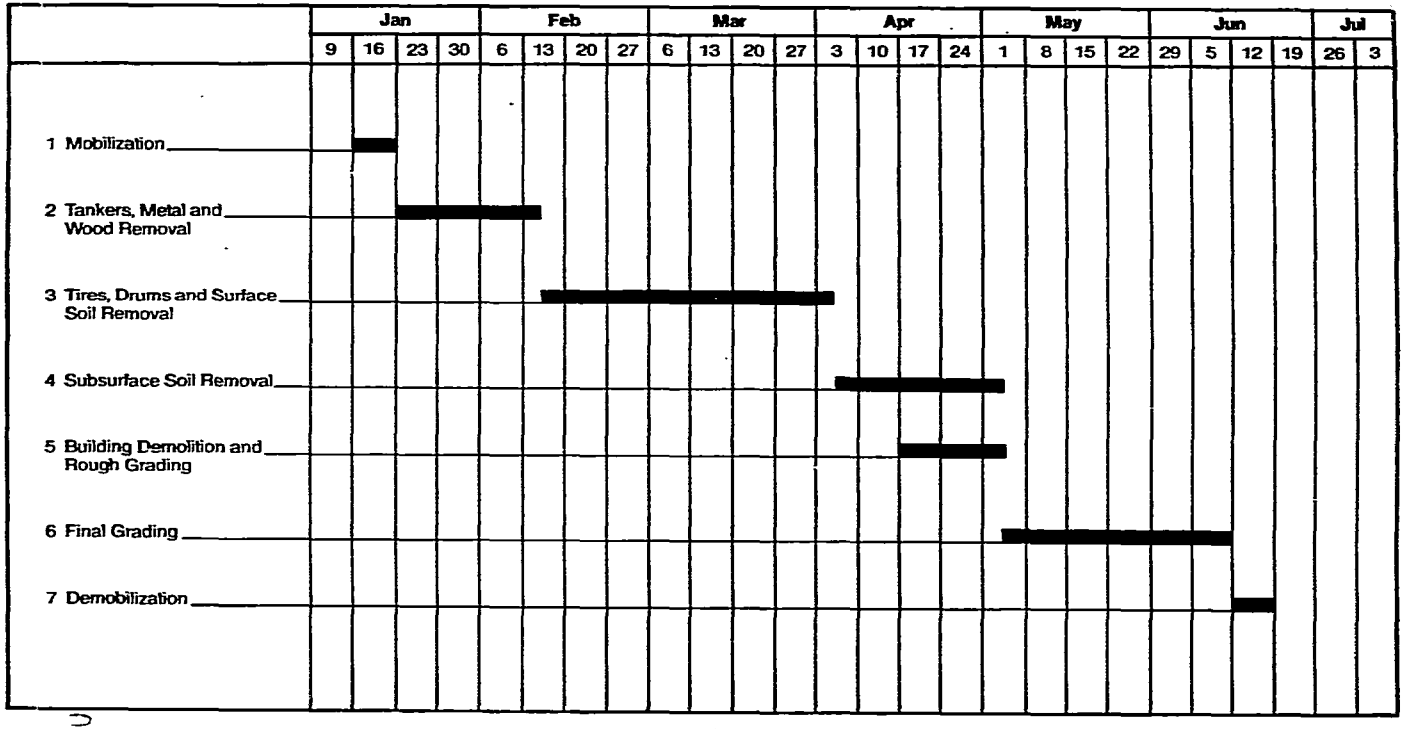

FIGURE 2-1 PROJECT SCHEDULE

request on January 31, 1987 for "progressive sequencing" of the Phase 5 demolition work. According to this request, demolition activities would occur in Phases 2 through 5, inclusive. Review and approval of this request is described in Section 4.6.1.

2.2.2 Actual Progress

The actual progress of the work is illustrated in Figure 2-2. It should be noted that less than one week of downtime was experienced due to weather delays. This was despite the fact that the site received two very heavy snowfalls during the month of January 1987.

Some schedule difficulties were experienced due to the protracted negotiations regarding the requests for Change Order Nos. 1 and 2 (see Section 3). Specifically, the soil stockpile, resulting partly from the sorting of the Grid 41 pile during Phase 3, was not transported off-site until late May 1987. This did not pose a substantial problem, as other phases were allowed to proceed essentially uninterrupted. However, the delay in disposal of the Grid 41 pile did pose some logistical problems regarding excavation of those soils underlying the pile.

A delay in the disposal of a pile of petroleum contaminated soil, originating from Grids 1, 17, 33, and 49, was attributed to difficulties in identifying an in-State disposal facility permitted (and willing) to accept this waste. Demobilization was completed while this waste was stockpiled on-site. Transportation and disposal necessitated remobilizing the Contractor's personnel and heavy equipment on July 9, 1987.

2.3 Contractor Performance

2.3.1 Phase 1 - Mobilization

RES initiated mobilization on January 8, 1987 with the delivery of two office trailers, a guard house, a personnel locker trailer, and an equipment trailer. The office trailers were blocked up and levelled for use during the pre-construction meeting held on-site on January 9, 1987. Installation of the required utilities, including electric, telephone, water, and sewer services, was completed in accordance with the requirements of the RFQ/P--Due to the impending winter weather, all water lines were traced with heat tape and insulated to prevent freezing.

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FIGURE 2-2. ACTUAL PROGRESS

(to be provided)

A great deal of other mobilization activities occurred within the first two weeks of site work, including:

- provision of 24-hour guard service and initiation of site access control;
- assembly of water storage tanks inside the former office building;
- construction of vehicle and personnel decontamination facilities (a temporary wooden vehicle decontamination pad was built pending assembly of the welded steel containment pad);
- excavation and installation of the footers and ramps for the on-site truck scale;
- installation of silt fence for erosion control during site work (frequent maintenance was necessary due to strong winds and inadequate installation of the silt fence); and
- collection of background perimeter air samples.

Some of these activities are illustrated in Figures 2-3 through 2-5.

RES subcontracted with H. Gilroy Damon Associates, Inc. of Sharon Hill, Pennsylvania to perform the initial topographic survey of the site. Due to the surface area occupied by the 11 debris piles throughout the site, RES submitted a request to the Site Representative to postpone the initial topographic survey until after the surface debris had been removed. The Site Representative approved the request, but advised RES that payment for Phase 1 would not be authorized until the initial topographic survey had been completed. RES proceeded with the initial topographic survey as specified in the RFQ/P.

Due to the somewhat limited working space available within the site, RES removed certain minor structures during Phase 1. One such structure was the main electrical substation located adjacent to Flower Street near the former grinding building. During removal of this structure, RES removed and staged one transformer and seven large capacitors. This electrical equipment was staged on the paved portion of Flower Street south of monitor wells B-4 and B-4A. Removal and disposal of the transformer and its dielectric fluid was accomplished during Phase 4 activities (Section 2.3.4). Disposal of the capacitors is discussed in Section 3.

FIGURE 2-3 ON-SITE FACILITIES

FIGURE 2-4 PERIMETER AIR MONITORING STATION

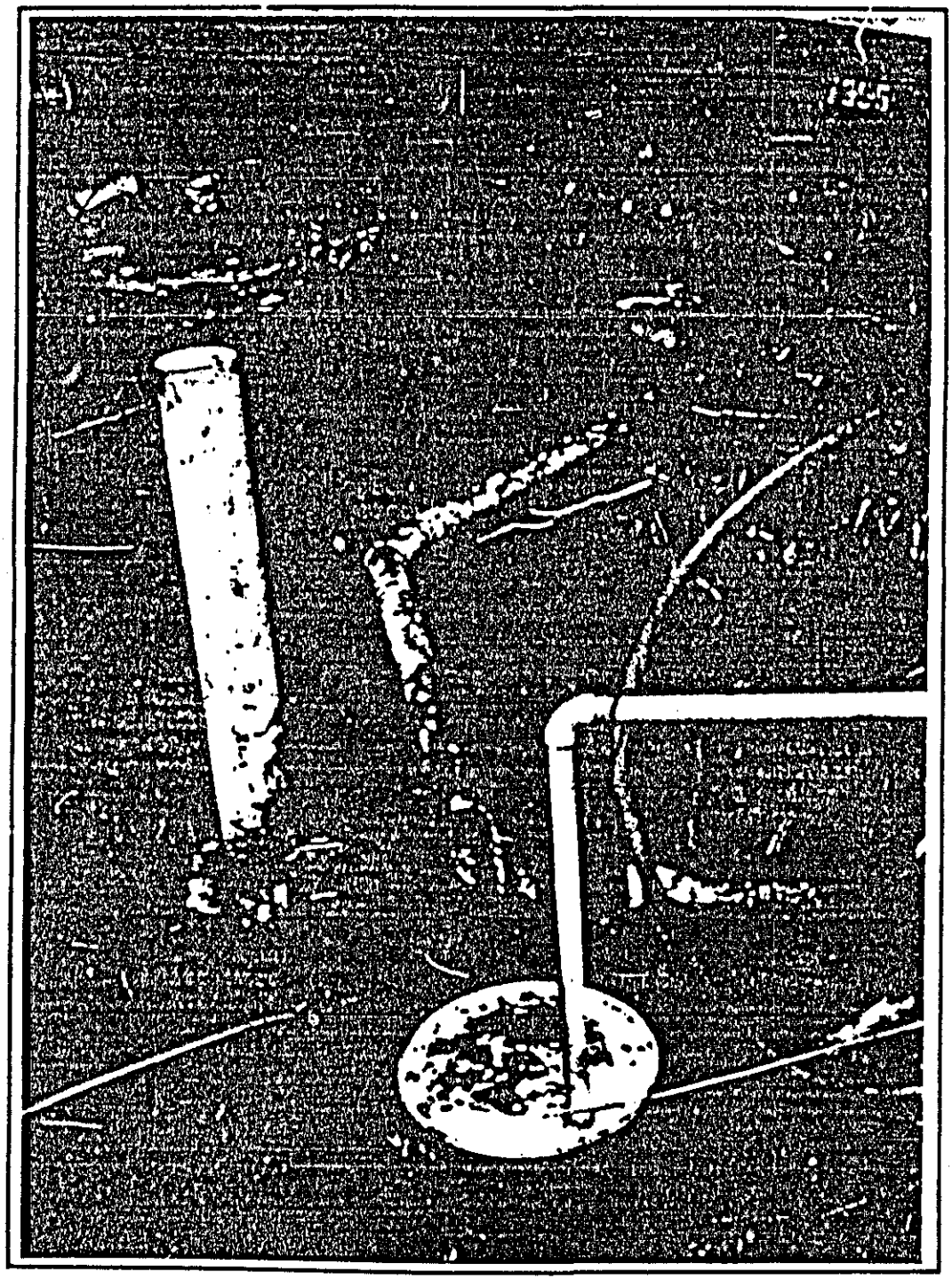

FIGURE 2-5 INSTALLATION OF SEPTIC WASTE SYSTEM 000523

Two important meetings were held during the Phase 1 mobilization activities. The pre-construction conference required by the RFQ/P was held on-site on January 9, 1987. Representatives of RES, DER and WESTON attended the meeting during which the project schedule, RES' anticipated need to conduct hot work, and the City's requirements during demolition were discussed. The second meeting was held at the Chester Municipal Building to discuss the planned work with the local authorities. Local truck routes, closure of the water main, and the City's requirements for vector (rat) control during demolition were discussed. As required by the RFQ/P, RES prepared minutes of both meetings.

2.3.2 Phase 2 - Non-hazardous Debris Disposal

RES initiated Phase 2 activities with the removal of accumulated stormwater from the seven tankers on-site. The water was transferred to one of two 5,000 gallon temporary tanks located on the first floor of the former office building (Figure 2-6). After the stormwater had been removed, the tankers were either loaded onto flatbed trailers or connected directly to a tractor for off-site transport.

RES advised the Site Representative that it intended to use torches to cut the tankers prior to transporting them to a scrap yard. As on-site hot work was prohibited by the specifications in the RFQ/P, RES elected to transport the tankers to a nearby yard where hot work could be performed. After cutting of the first tanker had been initiated, RES found that small amounts of residual solids were present in some of the tankers. The tankers which had been removed from the site were returned to the Wade Property for removal of the residual solids (see Section 3 for a description of this work). After final decontamination, the tankers were crushed and loaded onto demolition trailers for transport to a scrap yard in Camden, New Jersey.

RES also removed three piles of non-hazardous debris as part of its Phase 2 work. Two piles of scrap metal were loaded onto a demolition trailer for transport to a scrap yard, whereas scrap wood was transported and disposed of at the Petrillo Brothers landfill in Minquadale, Delaware.

2.3.3 Phase 3 - Disposal of Hazardous Waste In Surface Piles

RES' Phase 3 work was initiated with the removal of two piles of contaminated soil. The soil was loaded onto dump trailers for transport to the GSX landfill in Pinewood,

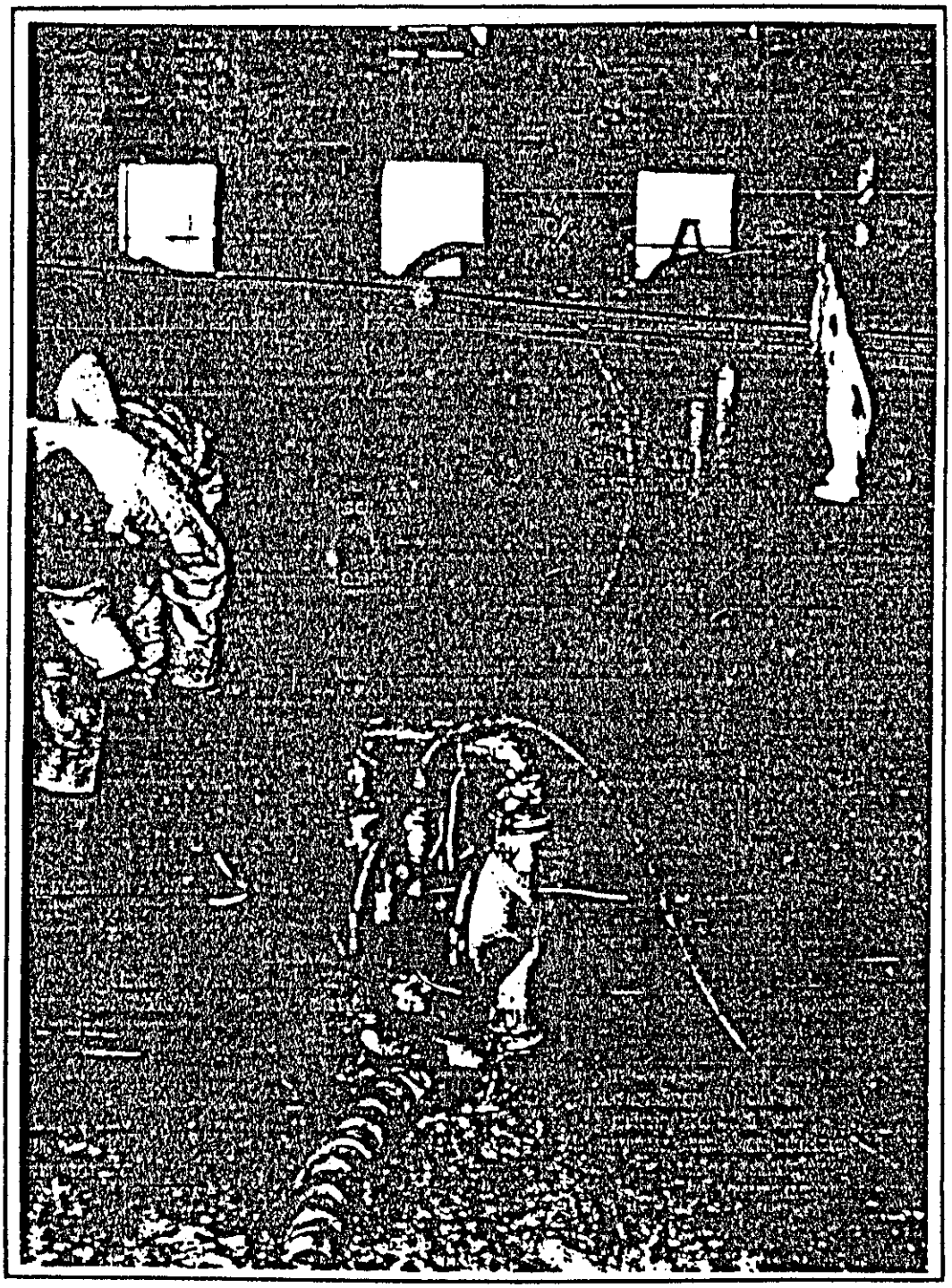

FIGURE 2-6 TEMPORARY WATER TANKS IN FORMER OFFICE BUILDING

South Carolina. Tare and loaded weights of the dump trailers were obtained and recorded using the on-site scale (Figure 2-7). The trailers were lined with plastic sheeting prior to loading. Prior to departing the site, the loads were tarped to prevent loss of the soil during transport and the required documents including weight records, bill of lading, and hazardous waste manifests were completed and provided to the transporter. It should be noted that RES prepared the manifests for signature by the DER.

A second component of RES' Phase 3 work was the removal and disposal of five piles of contaminated tires and/or shredded rubber. RES utilized a transportable shredder to process the tires for volume reduction. Concurrent with the shredding work, RES fabricated a process for decontaminating the shredded rubber. The process consisted of two rotating cylinders fitted with internal spray bars and liquid collection sumps (Figure 2-8). The washing liquid utilized in the first rotating cylinder contacted the shredded rubber only once prior to being transferred to the water storage tanks inside the former office building. The rinse water utilized in the second cylinder was recycled and replenished as needed. Due to operational problems during shakedown of the rubber washing process, RES elected to decontaminate only a small portion of the shredded rubber. The shredded rubber was subsequently loaded into dump trailers and transported to GSX in Pinewood, South Carolina. The loading and record-keeping procedures previously described for contaminated soil were also employed for the shredded rubber.

The last major component of the Phase 3 work was closure of the underground tank near the former boiler house. RES initiated this work by measuring the depth of the contents of the tank and estimating the quantities of material contained in the tank. RES estimated the size of the tank was approximately 10,000 gallons. RES also learned that the tank contained a predominantly aqueous layer overlying a thick black sludge believed to be residual fuel oil for the boiler house. These findings were communicated to the DER, as they differed substantially from the assumptions stated in the RFQ/P.

RES proceeded with closure of the underground tank in accordance with the requirements of the RFQ/P. A square opening was cold cut in the top of the tank to facilitate personnel entry. The wastewater layer was removed by transfer into a vacuum trailer and was disposed at Chem-Clear in Chester, Pennsylvania. The underlying sludge was removed using a high-vacuum truck. The sludge was subsequently transferred into drums and small, lined containers and staged adjacent to the former office building (Figure 2-9). Residual solids were removed using shovels and

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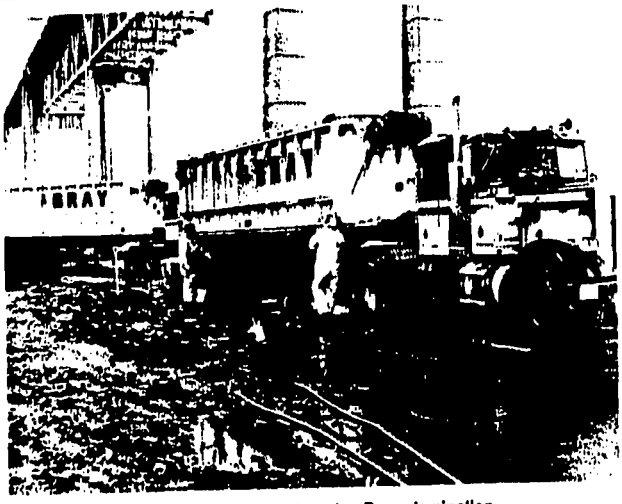
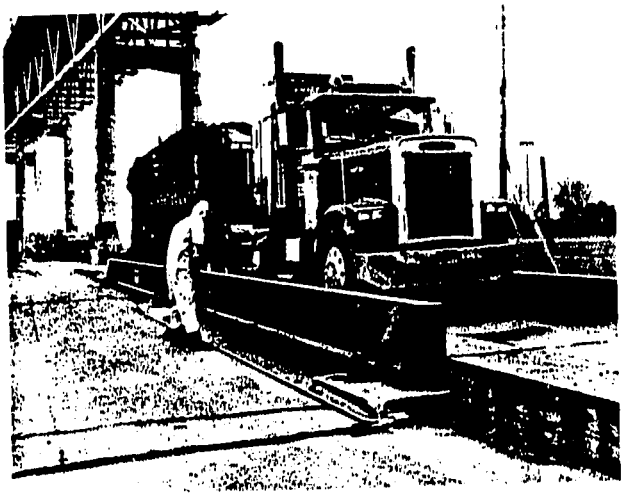


1. Dump Trailer Undergoing Decontamination On Steel Containment Pad.



2. Transport Vehicle Being Weighed Prior To Departure.

FIGURE 2-7 TRUCK DECONTAMINATION AND WEIGHING

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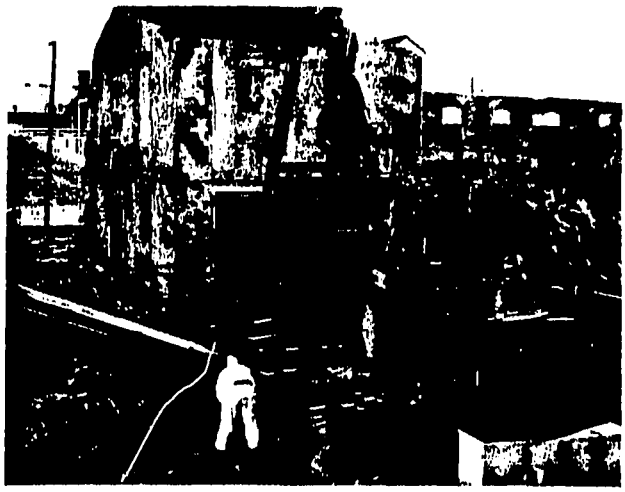

1. Transportable Tire Shredder

2. Shredded Rubber Decontaminating Processor

FIGURE 2-8 TIRE SHREDDING AND DECONTAMINATION

FIGURE 2-9 TRANSFERRING OILY SLUDGE INTO DRUMS

buckets prior to pressure washing the internal surfaces of the tank (Figure 2-10). The wastewater resulting from the pressure washing work was removed by vacuum truck and the tank was filled with sand.

2.3.4 Phase 4 - Excavation and Disposal of Hazardous Waste Soils

RES initiated excavation of soils according to the Soil Removal Plan (Drawing 102) within the grids located near the front fenceline. The soils were stockpiled near the former office building (Figure 2-11) prior to loading, transport, and disposal according to the procedures described in Section 2.3.3 for the surface piles. Excavation of the soils along the front fenceline resulted in a noticeable aromatic odor; however, this was of very short duration and was observed only in the immediate vicinity of the site (within approximately 25 feet). Perimeter air samples on the front fence revealed that air quality in the area was well below the action limits set for the site.

Excavation in the southern portions of the site revealed the presence of a large concrete mass, encountered at depths of one to two feet. The concrete was found to be up to three feet thick and was believed to be associated with washout of concrete delivery trucks during construction of the adjacent bridge. The existence of the mass was recognized in the RFQ/P and it was determined that removal of the concrete was not practical (see Section 4.6.2).

2.3.5 Phase 5 - Demolition and Rough Grading

RES executed the demolition work during Phases 3, 4, and 5, as described in Section 4.6.1. Selected demolition activities are illustrated in Figures 2-12 through 2-14. A significant difficulty during this phase was controlling and authorizing the use of hot work to remove selected structures and equipment. Specifically, torches were used to cut the based of the rubber storage silos and grinding machinery mounts. This occassionally resulted in the ignition of rubber tires in the vicinity of the torch cutting.

The second component of the Phase 5 work was the placement of rough grade. Building rubble (structural fill) was utilized throughout much of the site as the initial backfill material. The fill was transported on-site in a tandem axel dump truck and placed using a hydraulic excavator. The structural fill was covered with select fill imported from a nearby borrow source. Geotechnical data on the select fill is provided in Appendix P. The rough grade

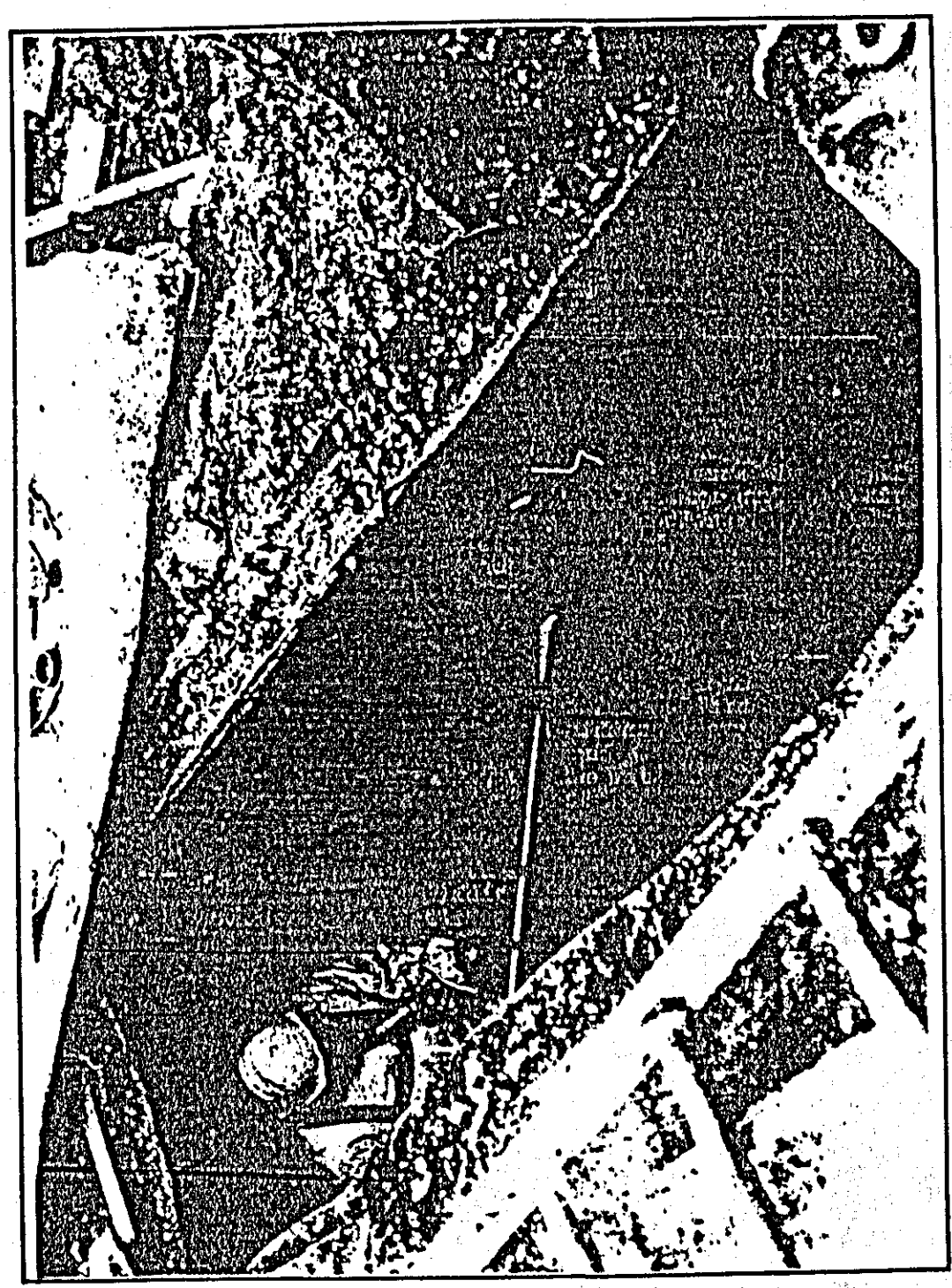

FIGURE 2-10 PRESSURE WASHING INTERIOR OF UNDERGROUND STORAGE TANK

FIGURE 2-11 EXCAVATED SOIL STOCKPILE

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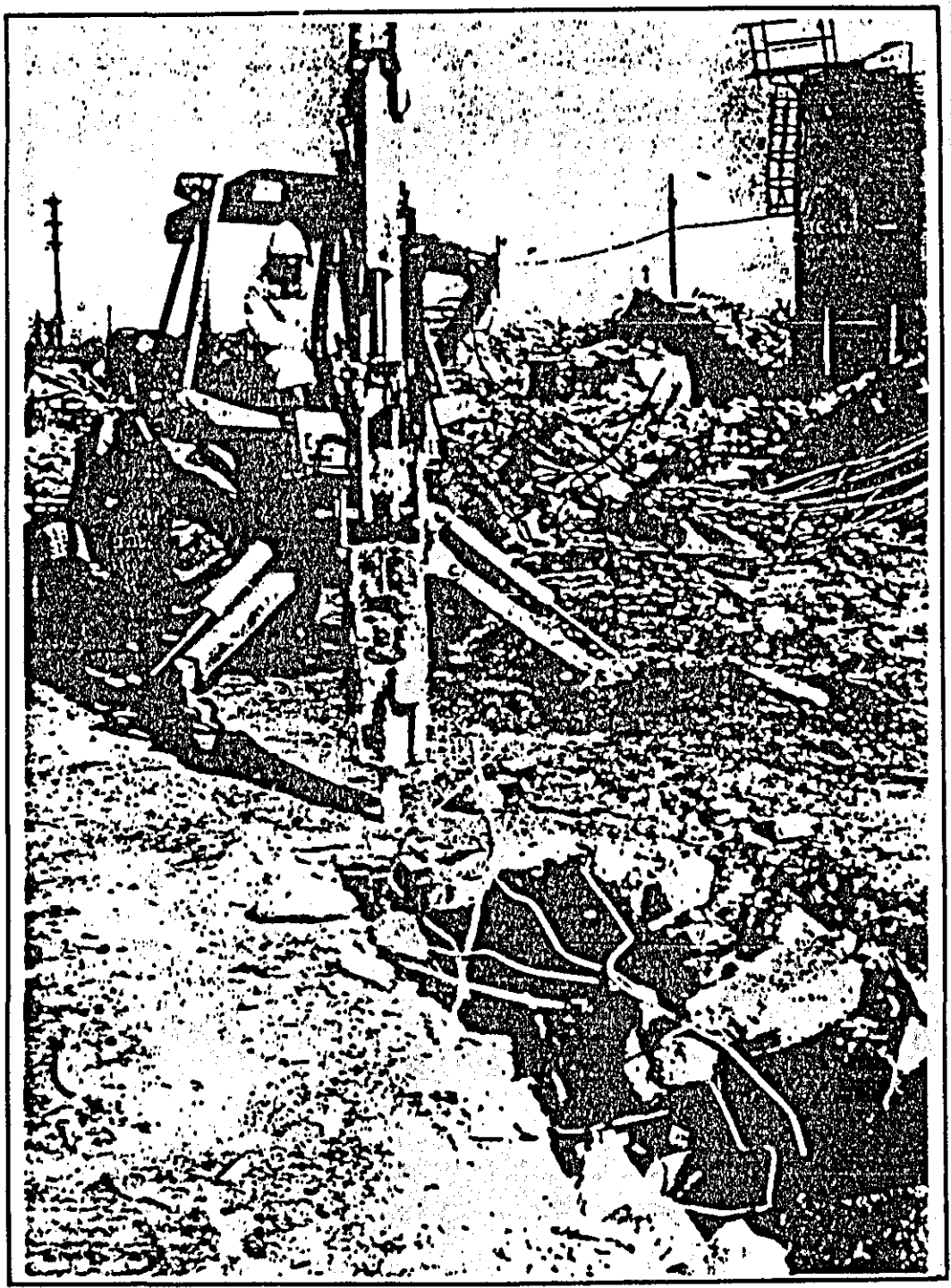

FIGURE 2-12 DEMOLITION OF PIPE TUNNEL

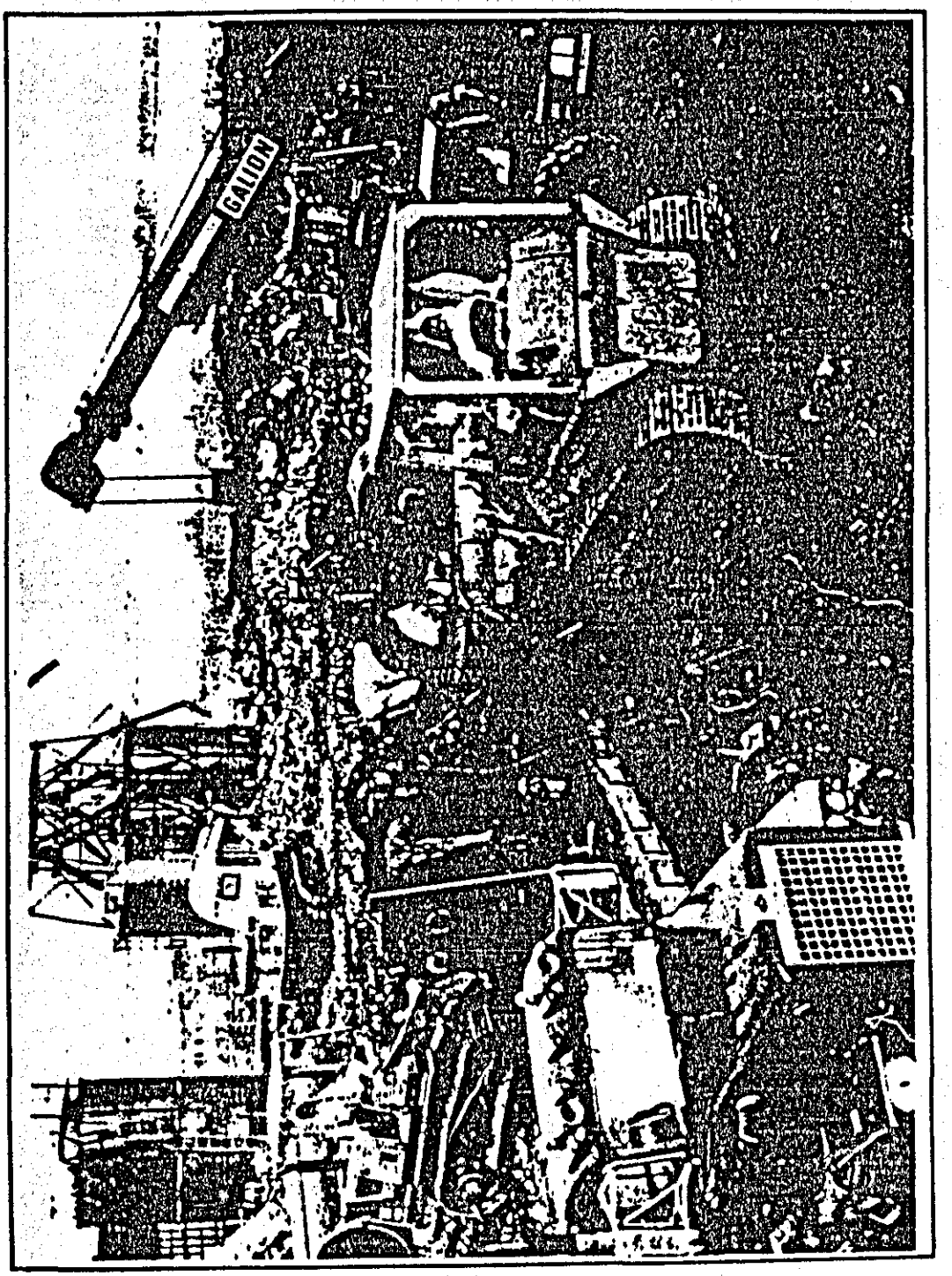

FIGURE 2-13 REMOVAL OF GRINDING MACHINERY

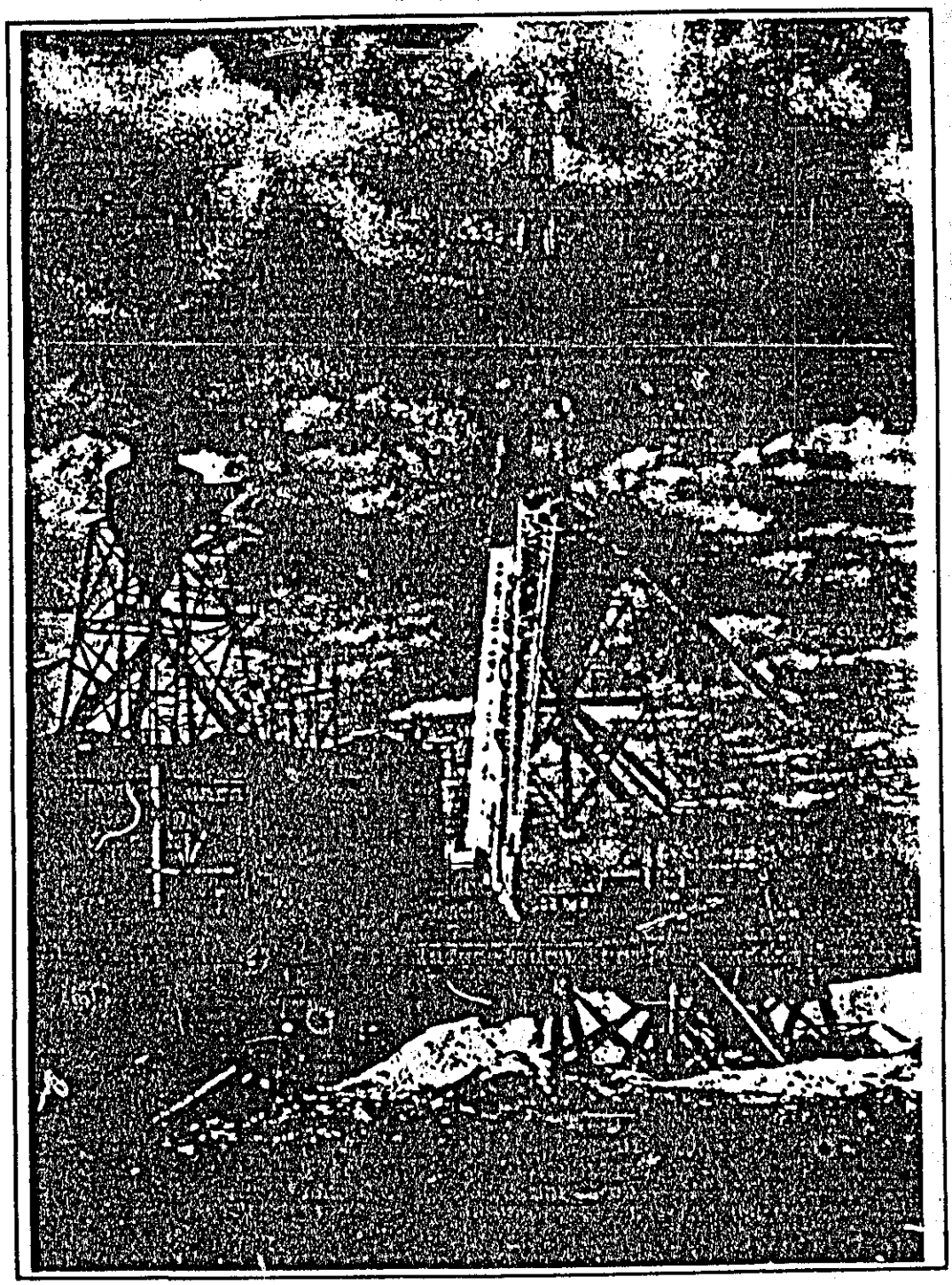

FIGURE 2-14 DISMANTLING OF THE RUBBER STORAGE SILOS

was compacted using a vibratory roller and the degree of compaction was measured on each lift using a nuclear density gage. Difficulties were encountered in achieving the compaction specification in several grids (see Section 4.6.6).

2.3.6 Phase 6 - Final Grading

RES' site work was essentially completed with the placement of final backfill and long-term site management controls. The rough grade was covered with 18 inches of select fill (see Appendix P for geotechnical data) followed by a 6-inch layer of topsoil and mulch. The site was seeded by a hydroseeder.

Site management controls included improvements to the existing silt fencing and construction of two sediment barriers (one in each of the drainage swales). The sediment barriers were constructed of washed stone in accordance with the material specifications in the RFQ/P (see Figure 2-15).

2.3.7 Phase 7 - Demobilization

RES demobilized its personnel and equipment in mid-July 1987. The truck scales were disassembled and the ramps and footers were demolished and the footer excavations in Flower Street were returned to grade by patching with bituminous material. All of the utilities were disconnected and the temporary sewage holding tank was removed, crushed, and disposed off-site. The office and supply trailers were transported off-site and guard services were discontinued.

2.4 Reports

A number of reports were generated at various points and frequencies during the course of the remedial action. Several of these reports were Contractor submittals required by the specifications of the RFQ/P, whereas others were reports issued by WESTON or the DER. An overview of the various reports generated during the remedial actions at the Wade Site is provided in this section.

2.4.1 Meeting Minutes

Section 13.7.1 of the RFQ/P requires the Contractor to schedule and conduct progress meetings at a frequency of twice per month. During the initial phases of the Project,

FIGURE 2-15 SEDIMENT BARRIER IN WESTERN DRAINAGE SWALE

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progress meetings were conducted on a much greater frequency, sometimes as often as one per day. The frequency of these meetings generally decreased as the work moved into the backfilling phases and as the lines of communication became more defined.

The RFQ/P required the Contractor to maintain certain records associated with the progress meetings. The formal agenda specified in the RFQ/P were not required by the Site Representative; however, written minutes were required. Copies of the progress meeting minutes are provided in Appendix T. At the suggestion of RES, it was agreed that both the Site Supervisor and the Site Representative would sign the progress meeting minutes.

2.4.2 Bi-monthly Progress Reports

Section 13.8.3 of the RFQ/P required the Contractor to prepare and submit bi-monthly progress reports. The purposes of these reports were to:

- update the Project schedule;
- report on activities completed as the basis for payment; and
- discuss current and anticipated problems, delays, and corrective actions.

RES submitted progress reports on a semi-monthly frequency, primarily due to the accelerated pace of the site work. These reports relied primarily on the use of the phase checklists prepared by WESTON as a means of documenting activities that had been completed. Copies of RES' progress reports are provided in Appendix S.

2.4.3 Phase Completion Reports

On its own initiative, RES prepared and submitted Phase Completion Reports. These reports employed the phase checklists developed by WESTON as a means of documenting the completion of a given phase of work. Copies of the Phase Completion Reports are provided in Appendix S.

2.4.4 Phase Out Report

Section 13.4.7 of the RFQ/P requires the Contractor to submit a Phase-Out Report at the completion of the work. The contents of the Phase Out Report were to include:

- a certification regarding decontamination of the site;
- a description of the procedures and techniques used to decontaminate equipment, vehicles, the shower facility, and the laundry facility; and
- signature of the Site Supervisor.

A copy of RES' Phase Out Report for this Project is provided in Appendix S.

2.4.5 Oversight Reports

A key aspect of WESTON's oversight of the Contractor's performance was the preparation of daily reports. These reports, presented in Appendix D, documented:

- the work performed by RES and its subcontractors;
- personnel, equipment, and materials used;
- comments, problems, and agreements made;
- test data received; and
- visitors to the site.

2.4.6 Comptroller's Audit Report

On February 13, 1987 Mr. Jim Johnson of the Commonwealth of Pennsylvania, Department of Treasury - Comptroller's Office, visited the Wade Site to review the types of records maintained by the DER, WESTON, and RES. Mr. Johnson's site visit subsequently led to an audit of the Project. A copy of the Comptroller's Audit Report is provided in Appendix T.

(NOTE: Additional narrative to come describing corrective actions to the problems cited in the Audit Report.)

2.5 Payment

2.5.1 Phase Completion Checklists

Prior to the initiation of site work, WESTON developed a set of Phase Completion Checklists to monitor the progress of the Contractor and to serve as an aid in determining

payment. The checklists included all of the work items specified in the RFQ/P and any additional work items RES included in its proposal submitted to the DER in response to the RFQ/P. As RES submitted invoices for phases it believed were complete, the DER and the Site Representative reviewed the checklists to ensure that the work invoiced had in fact been completed.

2.5.2 Payment

Copies of all of RES' invoices and related payment documents are included in Appendix E. RES was compensated on a lump-sum-by-phase basis for a total fixed price of $2,966,287. Additionally, RES was compensated on a time and materials basis for work performed under change orders approved by the DER for a total of $ _____. RES' total compensation for the work described herein was therefore $ _____. A summary of these payments is provided in Table 2-1.

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TABLE 2-1

PAYMENT SUMMARY

Phase	Date Invoiced	Invoice Number	Amount Invoiced	Date Payment Approved
1	2-25-87	14066	$ 104,804.00	3-25-87
2	2-25-87	14066	119,537.00	3-25-87
3	5-12-87	14081	826,719.00	5-14-87
4	5-12-87	14078	1,300,262.00	5-14-87
5	6-19-87	14092	410,116.00	6-26-87
6	7-17-87	14097	199,572.00	(1)
7	7-17-87	14097	5,177.00	(1)

(1) Approval pending transmittal of project records to DER.

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SECTION 3

DESCRIPTION OF OUT-OF-SCOPE WORK

3.1 Overview

During the course of the remedial action, certain unforeseen site conditions were encountered, ranging from minor findings, which the contractor addressed at no cost to the DER, to significant discoveries. The significant discoveries are classified as such because they resulted in submittal of series of change order requests by RES. Each of these requests, along with WESTON's evaluation and recommendations to the DER on those requests, is described in this section.

A summary of the change order requests is provided in Table 3-1. It should be noted that the DER Cleanup Director and the WESTON Site Representative (or both) were usually appraised of the unforeseen site conditions shortly after discovery. This initial notification was communicated to the DER Contract Officer.

3.2 Change Order Nos. 1 and 2

The first change order request, designated by RES as "Change Order No. 1", was submitted via a letter from Mr. Richard Jaffe of RES to Mr. Donald Becker of the DER, dated January 29, 1987. Copies of this letter and other correspondence relating to this change order request are contained in Appendix F. The request for Change Order No. 1 described three items RES believed were out-of-scope, including:

- On January 13, 1987, RES discovered seven large capacitors in the brick electrical substation building on-site. Subsequently, on January 21, 1987, WESTON observed three other capacitors in the warehouse portion of the building. These units were suspected of containing PCB dielectric fluid.

- On January 20, 1987, RES determined that the pile in grids 25, 26, 40, and 41, as shown in Figure 1-2, (collectively referred to as the Grid 41 pile), identified in the RFQ/P as a scrap metal pile, contained debris in addition to the scrap metal. The pile consisted of a scrap metal layer overlying a pile of soil,

TABLE 3-1

SUMMARY OF CHANGE ORDER REQUESTS

Change Order Number	Item Number	Description of Work	Reimbursement Requested	DER/RES Negotiated Settlement (1) (2)
1	1	Remove and Dispose of PCB Capacitors	$ 6,012.04	$ 4,372.39
	2	Sort and Dispose of Materials in Grid 41	168,930.18	Pending Disposal Costs (3)
	3	Remove Residual Solids from Tankers	17,395.49	11,467.91
		CHANGE ORDER NO. 1 SUBTOTALS	$192,335.71	$(15,840.30)
2	1	Test Electrical Panels for PCB	567.24	567.24
	2	Sample Transformer Dielectric for PCB		
	3	Dispose of Compressed Gas Cylinders	No Cost Proposal Submitted to Date	No Negotiations to Date
		CHANGE ORDER NO. 2 SUBTOTALS	$ 567.24	$ 567.24
3	1	Closure of 10,000 Gallon Underground Tank	$ 28,524.71	No Negotiations to Date
4	1	Removal and Disposal of 105 CY of Hydrocarbon Contaminated Soil	No Cost Proposal Submitted to Date	No Negotiations to Date
		TOTALS	$221,430.66	$ 16,407.54 (4)

(1) Costs representing negotiated settlements are based on rates submitted by RES in its change order requests. DER and RES are negotiating labor and equipment rates which will be used to revise the negotiated settlements presented.

(2) WESTON presented initial recommendations to the DER regarding each change order item and these recommendations were used by the DER as its basis for negotiating with RES. In certain instances, WESTON's cost recommendations were revised upward following receipt and verification of additional information from RES.

(3) Final negotiations subject to identification of an appropriate disposal facility.

(4) Total costs subject to revision based upon on-going negotiations.

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timbers, concrete block, tires and other debris. These other materials were not discovered prior to RES' work because they were obscured by the overlying scrap metal. The reason why these other materials were present in the scrap metal pile is not known.

- On January 22, 1987, RES inspected the seven tankers, identified in the RFQ/P as empty, and determined that three of the tankers contained small amounts of residual solids. The total quantity was estimated at less than two cubic yards.

  Mr. Jaffe's letter of January 29, 1987, also included a request for Change Order No. 2, including the following three items:

  - sampling and analysis of the electrical panels in Grids 26 and 9 to determine whether PCBs were present in the oily residues around the panels.

  - sampling and analysis of the dielectric fluid in a transformer housed in the electrical substation that once served the facility.

  - removal and disposal of several compressed gas cylinders found on-site.

It should be noted that the Site Representative inspected the seven capacitors discovered by RES and found that one of the insulator posts on one of the units was slightly damaged and had leaked some dielectric fluid onto the capacitor casing. Additionally, two of the capacitors found in the warehouse building were examined by the Site Representative and were found to be damaged and leaking. In light of these observations, RES was directed to place the capacitors in DOT approved drums containing a granular absorbent and to label the drums with a PCB marking (see letter dated January 21, 1987 from WESTON's Site Representative to the DER Cleanup Director, Appendix C). These actions were deemed necessary to ensure compliance with TSCA regulations (40 CFR 761).

RES decided to initiate means of addressing each of the items covered in the request for Change Order No. 1 at its own risk, i.e. prior to execution of a contract amendment for these items. This decision was made primarily with the intent of averting a substantial delay in the progress of

the work. RES' decision to proceed "at risk" was communicated to the WESTON Site Representative, who, in turn, informed the DER Cleanup Director and Contract Officer of RES' "at risk" approach. The DER decided that in the interests of completing the project on schedule, the "at risk" approach was acceptable. Furthermore, it was decided that WESTON would monitor RES' activities relating to the three items described above, as though this work was being conducted on a time and materials basis.

The at risk work performed by RES on the PCB capacitors involved packing the units in drums as described previously. The drums were staged on-site during most of the remedial action pending identification of a qualified disposal facility. The capacitors were transported to National Electric in Coffeyville, Kansas for incineration.

The at risk work performed by RES on the Grid 41 pile included sorting through the material rejected by the scrap yard (and returned to the site) as well as that remaining in Grid 41. Use of an industrial electromagnet was attempted for removing ferrous metal, but this was quickly found to be ineffective. A hydraulic excavator was successfully used to sort through the pile. Scrap metals were loaded onto demolition trailers for transport to Camden Scrap Iron and scrap wood and soil were transported to the Petrillo Brothers landfill in Minquadale, Delaware.

Removal of the tanker solids was a relatively difficult task as reciprocating saws were used to cut through the steel sidewall of the tankers (Figure 3-1). The residual solids were initially removed using hand tools; however, when this was found to be prohibitively slow, heavy equipment was used to bang the tankers on the ground. The residual solids were collected and placed in a stockpile of contaminated soil using a front-end loader. An estimated one to two cubic yards of residual solids were accumulated in this manner. The tanker shells were crushed and loaded onto demolition trailers for disposal as scrap metal (Figure 3-2).

As directed by the DER Contract Officer, WESTON reviewed Mr. Jaffe's letter of January 29, 1987 and determined that the technical approaches outlined in that letter were not sufficiently detailed for a thorough evaluation of the requests for Change Order Nos. 1 and 2. A request for supplemental information was made by means of a letter dated February 9, 1987 from WESTON's Site Representative to RES' Site Supervisor. RES responded to this request for supplemental information in a memorandum dated February 11, 1987

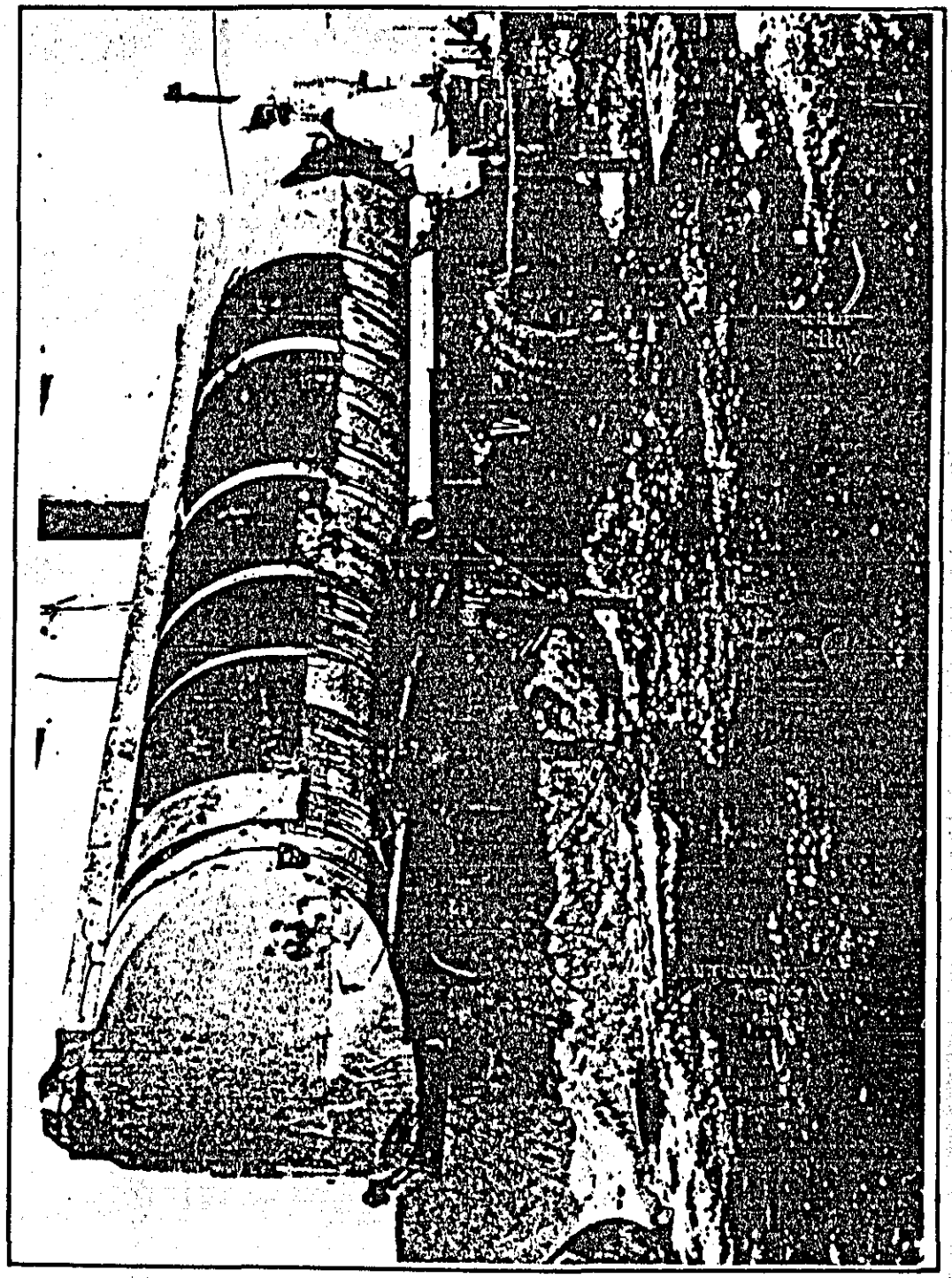

FIGURE 3-1 CUTTING TANKER SIDEWALLS

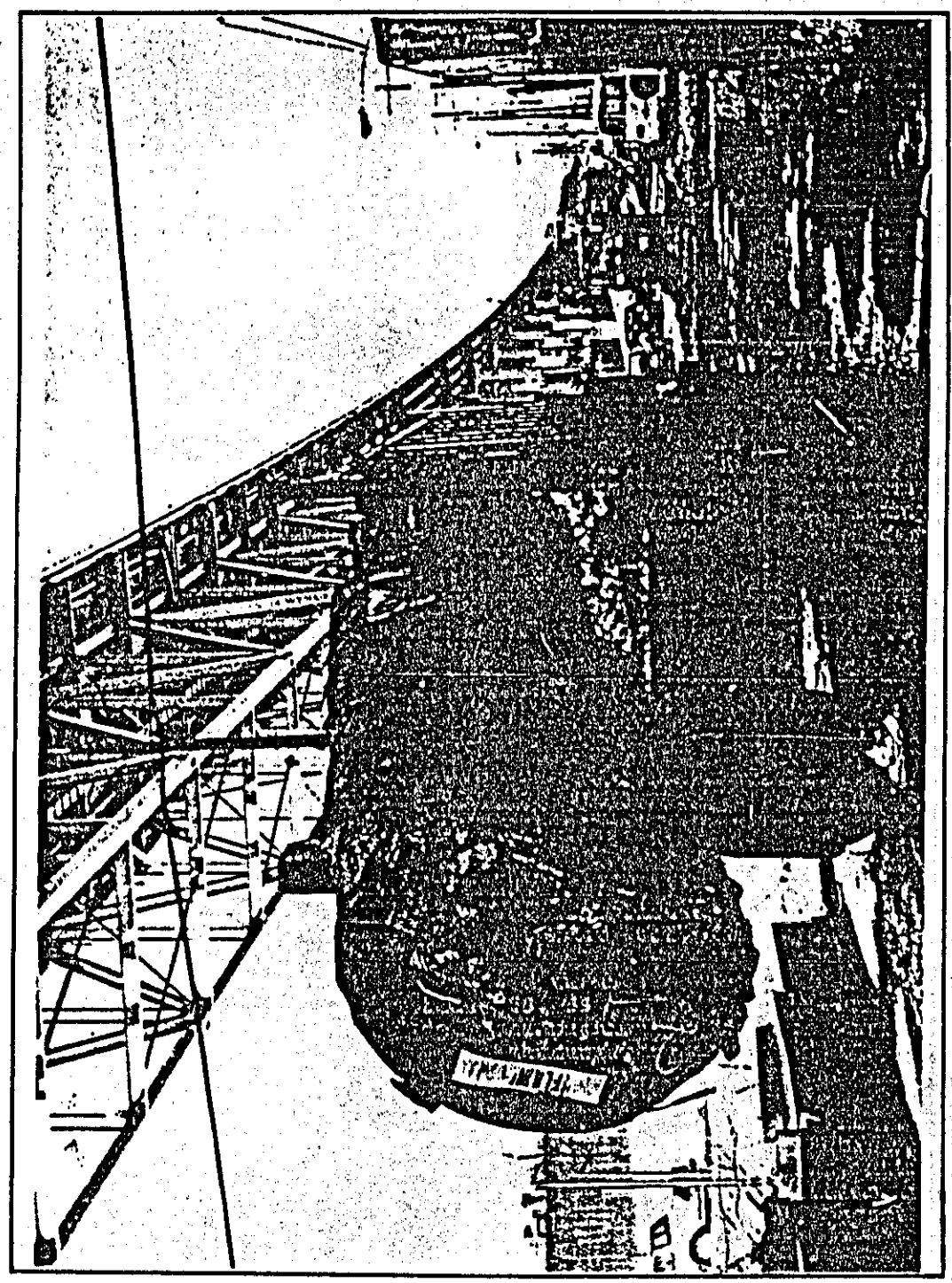

FIGURE 3-2 CRUSHED TANKER LOADED FOR OFF-SITE TRANSPORT

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from Mr. Klotzback to Mr. Claypool. Copies of this and all subsequent corresponding relating to Change Orders are presented in Appendix F.

Subsequently, RES provided the DER with a cost estimate for completing the work associated with the change order requests. The estimate included costs associated with work performed by RES at its own risk and for work remaining to be done. The cost estimate, presented in a spreadsheet format, was transmitted to the DER in a letter dated February 27, 1987 to the DER Contract Officer, from RES' Contract Administrator. The cost estimates for the three items contained in the first Change Order request are summarized below:

• Item 1 - PCB Capacitors	$ 6,013.14
• Item 2 - Grid 41 Pile	113,448.18
• Item 3 - Tanker Solids Removal	17,395.49
TOTAL	$136,856.81

The combined cost estimated for sampling and analysis in Items 1 and 2 of Change Order No. 2 was $567.24. No cost estimate was submitted for Change Order No. 2, Item 3.

WESTON performed a detailed review of the technical information and cost estimates provided by RES for Change Order Nos. 1 and 2. RES' estimates for labor hours, equipment usage, and materials expended on work completed "at risk" were checked on a line-by-line basis against WESTON's written, photographic, and videotape logs. Costs associated with work remaining to be done were checked for reasonableness.

WESTON also evaluated RES' daily rates for equipment and safety supplies. This included consultation of the Construction Blue Book for heavy equipment rates and a comparison of RES' rate for Level C safety equipment with WESTON's rates for similar equipment. As directed by the DER, RES' labor rates for the personnel assigned to the site were not included in WESTON's evaluation of the change order request cost estimate. Additionally, at the request of RES, WESTON was not informed of the labor rate cost buildup information submitted to the DER. Labor rates and cost buildups were evaluated by the Comptroller's office.

RES' cost estimate spreadsheet was modified to reflect differences between RES' and WESTON's records. WESTON's comments and cost comparison were telecopied to the DER on March 3, 1987 and formally transmitted on March 10, 1987.

On March 5, 1987 RES and DER met at the site to discuss WESTON's comments. Tentative resolutions were reached on all but one issue: transportation costs for the tankers. It was agreed that WESTON and RES would independently research their records to justify their positions on this issue. WESTON's findings were transmitted to the DER via a letter from the Site Representative to the Contract Officer dated March 16, 1987.

The DER Contract Officer subsequently asked WESTON for its recommendations concerning the request for Change Order Nos. 1 and 2. WESTON provided its recommendations to the DER in a letter dated March 27, 1987 from WESTON's Project Manager to the Contract Officer. In that letter, WESTON recommended that the DER accept a price adjustment for Change Order No. 1, Items 2 and 3. However, the price adjustment WESTON calculated, based on its records, differed substantially from RES' cost estimate. The basis for the difference are described in the March 27 letter. The cost estimate comparison provided in the March 27 letter was summarized on a spreadsheet prepared by WESTON's Site Representative. This spreadsheet and other supporting information were provided to the DER on April 7, 1987 in a letter from the Site Representative to the Contract Officer.

Two meetings were held at the DER offices in Harrisburg, Pennsylvania on April 10, 1987 to discuss the requests for Change Order Nos. 1 and 2. The first meeting, attended by representatives of WESTON and the DER, was conducted to brief DER management on WESTON's findings and recommendations relative to the request for Change Order Nos. 1 and 2.

A second meeting was subsequently conducted with representatives of the DER, RES, and WESTON in attendance. The DER's position was communicated verbally to RES and was elaborated upon during the ensuing discussions. RES requested that the DER put its positions in writing and provide RES with an opportunity to respond. The DER's positions on these matters were specified in a letter from Mr. James Snyder, Assistant Director, Bureau of Waste Management, to Mr. Richard Jaffe of RES dated April 15, 1987. RES responded to this correspondence on April 23, 1987 in a letter from Mr. Jaffe to Mr. Snyder.

Two meetings were again held at the DER offices in Harrisburg, Pennsylvania on May 7, 1987. The first meeting, with representatives of DER and WESTON in attendance, addressed three issues:

- the requests for Change Order Nos. 1 and 2;
- an administrative consent order issued to DER by the State of South Carolina (see Section 4); and
- problems with achieving the backfill compaction specification (see Section 4).

With respect to the first issue, a substantial amount of the meeting was devoted to reconstructing materials handling scenarios for the Grid 41 pile. This was the focus of much of the meeting because the differences in RES' and WESTON's quantity estimates for this material constituted the main contribution to the differences in their respective cost estimates.

A second meeting was subsequently convened with representatives of DER, RES, and WESTON in attendance wherein RES presented its position on each of the change order items. Videotapes of activities involving the handling of materials from the pile in Grid 41 were reviewed. Based on this meeting, resolutions were reached on each of the out-of-scope items contained in RES' requests for Change Order Nos. 1 and 2. Resolutions reached in this meeting included the following:

- For Change Order No. 1, Item 1, DER agreed that eight of the eleven electrical capacitors were not readily visible to bidders during the pre-bid site inspection and the cost for removing and disposing of the units was justifiable as out-of-scope work. RES would be responsible for the other three. It was agreed that RES would weigh the drums containing the capacitors in order to refine its cost estimate for this item. Additionally, RES agreed to provide DER with the name and qualifications of the disposal facility it proposes for the capacitors.
- For Change Order No. 1, Item 2, DER agreed that the cost for sorting the debris in Grid 41 and transporting and disposing of the material at an appropriate facility was justified as out-of-scope work. It was agreed that DER would accept the costs associated with transportation and disposal of nine loads of this material rather than the twenty-five loads originally claimed by RES. RES agreed to sample and analyze the pile to determine whether the soil was contaminated and should be disposed as hazardous waste.

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- For Change Order No. 1, Item 3, DER agreed that costs for removing residual solids from three tankers was justifiable as out-of-scope work, since the RFQ/P stated that these tankers were empty. Allowable charges for transportation and disposal, less than those originally requested by RES, were agreed upon.

- For Change Order No. 2, Item 1, DER agreed to bear the costs for testing the electrical panels for the presence of PCB.

- For Change Order No. 2, Item 2, DER agreed to bear the costs for testing the dielectric fluid, disposing of the transformer, and to attempt to recover these costs from PECO (whose name was stencilled on the unit, but who has claimed to RES that the unit is not theirs).

- For Change Order No. 2, Item 3, a cost proposal and technical approach had not been submitted as of this meeting.

Also during the May 7, 1987 meeting in the DER offices the cost estimate spreadsheets developed by WESTON and RES were independently revised to further ensure that all of the parties were in concurrence with the resolutions described above. It was agreed that WESTON and RES would revise their respective spreadsheets and submit their findings to the DER. WESTON's revised cost estimate spreadsheet was transmitted to the DER Contract Office via a letter dated May 11, 1987.

On October 13, 1987, RES submitted its final cost summary for Change Orders Nos. 1 and 2. Costs were provided for those items which had not previously been estimated, including:

- Change Order No. 1, Item 1 - Disposal of PCB Capacitors; and

- Change Order No. 2, Item 3 - Removal and disposal of compressed gas cylinders.

RES' costs for all of the change order items were submitted in spreadsheet format.

On November 30, 1987, Ms. Kim DeKona, of the DER, notified WESTON of the labor and equipment rates recommended to the DER by the Comptroller's Office. These rates were used to revise the cost evaluation spreadsheets previously prepared by WESTON. The revised spreadsheets were transmitted to the DER on December 1, 1987.

Based on the resolutions described above, the DER agreed to bear the cost of $ _____ out-of-scope work for Change Order Nos. 1 and 2. This is $ _____ less than that originally requested by RES.

3.3 Change Order No. 3

Section 5.5 of the RFQ/P required the contractor to sample, analyze, remove, and dispose of the contents of an underground tank (located in front of the former boiler house) and to backfill the tank with clean sand. Furthermore, Section 2.4 of the RFQ/P stipulates that for bidding purposes, the volume of the tank was assumed to be 1,000 gallons and the tank was completely full of an oil/water suspension. The RFQ/P recognized closure of the underground tank as an aspect of the work for which a change order would be considered if the actual quantity or contents differed from the specified assumptions.

Subsequent measurements by RES (and verified by WESTON) revealed that the volume of the tank was approximately 10,000 gallons. Additionally, it was determined that the tank contained two distinct layers. The top layer appeared to be aqueous and exhibited a light petroleum-type sheen. The bottom layer resembled a heavy oily sludge. Removal and disposal of the wastewater and sludge layer are described in Section 2.3.3.

RES submitted a request for Change Order No. 3 to cover the extra costs it anticipated for closure of the underground tank. The request, dated April 9, 1987 (see Appendix D) totalled $28,524.71.

The DER directed WESTON to evaluate the justification for and costs associated with this change order request. WESTON evaluated the request for Change Order No. 3 in a manner similar to that used for Change Order Nos. 1 and 2. Based on a review of its field notes, photographs, and videotapes of the underground tank closure, WESTON expressed its comments and recommendations to the DER in a letter to the DER Contract Officer dated May 29, 1987 (Appendix G). It was WESTON's opinion that a price adjustment was justified for closure of the underground tank; however, RES' cost estimate again differed from WESTON's. Three reasons were cited for the difference in cost estimates prepared by RES and WESTON, including:

- A vacuum truck was dispatched to the site for removal of the wastewater layer. However, it was subsequently found that the vacuum mechanism was inoperable. Small air driven pumps were used to transfer the tank's contents into the vacuum truck. Use of the small pumps was a departure from the plan for closing the underground tank agreed to by the Site Representative. This departure resulted in expenditure of approximately four extra hours for completing the wastewater removal.

- Approximately three drums of oily soil were removed from the bottom of the tank. This material was apparently introduced into the tank's manway by RES during work not associated with the closure of this tank. The labor and materials costs associated with removing and containerizing the oily soil material resulted from the contractor's performance and are therefore not justified as out-of-scope work.

- The labor necessary to pack the sludge in 55 gallon drums and to repack the sludge into fiber packs would not be needed if RES had accurately estimated the quantity of sludge present in the tank prior to initiating tank closure work. The quantity estimate could have been used to calculate an appropriate number of fiber packs for this task, thereby averting the need for repacking.

Disposal of the containerized oily sludge was withheld pending identification of and approval by a facility in compliance with the USEPA's CERCLA off-site disposal policy. After a qualified facility was identified, WESTON requested that RES review its transportation and disposal cost estimates for this work. A copy of this request is provided in Appendix G. As of this writing, negotiations on this change order request have not been initiated.

3.4 Change Order No. 4

DER and the Site Representative were verbally notified on May 15, 1987 that a fourth change order request pertaining to removal and disposal of an oily, sludge-laden soil would be submitted by RES. The history of RES' notification regarding the forthcoming change order request begins with the March 14, 1987 letter from R. Jaffe to D. Becker regarding compaction problems in certain areas of the site.

It was noted that "a highly saturated organic material" was encountered in certain areas. This material exhibited a pumping action when compaction was attempted and some of this material was forced to the surface. Actions involving the compaction problem are discussed in Section 4. Through correspondence and various discussions regarding the compaction problem, RES expressed its opinion that the problem stemmed from the presence of a sludge layer in Grids 2, 17, and 18.

On May 8, 1987 a meeting was held on-site to discuss strategies for addressing this previously unknown waste material. RES' videotape and photographs of the pumping action and sludge that reached the surface were reviewed. It was agreed that WESTON would use a power auger to explore the area of concern in an attempt to define the extent of the sludge-like material. Exploratory auguring was conducted on May 14, 1987. The sludge-like material was encountered in only one hole (located in Grid 17B) of the 11 holes drilled that day.

Based on the limited findings of the exploratory auguring work, WESTON's acting Site Representative and RES' Acting Site Supervisor agreed that the Contractor would explore the area using a backhoe. Exploratory backhoe trenching was conducted on May 15, 1987 and involved an area between 2.5 and 3.5 feet deep, approximately 22 to 27 feet wide and 32 feet long. A second area measuring 16 feet wide by 18 feet long by 2 feet deep was included in this investigation. A total of approximately 105 cubic yards of material (based on measurements obtained jointly by RES and WESTON) were removed and stockpiled during this effort. Also, on this day, laboratory analyses received by RES indicated the material was not hazardous waste.

Following a series of attempts to identify an in-state disposal facility permitted to accept this waste, Grand Central Sanitation in _____, Pennsylvania approved acceptance of the oil sludge-laden soil. Loading, transport, and disposal of this material was accomplished on July 9, 1987.

On October 13, 1987, RES submitted a letter to Ms. Kim DeKona of the DER detailing the out-of-scope costs it had incurred on this (and several other) change order requests. RES estimated its costs for Change Order No. 4 were $9,613.08. This included a charge of $1,517.32 for an engineering study associated with preparation of the Mod 1 disposal documents. Negotiations on this change order request have not been initiated as of this writing.

3.5 Contract Amendments

(Reserved)

SECTION 4

OTHER ISSUES

A number of issues were raised or encountered during various stages of the remedial action at the Wade Site. These ranged from difficulties in obtaining permission to use certain abutting properties and facilities to alleged violations of South Carolina laws regarding hazardous waste packaging and transportation. Several of these issues encountered necessitated field modifications to the specifications described in the RFQ/P. These issues and their respective resolutions are described in this section.

4.1 Sanitary Discharge Permitting

One of the problems encountered early in the project was obtaining permission to dispose of on-site generated sanitary wastewaters in the Delaware County Regional Water Quality Control Authority (DELCORA) sewers. On January 21, 1987 a DELCORA inspector visited the site to investigate a report of an unauthorized discharge to the sanitary manhole at Flower and Delaware Streets. The RES Site Supervisor told the DELCORA inspector that sanitary wastes from the support area of the site were being accumulated in a dedicated holding tank and were pumped to the DELCORA manhole as was approved by DELCORA for previous cleanup activities at the Wade Site. Separate holding tanks were used for the accumulation of other wastewaters, including decontamination rinsates, generated at the site and these were disposed of elsewhere, as described in Section 1.

Later that day, a DELCORA crew was observed preparing to work on the manhole in front of the site. When RES' Site Supervisor inquired as to the nature of their work, he was told the crew was preparing to grout the manhole shut to prevent these discharges. The crew was asked to postpone this work until DELCORA's approvals for wastewater discharges to the manhole during the previous cleanup activities at the site were retrieved.

WESTON researched its files from previous phases of the work and located a letter from Mr. Raymond Chesnut of DELCORA to Mr. Stuart Rosenthal, the DER Site Representative, dated January 15, 1980. In that letter, DELCORA granted permission to "pump domestic wastes collected at the Wade...Site into a nearby manhole." A copy of this letter was provided to RES and in turn to DELCORA (Appendix I).

Subsequently, on January 30, 1987, DELCORA requested that RES sample and analyze the contents of the sanitary wastewater holding tank. Analyses requested included total organic halogen and priority pollutant metals. Discussions with RES' Site Supervisor led to an agreement that WESTON would sample the contents of the tank and analyze those samples on a rapid turnaround time basis. It was also agreed that RES would pay for the analyses, as the Contractor was responsible for obtaining any permits necessary for executing the work.

Samples from the holding tank were collected on February 3, 1987. A representative from DELCORA was present and split samples were provided to him in glassware provided by DELCORA. It was mentioned that, in addition to the parameters previously mentioned, DELCORA intended to analyze the samples for cyanide, phenols, and volatile organics.

Verbal results were received on February 10, 1987 and showed that the wastewater exhibited the following characteristics:

Total Organic Halide	130 ug/L
Cyanide	< 0.01 mg/L
Silver	< 10 ug/L
Arsenic	14 ug/L
Beryllium	< 5 ug/L
Cadmium	< 5 ug/L
Chromium	47 ug/L
Copper	152 ug/L
Mercury	< 0.2 ug/L
Nickel	40 ug/L
Lead	133 ug/L
Antimony	< 60 ug/L
Selenium	10 ug/L
Thallium	< 10 ug/L
Zinc	779 ug/L

The data was transmitted to DELCORA on February 19, 1987. Based on this information, permission to continue discharging to the manhole was granted.

4.2 Alternate Subcontractors

During the initial phases of its activities, RES submitted requests to use the services of various subcontractors not included in RES' proposal (Appendix J). These subcontractors included transporters, disposal sites, laboratories, and consultants for geotechnical testing and health and safety support. RES submitted requests to use the following subcontractors for the services described:

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• Wayne Disposal, Inc.	Disposal of Hazardous Waste Solids
• Michigan Disposal, Inc.	Disposal of Hazardous Waste Solids
• MDS Laboratories	Analysis of Air Samples for Volatile Organics
• Waste Conversion, Inc.	Wastewater Disposal
• Chem-Clear, Inc.	Wastewater Disposal
• Jack Gray Transport, Inc.	Transportation of Hazardous Waste Solids.

RES' requests to use alternate subcontractors were reviewed by WESTON and the DER. These reviews included consideration of qualifications information submitted by RES and, in the case of disposal facilities, inquiries to the appropriate regulatory agencies to determine the compliance status of the facilities. All of the firms listed above were approved for use on the project with the exception of Wayne Disposal, Inc. and Michigan Disposal. These two firms were not approved because they were not in compliance with USEPA's CERCLA off-site disposal policy.

4.3 Activities on DRPA Property

During a January 8, 1987 meeting with officials from the City of Chester, RES requested the City's permission to place fill over Flower Street as shown in the design drawings of the RFQ/P. It was subsequently learned from the City's right of way records that the Delaware River Port Authority (DRPA) was the current owner of record for portions of the Wade Site, including the right of way for the portion of Flower Street that extends inside the site fence and a triangular area in the southern corner of the site. RES contacted the DRPA in an effort to secure the Authority's permission to conduct the work required on DRPA property (letter from M. Mellinger of RES to J. Yeomans of the DRPA, dated January 12, 1987). The DRPA designated Mr. Charles Odgers and Mr. John Zagorski as contacts on this Project.

A meeting was held on-site on the morning of February 11, 1987 to brief the DRPA personnel on the nature of the work impacting the DRPA's property. The DRPA requested copies of the design drawings and relevant sections of the

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RFQ/P for its review. WESTON provided the information requested to Mr. Odgers in a February 11, 1987 letter from the Site Representative (Appendix L).

A second issue arose in early March involving property owned by the DRPA and leased by the City of Chester for use as a boat launch and park area. This property, located on the southwest side of the Commodore Barry Bridge, was used as a truck staging area as directed by the City's Police Department in the January 8, 1987 meeting with the City. On March 3, 1987, Mr. Stephen Merriken, Deputy Director of City Planning, wrote to the DER Cleanup Director regarding damage caused by trucks operating on the property. The DER Cleanup Director notified Mr. Merriken that the Contractor would be required to repair any damage caused by the trucks.

A representative of the Pennsylvania Fish Commission visited the City's boat launch property and observed several empty cardboard boxes in the immediate vicinity of several trucks. The Fish Commission representative visited the Wade Site in response to his observation that littering was occurring in the truck staging area. A discussion with the DER Cleanup Director failed to resolve this issue.

On the following day, Mr. Merriken and a representative of the City's Police Department visited the site and issued an order to the DER to cease use of the boat launch property as a truck staging area. After a discussion with RES, WESTON, and the City officials, it was decided that the unimproved portion of Delaware Avenue located south of the boat launch property would be acceptable as a truck staging area. This area was used for truck staging during the remainder of the project without further difficulties.

4.4 Disposal Site Difficulties

Transportation of hazardous waste shipments to GSX Services in Pinewood, South Carolina was initiated on February 23, 1987 when 23 loads, totalling 999,720 pounds of waste, were shipped off-site. On the morning of February 24, 1987, RES was notified by GSX that 20 loads were lacking a certification statement on the shipping papers and that five loads were found to be "leaking from the bottom of the tailgates." The finding that some of the loads were leaking conflicts with RES' statements that all loads were inspected prior to departure and that none contained free liquid. This statement was supported by WESTON's inspections of selected loads.

An investigation of this matter by the DER Cleanup Director and WESTON's Site Representative included inquiries to the truck drivers and the trucking dispatcher assigned to the site. It was determined that the "leaking" observed at the disposal site most probably resulted from melting snow underlying the plastic liner in the trailer bed. Snow apparently entered the beds of several trailers that had arrived on-site on the evening of February 22, 1987. The trailers were parked in the City's boat launch parking area on the southwest side of the Commodore Barry Bridge. Snow plowing on the bridge reportedly impacted the trailers parked below. Prior to loading, plastic liners were placed in the bed of each trailer, however, the snow in the trailers was not dumped prior to this activity. This went unnoticed as RES in accordance with the specifications of the RFQ/P, inspected the loads only after loading and decontamination.

The State of South Carolina issued two consent orders on April 24, 1987 in response to the leaking observed by the State's inspectors. The first order, issued to Dart Trucking Company, Inc., alleged violation of:

- State hazardous waste management regulations regarding the discharge of hazardous waste during transportation; and
- State laws governing discharges of industrial and other waste into the environment of the State.

The second order, issued to the DER, alleged violation of State hazardous waste management regulations regarding packaging of hazardous waste for off-site transportation (Appendix L). Each of the orders required payment of civil penalties of $1,000. The order issued to DART Trucking Company was executed and returned to the State of South Carolina along with payment of the civil penalty. The order issued to the DER was also executed and returned to the State of South Carolina; however, the civil penalty was paid by RES.

4.5 Work Involving Asbestos-Suspect Materials

Insulation suspected of containing asbestos fibers was identified by RES on several pipe runs in the grinding building. The Site Representative examined the insulation in question and concurred with RES' opinion that the insulation probably contained asbestos. Additionally, examination

of the boiler house by the Site Representative revealed three piles of debris suspected of containing asbestos. Asbestos-suspect insulation was subsequently found in the office building on a pipe run leading from the stairwell in the basement to the second floor of the building.

Based on the fact that asbestos-suspect insulation was present on-site, RES notified the Site Representative that the Occupational Safety and Health Administration (OSHA) must be notified regarding removal and disposal of the insulation (Appendix M). It was agreed that the DER Cleanup Director would pursue and submit the required notifications to the appropriate regulatory authorities. A copy of the notification submitted to the DER Air Quality office in Norristown, Pennsylvania is provided in Appendix M.

RES submitted a request to execute the demolition work under Phase 5 progressively during Phases 2 through 5, inclusive (see Section 4.6.1). Conditional approval to perform the work in a progressive manner was granted provided certain modifications to the Phase 5 safety plan were made (Appendix C). One of the conditions required that asbestos hazards and removal techniques be added to the safety plan. RES submitted a generic health and safety plan for asbestos removal (Appendix M). This plan was made an attachment to the Phase 5 safety plan and RES' employees were briefed on the asbestos removal health and safety requirements.

On February 25, 1987 the Site Representative observed that RES had initiated demolition of the boiler house prior to removal of asbestos-suspect materials. RES was directed to cease further demolition of the boiler house until:

- the presence or absence of asbestine-materials had been determined, or;
- the asbestos-suspect materials had been removed from the building in accordance with all applicable regulations.

RES complied with this directive and tasked its health and safety subcontractor with sampling the debris piles and the air space in the boiler house for the presence of asbestos. The samples were analyzed by (laboratory name) using phase contact microscopy (Appendix M). Neither the air space nor the three debris piles contained asbestos fibers. Based on this data, demolition of the boiler house was allowed to proceed.

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Asbestos-suspect insulation in the grinding room was handled by cold cutting the pipe lengths in question at joints not covered by insulation. The pipe lengths removed in this manner were wrapped in several layers of plastic, secured with duct tape and staged on-site pending disposal. This approach was employed to minimize disturbance of the insulation and release of asbestos fibers to the atmosphere.

The asbestos-suspect piping in the office building necessitated a somewhat different method of removal. This was due to the fact that:

- the pipe and insulation was immediately adjacent to the walls, and;
- the pipe passed through structural members that could not be removed at that point in the project.

Removal of the insulation in this area proceeded by wetting the suspect insulation with water to minimize release of airborne fibers. The insulation was removed using hand tools and placed in a plastic bag. At the completion of the removal, the bag was closed and was placed inside a second plastic bag which was in turn closed. The material was staged on-site pending disposal at (disposal site name).

4.6 Field Modifications

Several unforeseen conditions encountered during the remedial action necessitated modifications to the specifications in the RFQ/P. In certain instances, these modifications were initiated and/or approved directly by the WESTON Site Representative. The DER Cleanup Director and the Contract Officer were notified of all modifications approved by WESTON. In other cases (particularly those that could have involved extra cost to the Contractor), WESTON provided technical assistance and recommendations to the DER. The DER then used this information in considering approval of a design modification. Areas where field modifications were considered included:

- revisions to the demolition approach described in the Contractor's proposal;
- revisions to the required depth of removal for specific grids;
- redesign of the southwestern drainage swale;

- removal of concrete machinery pedestals;
- extension of monitoring well casings and bumper guards; and
- revisions to the compaction requirement for select fill.

Each of these field modifications are described in this subsection. It should be noted that none of these field modifications resulted in a change order request by the Contractor. Unforeseen conditions resulting in submittal of change order requests are described in Section 3.

4.6.1 Revised Demolition Approach

RES submitted a request on January 31, 1987 to execute Phase 5 demolition activities during Phases 2 through 5, inclusive (Appendix C). The request for "progressive sequencing" of Phase 5 demolition work provided several reasons for this approach, including:

- several severe, early snow falls, which could have effected the Project schedule (demolition activities were reportedly not as sensitive to severe weather as other activities were);
- clearing the site would provide more space for facilities and staging areas for non-hazardous materials; and
- non-productive time during Phases 2 through 4 could be utilized productively.

WESTON's initial review of RES' progressive sequencing request revealed the need for a detailed technical proposal. The DER was apprised of this need and a request for additional information was made to RES' Site Supervisor in a February 9, 1987 letter from the Site Representative (Appendix C). Information requested by the Site Representative included:

- listing of equipment to be used for the demolition work;
- sequence of tasks;

- detailed description of personnel control to keep unnecessary individuals clear and accounted for; and

- delineation of rubble staging areas.

It was also mentioned that demolition around electrical panels suspected of being PCB contaminated would not be permitted until the presence or absence of PCB had been determined.

RES' technical approach for progressive sequencing of the demolition work was submitted on February 11, 1987 (Appendix C). DER and WESTON evaluated RES' request and approach for progressive sequencing of Phase 5 demolition work as well as the Phase 5 safety plan. It was determined that the sequence of tasks and the heavy equipment proposed for the progressive sequencing approach were adequate. RES' plan for controlling personnel in the vicinity of demolition work included:

- performing demolition work when only RES personnel were on-site;

- discussing demolition work planned for a given day at the daily safety meeting; and

- inspection of the area by the foreman prior to knocking down masonry walls or roofs.

These controls were also found to be adequate, however, it was suggested that the foreman should have immediate access to an air horn or other means of stopping work.

Conditional approval to proceed with progressive sequencing of Phase 5 demolition work was given to RES on February 23, 1987 via a letter from the Site Representative (Appendix C). Conditions specified in the approval letter included five health and safety plan items. RES revised the Phase 5 safety plan accordingly and proceeded with progressive demolition. Safety-related problems associated with this approach are discussed in Section 5.

4.6.2 Excavation Depths

Excavation activities in the southern third of the site closest to the Delaware River revealed the presence of a large concrete mass at a depth of one to two feet. Large, irregular slab-like masses of concrete were also observed

on the river bank and are believed to be related to the mass underlying the site. The mass underlying the site was very irregular in shape and appeared to be up to two feet thick, as evidenced by a portion of the mass removed by RES. Site workers who were familiar with the history of the area set forth two hypotheses for the origin of the concrete mass. It was thought that the mass originated from washout of concrete trucks during construction of either the roadbed to the old ferry house or the Commodore Barry Bridge (or both).

The discovery of the concrete necessitated some modification to the excavation plan (Drawing 102 in the RFQ/P). WESTON confirmed the presence, extent, and thickness of the concrete reported by RES and evaluated potential means of addressing this finding. Upon review of the RFQ/P, it was learned that the presence of the concrete was previously known.

Based on discussions with WESTON and RES, the DER determined that the most appropriate course of action was to excavate only until the soils overlying the concrete had been removed. Further removal was not warranted and was not consistent with the fact that the concrete floor slabs in the former buildings would be left in-place and covered with backfill. The depth of excavation achieved is illustrated in the cross-section drawings provided in the pocket at the end of this report.

4.6.3 Drainage Swale Redesign

The RFQ/P included specifications and drawings for rough and final grading of the Wade Site. Rough grading was a Phase 5 activity and a major component of Phase 6 was final grading. During the course of the work, it became apparent to the Site Representative that certain modifications to the grading plans would be necessary due to the following site features:

- previously unknown concrete retaining wall on the western side of the underground storage tank and the southern portion of the tank, both of which were located above rough grade elevations;
- concrete pads (building floors) near the eastern fence would both protrude above rough grade and interfere with the positioning of the eastern swale;

- the northern part of the western drainage swale was located in the Flower Street roadbed, which was crowned both axially and across its width; and

- several machinery pedestals would protrude above rough and final grades.

These items were not located during pre-design surveys because it is not customary to employ a highly detailed design for most drainage swales, as field modifications are expected for their construction. The machinery pedestal issue is addressed in Section 4.9.4. Modifications associated with the other three site features are described herein.

At the request of the Site Representative, on March 12, 1987 a WESTON civil engineer visited the site to evaluate the location of the drainage swale along the western flank of the site. The principal recommendation resulting from this visit was that the swale should be relocated to the northeast and out of the roadbed. Certain recommendations regarding curbing modifications south of the axial crest in the road were also developed (see WESTON memo of March 16, 1987; Appendix O), Revisions were made to the RFQ/P Drawing Numbers 104, 105, and 106 to reflect these changes. Copies of the revised drawings were transmitted to the RES' Site Supervisor by the Site Representative in a letter dated April 24, 1987 (Appendix O).

RES subsequently notified the DER that additional modifications to the western drainage swale were necessary due to the presence of a formerly unknown concrete mass in the southern third of the property. Through discussions between the Acting Site Representative and RES' Site Supervisor, it was agreed that construction of the western drainage swale could be accomplished by relocating the centerline of the swale approximately five to ten feet to the east in Grids 56 and 57. Additionally, the centerline of the swale would be moved to the west (off the edge of the concrete mass) in Grids 58, 59, 60, 61, 62, and 46. RES' plans to complete the construction of the western drainage swale in this manner was communicated to the DER in a letter form the Site Supervisor dated May 17, 1987 (Appendix O).

DER approved modifications in the drainage swale construction via two letters to RES' Contract Administrator. The first letter from the DER Contract Officer, dated May 12, 1987 (Appendix O) approved certain modifications to the eastern swale along the PECO fence line. Concrete pads

(building floors) in close proximity to the fence necessitated shifting the centerline of the swale closer to the fence line. Additionally, minimal cover would be present over certain parts of the concrete pads between stations E-1275 and E-1340. The second letter, dated May 15, 1987 (Appendix O) from Ms. Frances L. Costanzi, an engineer for the DER, approved the modifications to the western swale described in RES' letter of May 12, 1987. The completed eastern and western drainage swales are shown in Figures 4-1 and 4-2, respectively.

4.6.4 Removal of Concrete Pedestals

During the course of the Phase 5 demolition work, a number of large concrete pedestals and machinery mounts were found inside the buildings. These pedestals were inspected by WESTON on April 9, 1987 and the following observations were made:

- Pedestal No. 1 - located 43 feet from the PECO fence line on gridline E-1285 (see Figure 4-3). This pedestal measured approximately 25 feet wide by 8.3 feet long and 3.4 feet high on the first level and 4.1 feet high on the second level. One-inch steel plates covered the pedestal and heavy steel reinforcing was observed protruding from several sides.

- Pedestal No. 2 - located 43 feet from the PECO fence line on gridline E-1334. This structure measured 9 feet long by 7.5 feet wide by 3.5 feet high and also appeared to be heavily reinforced.

- Pedestal No. 3 - located 33 feet from the PECO fence line on gridline E-1450. This structure measured 3 feet wide by 9.5 feet long. Previous attempts to demolish this structure using the ramhoe had exposed heavy steel reinforcing (1/2 and 3/4-inch bar).

- Pedestal No. 4 - located 49 feet from the PECO fence line on gridline E-1450. This structure was of the same size and reinforcing as Pedestal No. 3.

- Pedestal No. 5 - located at N-970, E-1500, measuring 5.4 feet long by 4.7 feet wide. Heavy reinforcing including 3/4-inch bars and 1-inch diameter bolts protruded from the sides.

FIGURE 4-1 DRAINAGE SWALE ALONG PECO FENCELINE

FIGURE 4-2. WESTERN DRAINAGE SWALE

(to be provided)

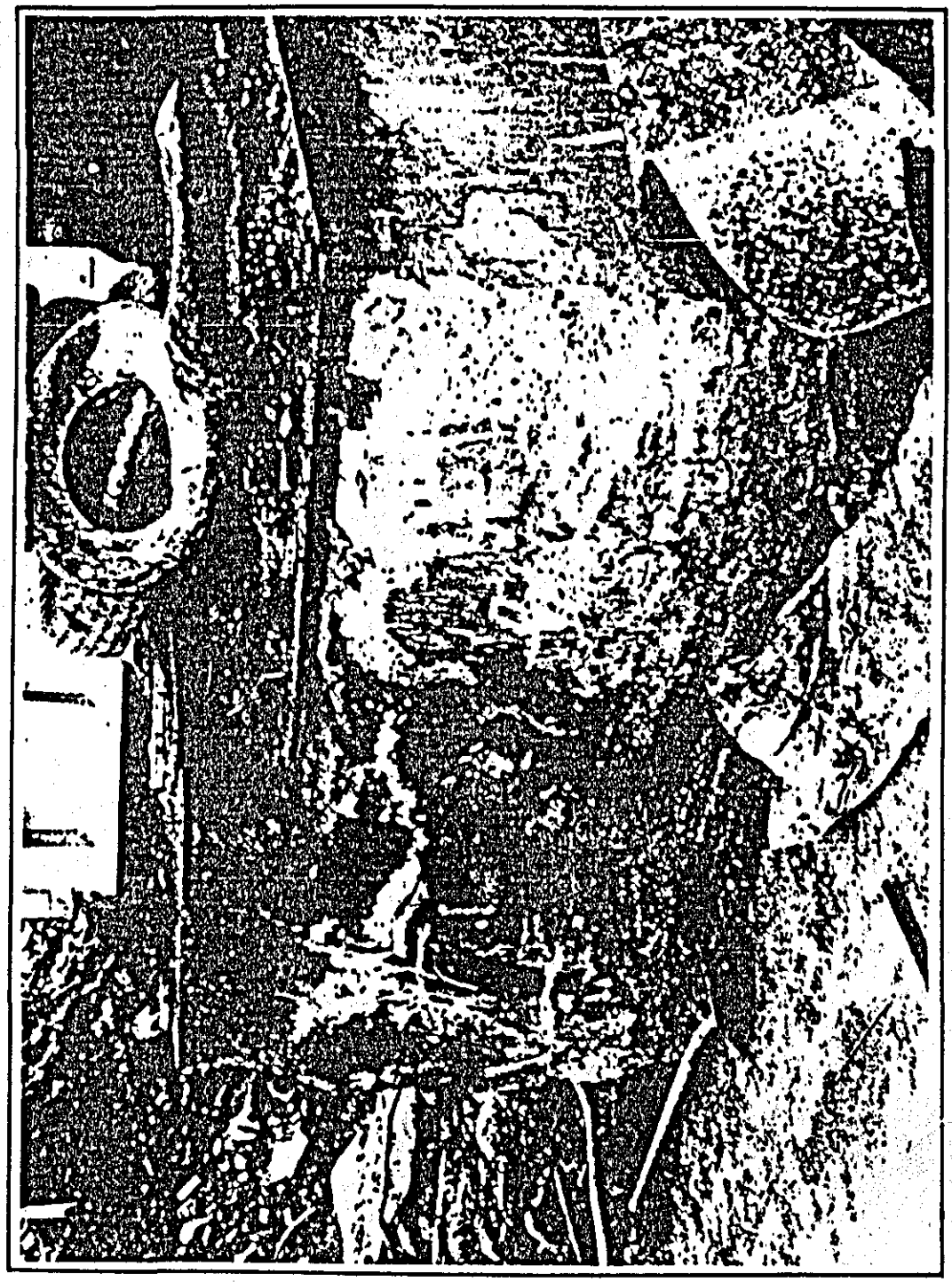

FIGURE 4-3 MACHINERY PEDESTAL NO. 1

- Grinding Machine Mount - located 56 feet from the PECO fence line on the E-1408 gridline.

RES' Site Supervisor indicated to the Site Representative that, due to the very heavy reinforcing present in these structures, it was likely that a change order request would be submitted for this work. Based on WESTON's review of the pedestals and the design requirements, it was determined that removal of the pedestals would not be necessary. This was communicated to RES' Site Supervisor in a letter from the Site Representative dated _____, 1987 (Appendix ___).

Upon further consideration of this matter, RES determined that due to potential liabilities associated with leaving the pedestals in place, it would proceed with removal of the pedestals at no cost to the DER. The Site Representative was apprised of RES' plans to proceed with removal of the pedestals using a hydraulic ramhoe. Although progress on this activity was very slow due to the heavy reinforcing of the pedestals, removal of the pedestals was accomplished satisfactorily. Concrete rubble generated from this activity was used as structural fill in grids 1, 17, 33, and 49 (see Section 4.8.5).

4.6.5 Monitoring Well Modifications

The rough and final grading plans for the site called for substantial modifications to the existing topography of the site in order to promote stormwater runoff and drainage. Topographic modifications primarily involved raising the elevation of certain portions of the site by about four feet. Several of the monitoring wells located throughout the site would be partially or fully covered by fill materials where substantial changes in the topography was planned. Monitoring wells effected by these activities included:

- B2 and B2A located behind the former office building in grids 4 and 20;
- B8 and B8A located adjacent to the former concrete sump in grid 28; and
- B5 and B5A near the PECO fence line in grid 11.

Section 3.1 of the RFQ/P requires the Contractor to preserve, repair and, if necessary, replace fences and roads damaged during execution of the work. Through discussions with RES, the Cleanup Director, and the Site Representative,

it was agreed that RES would extend the casings of monitoring wells impacted by backfilling activities and that improvements would be made to the protective bumper guards around the wells. An example of one monitoring well installation improved in this manner is shown in Figure 4-4.

Monitoring wells B3 and B3A in grid 66 were modified during construction of the ramps for the truck scales. The casing on both wells were cut to a height of approximately six to eight inches above the road surface and the protective bumper guards were removed. Concrete formwork for the scale ramps was constructed to isolate these wells. After removal of the scales at the completion of site work, the casing heights were left as is and new bumper guards were fashioned from welded angle iron.

4.6.6 Compaction Difficulties

One of the areas where RES identified a design problem and initiated a field modification concerned attaining the backfill compaction specifications described in the RFQ/P. Sections 8.6 and 9.6 of the RFQ/P required that rough and final backfill materials be compacted to a minimum uniform density of 90 percent of the maximum density determined by ASTM Method D-698. RES notified the DER via a letter to the Contract Officer dated March 14, 1987 (Appendix P) that the compaction specifications were not achievable in certain areas of the site due to the presence of an unsuitable sub-base. Areas where unsuitable sub-base was encountered included:

- the grids along the Delaware Avenue fence line where, "a saturated, highly organic material" was found to create a pumping action during compaction of the overlying fill; and
- areas of the site containing shredded rubber and rubber fragments.

In its March 14, 1987 letter, RES petitioned for relief from the 90 percent compaction specification for the entire site and proposed a compaction specification of 85 percent for the majority of the site. It also proposed that no compaction requirement be specified for the two areas described above.

At the direction of the DER Contract Officer, WESTON reviewed and evaluated RES' petition for relief from the compaction specifications. WESTON's evaluation included

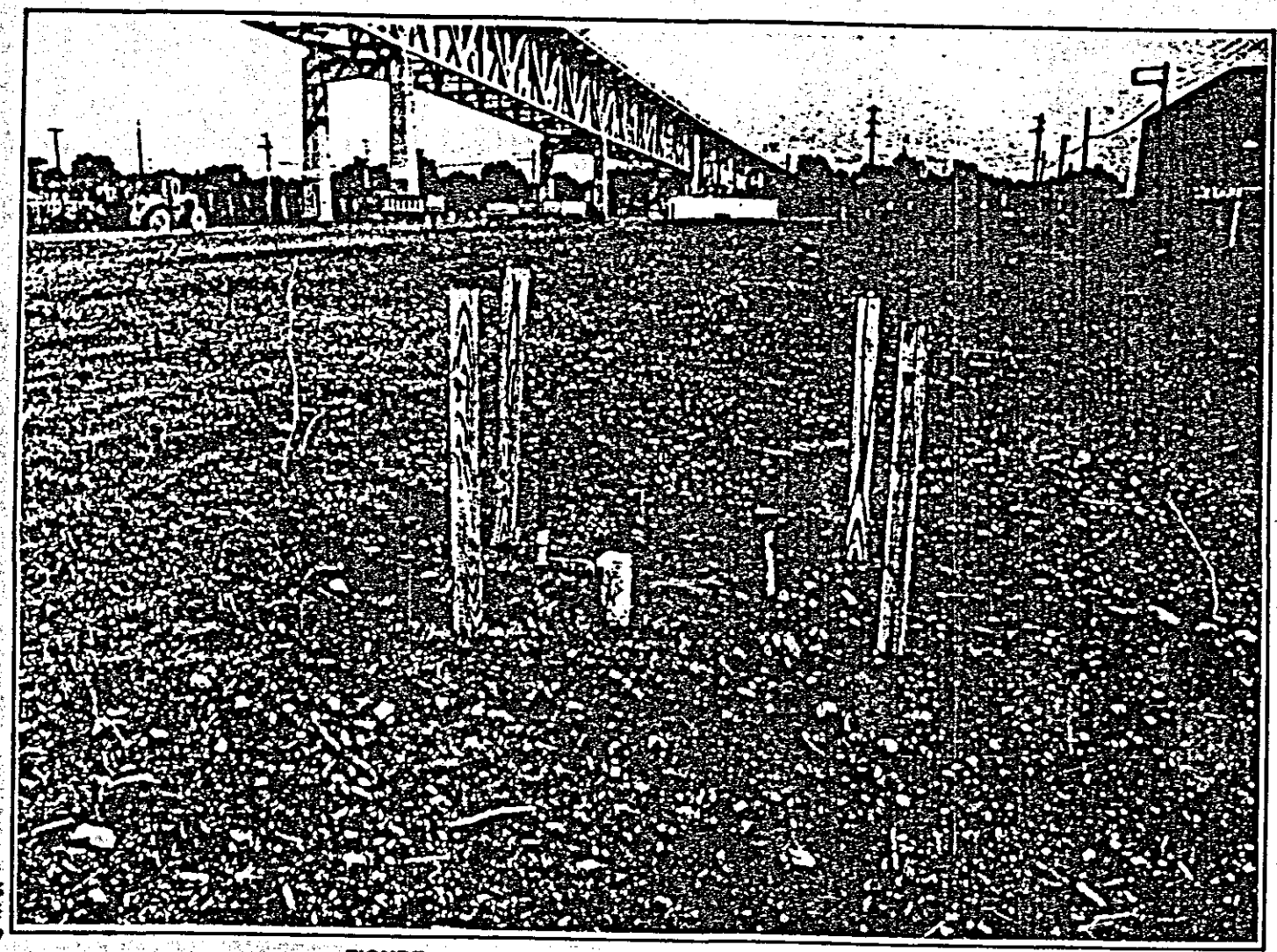

FIGURE 4-4 IMPROVED MONITOR WELL INSTALLATION

consideration of native soil characteristics and the presence (or absence) of water in the subsoils as observed during the Phase 4 excavation activities, as well as geotechnical data submitted by RES for the proposed backfill soils. WESTON's findings and recommendations were transmitted to the DER Contract Officer via a letter from the Site Representative, dated April 24, 1987 (Appendix P).

Findings in that letter include concurrence with RES' position that the sub-base in grids 1, 2, 17, 18, 33, and 49 were unsuitable. However, the unsuitable sub-base conditions in grids 2 and 18 were believed to have resulted from the Contractor's method of placing structural fill (building rubble) in those grids. Various engineered approaches for addressing these compaction difficulties were considered, including:

- removal of the unsuitable materials until suitable native soils were encountered;
- use of imported structural fill (rip-rap, boulders, etc.) to bridge or stabilize the underlying sub-base;
- use of geotextiles to provide structural support for the overlying fill materials; and
- combined use of geotextiles and imported structural fill.

Based on these considerations, WESTON made the following recommendations to the DER:

- backfilling in grids 1, 17, 33, and 49 be preceded by placement of an 18 to 24 inch layer of large rip-rap stones. The rip-rap should be well graded to include large stones up to 12 inches in size as well as smaller rocks to fill the voids. The rip-rap should be placed using a hydraulic excavator without compaction. The subsequent lifts of imported gravel should be placed using the heavy equipment at the site. However, compaction of the gravel lifts should not be performed using vibrating compaction equipment. These backfilling methods should result in a stable sub-base for subsequent lifts of rough and final grade materials.
- unsuitable material in grids 2 and 18 should be removed until the naturally occurring sub-base soils are encountered. Backfilling with gravel should proceed in accordance with the requirements of the RFQ/P.

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- DER should not grant an all encompassing waiver from the 90 percent compaction specification, as requested in RES' letter of March 14, 1987. Rather, a waiver specific only to grids 1, 17, 33, and 49 specifying a minimum backfill compaction of 85 percent of maximum dry density should be granted.

The DER considered WESTON's recommendations and advised RES that it was granting a waiver from the 90 percent compaction specification in specific grids in accordance with WESTON's recommendations. The DER's position on RES' petition for relief was communicated to the RES Contract Administrator in a May 4, 1987 letter from the DER Contract Officer (Appendix P).

RES performed the work in grids 1, 17, 33, and 49 in accordance with WESTON's recommendation that rip-rap be used to stabilize the sub-base. This was supplemented by removal of the oily sub-base soil, as described in Section 3.3. Materials used for stabilizing the sub-base included concrete rubble and sidewalk slabs obtained from continuing on-site work and 6 inch stone (specification PA-DOT 2B) remaining after construction of the drainage swale filter berms. These materials successfully stabilized the sub-base such that subsequent compaction of the overlying fill soils consistently achieved or exceeded the 90 percent compaction specification of the RFQ/P.

RES continued to place additional lifts of select fill in grids 2 and 18. Compaction testing of the fill layers in these grids showed a continual improvement in the degree of compaction. Additionally, the minimum 90 percent density specification was achieved or exceeded consistently in both grids.

4.7 Verification of Topographic Survey and Grades

RES was required to perform topographic surveys and to prepare cross-sections and topographic maps of the site at various points in the project. Topographic surveys associated with the remedial actions of the Wade Site were subcontracted to H. Gilroy Damon Associates, Inc. of Sharon Hill, Pennsylvania. One of the activities performed by WESTON in this regard was a review and verification of RES' survey-related submittals. Field notes were checked for accuracy and elevations shown on drawings submitted by RES were checked for consistency with the field notes. Confirming elevation data was surveyed and used as a means of checking RES' survey data.

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During the day-to-day execution of the work, WESTON provided assistance to RES in determining certain grades and elevation data. Specifically, the Site Representative located the two drainage swale berms, surveyed elevations of points where compaction tests had been conducted and elevations in the drainage swale at the northwestern corner of the site.

SECTION 5

HEALTH AND SAFETY

5.1 Phase Specific Safety Plans

In the proposal it submitted in response to the RFQ/P, RES proposed to develop and implement phase specific safety plans for the seven distinct phases of work planned for final remediation of the Wade Site. These phase specific safety plans were in addition to the overall Project Safety Plan specified in the RFQ/P. As proposed, RES prepared both the overall Project Safety Plan and the individual phase specific safety plans. These plans were submitted to the DER for its review and concurrence. Copies of the safety plans are provided in Appendix Q.

As discussed in Section 4, RES submitted a request to execute the Phase 5 demolition work during Phases 3 through 5, inclusive. Based on a review of this request by WESTON and the DER, several modifications to the Phase 5 safety plan were required as conditions to proceeding with the Phase 5 demolition work. The specific safety plan modifications included:

- asbestos and PCBs were to be added to the list of contaminants and hazards expected on-site, procedures for monitoring for these substances were to be described;
- respiratory protection in accordance with OSHA rules for asbestos removal were to be utilized; and
- procedures for clearing the work area prior to demolishing any high structures were to be included, provisions for supervisory observation and emergency alarms were to be described.

RES modified its Phase 5 safety plan to address these comments. Additionally, it submitted a "generic" safety plan for asbestos work. This asbestos safety plan was made an attachment to the Phase 5 safety plan and RES' personnel performing asbestos related work were subject to the provisions of the asbestos safety plan.

5.2 Work Zones

The RFQ/P (and OSHA rules) required the establishment of distinct work zones as a means of controlling access and worker exposure at the Wade Site. RES established three work zones at the Wade Site, as illustrated in Figure 5-1. The support zone consisted of the office and supply trailers located on the portion of Flower Street and extended inside the site fence. Personnel protection was not required in the support zone and eating, drinking, and smoking were permitted in certain areas.

The contamination reduction zone (CRZ) served as the second work zone. The CRZ consisted of a wooden shelter built at the entrance to the former office building, in which tools and protective equipment were stored. This shelter also served as a dressing room wherein personnel protective equipment was donned. The second area within the CRZ was the first floor of the former office building. Personnel exiting the site were required to remove personnel protective equipment in this room. A triple bucket washing station was maintained for decontaminating workers' boots and reusable apparel. Boot racks were provided to maintain the boots in an orderly manner and to raise them off the floor to facilitate drying.

A separate CRZ, established near the terminus of Flower Street, was used for the decontamination of trucks, heavy equipment, and other vehicles which had entered the site. Initially, the vehicle CRZ consisted of a temporary wooden pad with a heavy synthetic liner for collection of decontamination rinsates. The temporary pad was replaced with a more durable one constructed of welded steel. Rinsates collected in the vehicle decontamination pad were pumped to the temporary water holding tanks in the former office building. Solids removed from the pad were placed on the contaminated soil pile and allowed to dry prior to off-site transport.

The third work zone established by RES was the exclusion zone (EZ). The EZ consisted of all of the remaining land area inside the fenced portion of the site. Throughout the majority of the site work, employees entering the EZ were required to utilize protective equipment, including air purifying or supplied air respirators. Access to the EZ was only to be gained via the CRZ and all individuals exiting the EZ were required to pass through the CRZ prior to entering the support zone.

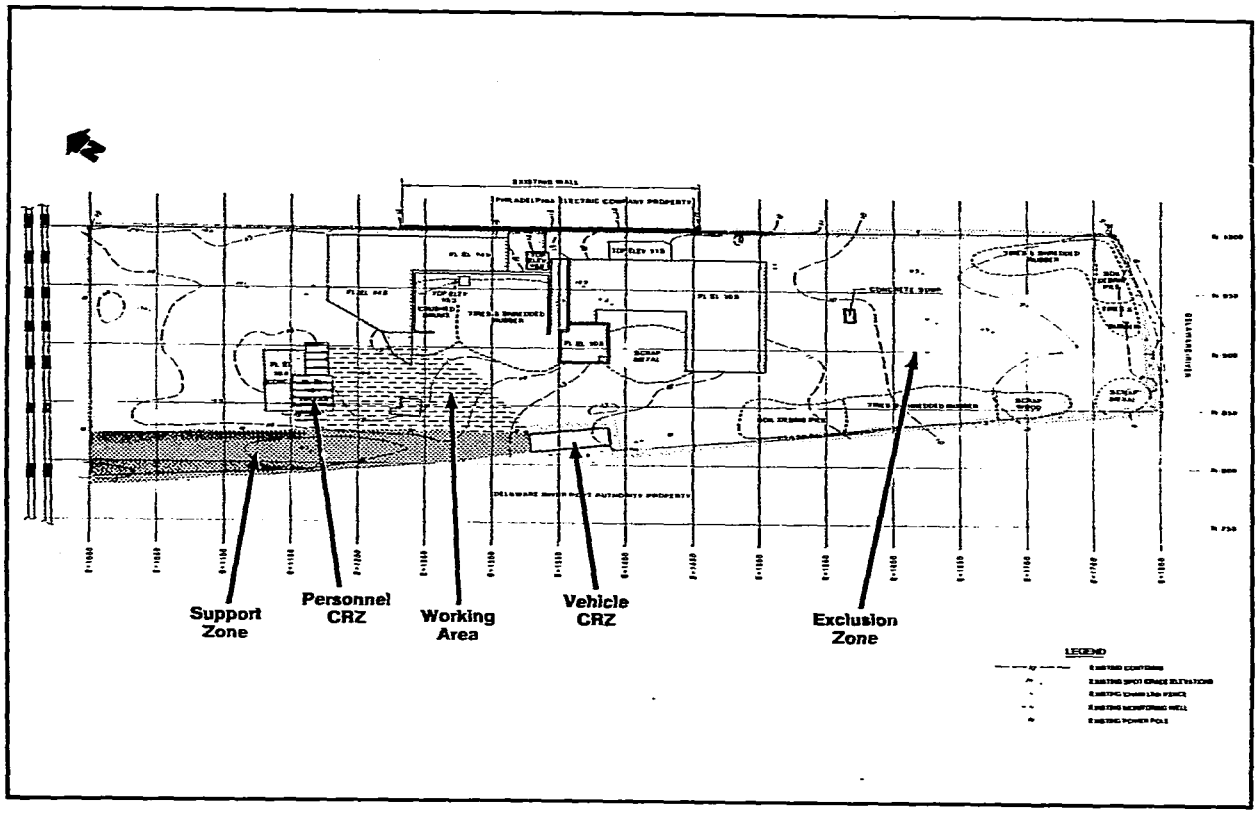

FIGURE 5-1 WORK ZONES

As the work progressed through the seven phases, the work tasks and the nature of the associated hazards changed. Due to these changes, the extent of the various work zones also changed. As the work progressed from phases involving hazardous materials into phases involving only general construction, the extent of the exclusion zone was reduced. Additionally, after all of the hazardous material work specified in the RFQ/P had been completed, the use of a CRZ was terminated and the former office building housing the CRZ was demolished.

5.3 Personnel Protection

The specifications in the RFQ/P included requirements for the provision and utilization of personnel protective equipment by personnel entering the exclusion zone of the CRZ. RES provided various levels of personnel protective equipment for its employees. Utilization of a given level of personnel protection was dependent upon the work or tasks to be performed and the nature of the associated hazards. The levels of personnel protective equipment used by RES are summarized in Table 5-1.

As the work progressed and the nature of the associated hazards and extent of work zones changed, the levels of personnel protection employed by RES in a given area also changed. For example, RES utilized levels D and D+ during Phase 1 mobilization activities, whereas Levels D and C were used during Phase 2 removal work. Levels C and B were utilized during Phases 3 and 4 as well as during the demolition work in Phase 5. Levels D and D+ were then used during the remaining general site work in Phases 5, 6, and 7.

5.4 Decontamination

As described previously, separate contamination reduction zones were established for the decontamination of personnel and equipment. Personnel decontamination consisted of washing the workers' outer boots, gloves, and reusable apparel in a triple bucket wash/rinse station located at the entrance to the first floor of the former office building. The workers' removed these items and placed their boots on a rack to facilitate drying. Disposable garments were then removed and placed in bags for disposal.

TABLE 5-1

LEVELS OF PERSONNEL PROTECTIVE EQUIPMENT

Designated Level of Protection	Work Zone or Tasks	Respiratory Protection	Safety Apparel
B	Exclusion Zone - drum opening and sampling; underground tank entry	Self Contained Breathing Apparatus	Chemically resistant coverall, rubber boots, neoprene or rubber outer gloves, latex (surgical type) under gloves, hard hat, steel toe boots, cotton work uniform.
C	Exclusion Zone - all other tasks during Phases 2, 3, 4, and most of 5	Air Purifying Respirator	Same as above.
D+	Contamination Reduction Zones	Not Required	Same as above with facial splash protection.
D	Support Zone (and entire site during Phases 6 and 7	Not Required	Hard hat, steel toe boots, cotton work uniform.

Some problems were encountered in regard to the establishment, utilization, and maintenance of the triple bucket wash/rinse station. Establishment of the station lagged behind the utilization of personnel protective equipment. Personnel utilized reusable protective equipment on-site for approximately two weeks prior to establishment of the wash/rinse station. Thus, reusable apparel was not subjected to the decontamination procedure during this period. Maintenance of the wash/rinse station improved progressively throughout the remedial action. Two maintenance problems encountered were the occasional freezing of the wash and rinse solutions and failure to regularly replenish and replace the solutions. These problems were communicated to RES as they were encountered and RES generally addressed them within a short time.

Decontamination of trucks, heavy equipment, and other vehicles which had entered the exclusion zone consisted of pressure washing using a "steam jenny" while the subject vehicle was parked on a containment pad. This proved to be an adequate means of decontaminating vehicles with the occasional exception of when very muddy conditions existed on-site. Maintenance of the containment pad consisted of pumping collected rinsates to the temporary tanks in the former office building and using hand tools to remove accumulated solids. Operation and maintenance of the vehicle CRZ proceeded smoothly, as these tasks were performed regularly.

5.5 Air Monitoring

RES performed a substantial amount of time weighted and real time air monitoring during Phases 1 through 6, inclusive. This work was performed via a subcontract with Phoenix Safety Associates of Phoenixville, Pennsylvania and supplemented by RES' in-house health and safety staff.

5.5.1 Time Weighted Monitoring

The specifications in the RFQ/P required the Contractor to establish six perimeter air monitoring stations and to collect volatile organic and particulate air samples from each of those stations on a daily basis. Of the samples collected, three were to be analyzed by a qualified laboratory on a 24-hour turnaround basis.

RES established five perimeter air monitoring stations, illustrated in Figure 5-2, and collected samples from each of these stations on a daily basis. Detailed records

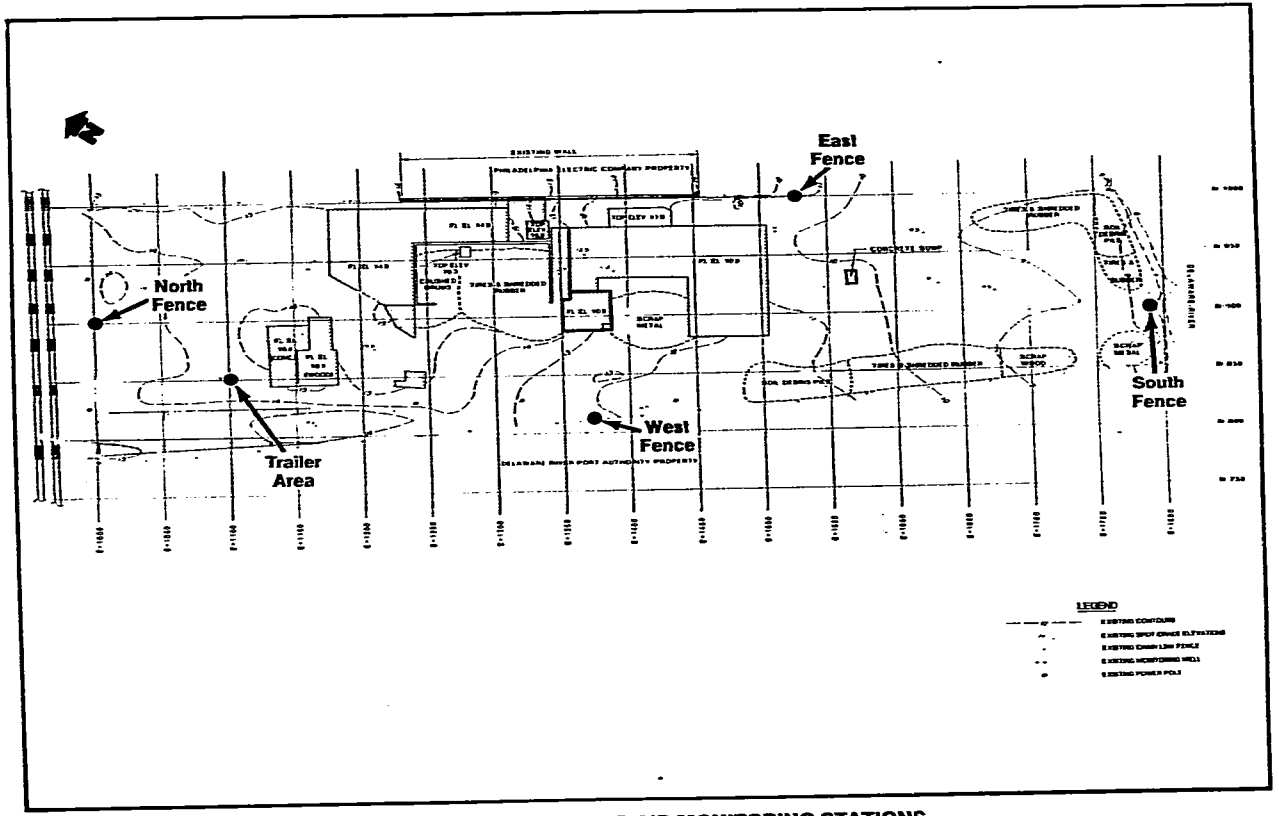

FIGURE 5-2 PERIMETER AIR MONITORING STATIONS

regarding air sample collection (including pump calibration and operation data) were maintained. The samples were analyzed by an independent laboratory; however, a minor modification to the 24-hour turnaround time requirement was approved by WESTON. Specifically, due to the limited number of samples sent to the laboratory on a daily basis, it was believed that the quality and reliability of the air data could be improved by batching the samples on a bi-daily basis. Therefore, the turnaround time was 48 hours for the samples received on the first day and 24 hours for the samples received on the second day. Summaries of the air monitoring data are provided in Tables 5-2 through 5-7.

The Contractor was also required to monitor meteorological conditions on an hourly basis during active site work and air sample collection. This information was important in the selection of perimeter air samples for laboratory analyses. During the initial phases, RES monitored meteorological conditions as reported for the Philadelphia Airport. Subsequently, an on-site meteorological station was installed in RES' trailer and was used to monitor wind speed, wind direction, and temperature.

5.5.2 Real Time Air Monitoring

The RFQ/P required the Contractor to perform hourly rounds of the perimeter and active work zone and to monitor these areas for volatile organic emissions using real time instrumentation. RES assigned this task to the Phoenix Safety health and safety technician. An HNu model PI-101 photoionization detector was used for the real time monitoring. Results of the field observations and instrument calibration data were recorded in a bound logbook as required by the RFQ/P.

The real time air monitoring showed that little or no volatile organic emissions resulted from implementation of the remedial action. The only exception to this occurred during excavation in grids 1, 17, 33, and 49 along the fenceline bordering Delaware Avenue. A sweet aromatic odor was noted in the support zone during this work and the health and safety technician was asked to investigate using the HNu monitor. It was found that the odor apparently originated from grid 33 and, although a slight odor was noticeable immediately outside the fence, it was not measurable using the HNu past the site fence.

FIGURE 5-2 through 5-7

SUMMARIES OF AIR MONITORING DATA

(to be provided)

5.6 Health and Safety Issues

During the course of the site work, several health and safety related issues and problems were encountered. The nature of these issues and the resolutions reached and corrective actions taken are described in this section.

5.6.1 Establishment of Work Zones

Section 13.4.4 of the RFQ/P required the Contractor to establish three distinct work zones, including an exclusion zone (EZ), a contamination reduction zone (CRZ), and a support zone (SZ). The purpose of these zones was to control access and egress from contaminated areas and to prevent persons without proper protective equipment from unknowingly entering areas where such equipment was required. Site work was initiated on January 9, 1987 and the work zones were not delineated as required until January 16, 1987. During this period, the Site Representative repeatedly advised RES of the importance of delineating the work zones.

RES delineated the work zones as previously described in Section 5.2. A network of color-coded wooden posts was used to delineate the exclusion and contamination reduction zones from the support zone. Monitoring the Contractor's adherence to these work zones proved to be difficult due to the fact that many of the color-coded posts were removed by heavy equipment or were obscured by material stockpiles. Additionally, RES revised the extent of the work zones during Phases 4 and 5 without prior notification to the DER or the Site Representative. These difficulties were addressed by RES (as requested by the Site Representative) by posting maps of the work site illustrating the current work zone delineation.

5.6.2 Provision of Health and Safety Technician Support

Section 13.4.3 of the RFQ/P required the Contractor to provide an industrial hygiene technician responsible for the implementation and enforcement of the personnel protection program. The industrial hygiene technician was required to be on-site at all times when the work was in progress.

RES initiated site work without the required industrial hygiene technician support. The Site Representative advised RES of this non-conformance on January 14, 1987. RES provided in-house industrial hygiene support on January 16, 1987, when Mr. Paul Thomas of RES(DE), Inc., Corporate

Health and Safety Director, was present on-site. RES subsequently subcontracted with Phoenix Safety Associates of Phoenixville, Pennsylvania to provide the required industrial hygiene technician. Phoenix Safety's coverage of the site continued from January 19, 1987 until March 21, 1987 when the individual hygiene technician was relieved of her duties by RES' Site Supervisor (see Section 5.6.2). Industrial hygiene support was not provided on March 23, 1987 and was provided for partial coverage on March 26, 1987. These deficiencies were communicated to RES' Site Supervisor and to the DER Contract Officer. Full time industrial hygiene support was provided from March 27, 1987 throughout the remainder of the site work.

5.6.3 Health and Safety Incidents

During the course of the site work, a number of health and safety incidents occurred. Copies of the incident reports prepared by RES and its health and safety subcontractor are provided in Appendix Q. Most of the incidents were of minor consequence and only one resulted in a lost time injury.

One significant incident did occur during the demolition phase of the work. On April 9, 1987, RES was progressively demolishing the former office building using a backhoe. During this work, the southern wall of the office building collapsed onto the wooden equipment storage shed situated in front of the building. An employee working in the shed narrowly avoided injury as the shed was severely damaged. This incident led to submittal of an incident report and a memo to RES' Site Supervisor from the health and safety subcontractor.

RES notified the DER of the incident on April 13, 1987 in a letter from Mr. Karl Shuler to Mr. James Snyder. Based on a review of the notification, WESTON recommended to the Contracting Officer that RES work at the Wade Site be suspended until certain safety issues (including notification and demolition procedures) could be resolved. Through continued correspondence and discussions, DER allowed the site work to continue concurrently with RES' corporate level investigation of the incident.

5.6.4 Hot Work Control

During the pre-construction conference held on-site on January 9, 1987, RES advised the DER and the Site Representative of a potential need to use hot work during the

demolition activities to cut through large steel members. Hot work was expressly prohibited by the RFQ/P and RES was reminded of this fact.

During the removal of tankers from the site during Phase 2, RES' Site Supervisor requested that hot work be allowed so that the tankers could be cut prior to off-site transport. RES was again advised that on-site hot work was prohibited by the RFQ/P. Consequently, RES elected to transport the tankers to a nearby yard where hot work could be used for tanker cutting.

Limited use of hot work was permitted on-site during the demolition activities. Torches were used to cut steel machinery mounts and bolts in excess of two inches in diameter, the steel bases of the rubber storage silos and the duct work leading to the overlying cyclones. Hot work permits were required for these tasks. The use of hot work for these tasks occasionally resulted in ignition of rubber tires or oily residues on surfaces adjacent to that being cut. In one instance, slag from the torch cutting ignited a small patch of grass outside the site fence adjacent to the storage silos. All of these events were easily controlled using hand-held fire extinguishers.

SECTION 6

OTHER INFORMATION

6.1 WESTON Level of Effort

During the course of the site work, WESTON utilized the experience of many individuals and expended a significant amount of effort in monitoring the performance of the Contractor and the acceptability of the work. WESTON's staffing for this Project consisted of a project engineer on-site full time supplemented with personnel from other disciplines as necessary. This full-time coverage was provided throughout the entire duration of the Project with the exception of three weeks during which time WESTON's contract with the DER had concluded and the DER was not able to determine with confidence that a budgetary increase would be authorized for WESTON's continued work. This budgetary increase was authorized and WESTON was able to continue its monitoring of the remedial action. Some of the other disciplines which were called upon for special expertise regarding specific aspects of the Project include:

- Civil Engineers: visited the site to evaluate the adequacy of sediment/erosion control measures; evaluated construction difficulties associated with installation of the two drainage swales; redesigned the drainage swales.
- Geotechnical Engineers: reviewed geotechnical data submitted by the Contractor; evaluated RES' petition for relief from the compaction specifications; evaluated RES' methods of placing and compacting backfill.
- Health and Safety Specialists: reviewed RES' phase specific health and safety plans; evaluated RES' request for progressive sequencing of demolition work; inspected RES' health and safety facilities.
- Air Quality Specialist: provided technical assistance regarding asbestos removal during demolition work.
- Draftsmen: revised site drawings to design changes made by the Civil Engineers.
- Field Technicians: investigated areas of the site posing compaction difficulties by collecting soil samples from certain grids.

Another important resource called upon for support during the Project was WESTON's laboratory. The laboratory was contracted by RES to perform analyses of the site's sanitary wastewater as requested by DELCORA. Additionally, the laboratory performed analyses of samples collected from PCB suspect areas and surfaces. This work was accomplished on a standing contract between WESTON and the DER.

WESTON's activities necessitated the use of several secretarial and other support personnel. The substantial volume of WESTON correspondence directed to both RES and the DER, and the need for rapid dissemination of information pertinent to site operations necessitated a great deal of short lead time effort on the part of the support staff. Computer support was employed extensively in the review and evaluation of the change order requests submitted by RES.

6.2 Items Transmitted to the DER

The following Wade Site Project documents and records maintained by WESTON were transmitted to Mr. Donald Becker of the DER:

1. Logbooks

   - Wade Site Inspection Log #1 - January 1987
   - Wade Site Inspection Log #2 - February 2, 1987 through March 2, 1987
   - Wade Site Inspection Log #3 - March 3, 1987 through March 18, 1987
   - Wade Site Inspection Log #4 - March 18, 1987 through April 11, 1987
   - Wade Site Inspection Log #5 - April 11, 1987 through June 2, 1987
   - Wade Site Inspection Log #6 - June 3, 1987 through July 9, 1987

2. Videotapes

   - Wade Site Cleanup #1 (January 12, 1987 through undated)
   - Wade Site Final Cleanup Tape #2

- Wade Site Final Cleanup Tape #3 (March 6, 1987 through undated)
- Wade Site Final Cleanup Tape #4 (March 9, 1987)
- Wade Site Final Cleanup Tape #5 (undated)
- Wade Site Final Cleanup Tape #6 (April 2, 1987)

3. Photographs

One print of all photographs taken by WESTON documenting the site work. Each of the photographs was numbered and labelled with the site name, location, date, and a description of the photograph. Selected photographs appear throughout this report.

4. Drawings

Two full size copies of the design drawings utilized by WESTON personnel on-site as working drawings.

000391

WESTON

APPENDIX A

RECORD OF DECISION

EPA

Superfund Record of Decision:

Wade Site, PA

000533

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO.	2.	3. RECIPIENT'S ACCESSION NO.
EPA/ROD/R03-84/009		

4. TITLE AND SUBTITLE	5. REPORT DATE
SUPERFUND RECORD OF DECISION: Wade Site (ABM), PA	08/30/84 6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S)	8. PERFORMING ORGANIZATION REPORT NO
9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT NO. 11. CONTRACT/GRANT NO
12. SPONSORING AGENCY NAME AND ADDRESS U.S. Environmental Protection Agency 401 M Street, S.W. Washington, D.C. 20460	13. TYPE OF REPORT AND PERIOD COVERED Final ROD Report 14. SPONSORING AGENCY CODE 800/00
15. SUPPLEMENTARY NOTES	

16. ABSTRACT

The Wade site is a three acre parcel of land on the banks of the Delaware River. It is located nine miles south of Philadelphia in Chester, Pennsylvania. From approximately 1950 until the early 1970's the site was the location of a rubber recycling facility which shredded tires and other post-consumer rubber products. During the early 1970's the site was converted to an illegal industrial waste storage and disposal facility. Drums of waste were emptied either directly onto the ground or into trenches, severely contaminating soil and the ground water. Approximately 150,000 gallons of waste chemicals remain on-site.

The recommended alternative selected for this site consists of: removal, decontamination and disposal of on-site tires and tankers, removal of on-site waste piles; demolishing buildings, leveling the site, and filling and grading the property up to 12 inches over the existing grade to cover any protruding subsurface structures which have not been removed; removal down to the depth at which the first acceptably contaminated sample was found (based on a contamination cutoff level recommended by the RI/FS contractor); and covering the site with top-soil and seeding the cap to minimize erosion.

Key Words: Compliance with Environmental Laws, Negotiations, Capping, Excavation, Ground Water, Cost Recovery, Potential Responsible Parties

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Record of Decision: Wade Site (ABM), PA Contaminated media: gw, soil, air Key contaminants: over 100 organics, metals and inorganics		

18. DISTRIBUTION STATEMENT	19. SECURITY CLASS (This Report) None	21. NO. OF PAGES 30
	20. SECURITY CLASS (This page) None	22. PRICE

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000534

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Include a brief *(200 words or less)* factual summary of the most significant information contained in the report. If the report contains a significant bibliography or literature survey, mention it here.

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(b) IDENTIFIERS AND OPEN-ENDED TERMS - Use identifiers for project names, code names, equipment designators, etc. Use open-ended terms written in descriptor form for those subjects for which no descriptor exists.

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000395

ENFORCEMENT DECISION DOCUMENT
REMEDIAL ALTERNATIVE SELECTION

Site: Wade
Chester, Pennsylvania

Documents Reviewed

I am basing my decision on the following documents describing the analysis of the cost and effectiveness of remedial alternatives for the Wade Site:

- Focused Feasibility Study, Wade Site, Chester, Pennsylvania, Metcalf & Eddy, Inc., April 1984.

- Draft Report, Result of Soil Analysis and Cost Estimates for selected Remedial Activities regarding the Wade Hazardous Waste Site in Chester, PA. Roy F. Weston, November 1983.

- Summary of Remedial Alternatives Selection

- Public Comments and Recommendations

- Responsiveness Summary

Description of Selected Remedy

- remove and dispose of tires and tankers

- remove on-site waste piles

- demolish buildings

- test contents, remove contents, and close two underground storage tanks

The building on this site will be demolished and the remaining slabs will be left on site for future use. All demolition rubble will remain on the property and used for fill material.

- level debris, fill and grade property

- remove and dispose of contaminated soil

The purpose of this activity is to remove from the property any contaminated material and any material that will hinder subsequent efforts to fill and grade the site.

- cover with topsoil and seed cap

- operation and maintenance of site

Declarations

Consistent with the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) and the National Contingency Plan (40 CFR Part 300), I have determined the removal, decontamination and disposal of tankers, tires and debris; destruction of buildings, leveling, filling and grading the site; and covering with a seeded topsoil cap at the Wade site is the least costly alternative of all the remedial options reviewed that provides for current and future protection of public health, welfare and the environment. The State of Pennsylvania has been consulted and agrees with the approved remedy. In addition, the action will require future operation and maintenance activities to ensure the continued effectiveness of the remedy. Settlements have been reached between EPA and the responsible parties based on the selected remedy.

I have also determined that the action being taken which includes the off-site transport of contaminated materials to a RCRA approved lined facility is the least costly alternative when compared to the other remedial options reviewed, and is necessary to protect public health, welfare, or the environment.

9/30/84
Date

Lee M. Thomas
Assistant Administrator
Office of Solid Waste and
Emergency Response

000397

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
SOLID WASTE AND EMERGENCY RESPONSE

AUG 3 1984

MEMORANDUM

SUBJECT: Enforcement Decision Document Approval for the Remedial Action at the Wade Site, Chester, Pennsylvania

FROM: Gene A. Lucero, Director Gene A. Lucero
Office of Waste Programs Enforcement

TO: Lee M. Thomas
Assistant Administrator

This Office has reviewed the Enforcement Decision Document and the Focused Feasibility Study for the Wade Site. I recommend that you approve the recommended alternative which will provide for future protection of public health, welfare, and the environment.

000538

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JUL 30 1984

OFFICE OF
SOLID WASTE AND EMERGENCY RESPONSE

MEMORANDUM

SUBJECT: Enforcement Decision Memorandum for Approval of Remedial Action at the Wade Site, Chester, Pennsylvania

FROM: Russel H. Wyer, Director
Hazardous Site Control Division (WH-548E)

TO: Gene A. Lucero, Director
Office of Waste Programs Enforcement (WH-527)

The Enforcement Decision Memorandum and the Focused Feasibility Study for the Wade Site has been reviewed by my staff.

I Concur X

I Do Not Concur _____

I Concur with Comments _____

000599

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

AUG 1 1984

OFFICE OF
ENFORCEMENT AND
COMPLIANCE MONITORING

MEMORANDUM

SUBJECT: Enforcement Decision Memorandum for Approval of Remedial Action at the Wade Site, Chester, Pennsylvania

FROM: Frederick F. Stiehl
Acting Associate Enforcement Counsel
for Waste (LE-134S)

TO: Gene A. Lucero, Director
Office of Waste Programs Enforcement (WH-527)

The Enforcement Decision Memorandum and the Focused Feasibility Study for the Wade site has been reviewed by my staff.

I Concur ✓

I Do Not Concur _____

I Concur with Comment _____

000630

Summary of Remedial Alternative Selection
Wade Site
Chester, Pennsylvania

Site Location, Description and History

The Wade site is a three acre parcel located on the banks of the Delaware River, just nine miles south of the City of Philadelphia, in Chester, Pennsylvania. The site is located in the industrial portion of Chester and is two blocks from the residential portion of the City. The site is bounded by the Commodore Barry Bridge, the Delaware River, a railroad right-of-way, and property owned by the Philadelphia Electric Company. From approximately 1950 until the early 1970's, the site was the location of the Eastern Rubber Recycling Company, a firm which shredded tires and other post-consumer rubber products. This use was abandoned during the 1970's and the site was converted to an illegal industrial waste storage and disposal facility. Drums of wastes were emptied either directly onto the ground or into trenches, thus severely contaminating soil at several locations, as well as jeopardizing the ground water beneath the site. In February 1978, a fire broke out which was so severe that the Commodore Barry Bridge was closed for 6 hours and 45 firemen required examination at the local hospital. As a result of the fire, one of the site buildings was completely destroyed and two others were seriously damaged. Large piles of debris containing exploded drums, building materials, tires, and shredded rubber (from the rubber recycling operations), and chemically-contaminated earth littered the property. Approximately 150,000 gallons of waste chemicals remained after the fire; most of the material was contained in 2,500 55-gallon drums located inside the fire damaged buildings, although a large portion was stored in 5 bulk tankers in the front lot.

In 1980 and 1981, contractors were engaged by the Pennsylvania Department of Environmental Resources (DER) and the U.S. EPA to remove and dispose of the drums (and their contents) contained in the buildings, to remove and dispose of the contents of the tankers, and to perform an investigation of the site's soil, ground water, and air quality. WESTON personnel served as the DER Site Representative for the day-to-day monitoring of Contractor activities.

000691

Subsequent to the above on-site activities, CECOS was engaged by the DER in the summer of 1983 to investigate and characterize the remaining hazardous and non-hazardous elements of the site, such as debris piles and contaminated soil.

The following activities composed the scope-of-work for CECOS:

1. "pick through" the debris and rubble to isolate all drums;
2. analyze the contents of drums containing chemicals;
3. repackage leaking drums in secure containers;
4. stage drums containing chemicals in accordance with their contents;
5. crush all empty drums;
6. analyze soil and debris for contamination;
7. determine locations and quantities of contaminated soil and debris; and
8. determine quantities and compositions of drummed chemicals.

In addition to the above, CECOS staged the debris into separate piles (for tires and shredded rubber, wood, scrap metal, and potentially contaminated soil) and transported and disposed of all drums containing chemicals found during the site characterization.

Since the number of drums containing chemicals was not known until the characterization was complete, removal and disposal of such drums were not included in the scope-of-work, as described in the DER's request for proposals for this site characterization. It turned out that there were 750 drums containing chemicals. It was decided from a cost and safety standpoint that these drums should be removed and disposed under this contract rather than placing them in secure storage on the site for disposal under a later contract. The Contractor, therefore, was directed, under an explicit contract option for "out-of-lump sum" work, to perform the disposal activities. Empty drums were not disposed of.

CECOS was on the site from August 1 to September 10, 1983. During that time approximately 5,000 cubic yards of debris were picked through and staged in separate piles, approximately 750 drums containing chemicals were characterized; wastes were repackaged in secure containers when necessary; combined in compatible groups when possible; 630 drums were disposed; and 320 soil samples were obtained and analyzed.

The DER monitored work acceptability and efficiency through persons formally named (in the CECOS Contract) as Cleanup Director and Site Representative. The Cleanup Director had ultimate responsibility for the site and for monitoring the Contractor's performance. The Site Representative was an employee of WESTON who was on-site full-time and represented the Cleanup Director in his absence and was authorized to make specific decisions on behalf of the DER. All cleanup actions taken to date at the site by the DER were done with the concurrence of EPA. The Agency was intimately involved, both technically and legally, in the development and implementation phases of the cleanup. All proposed actions were reviewed to assure that they complied with Federal environmental regulations which existed at the time.

A separate report has been prepared by WESTON titled, "Cost Estimates for Selected Remedial Activities in Response to Hazardous Conditions present at the Wade Property in Chester, Pennsylvania." The analytical results of the soil sampling program performed by CECOS are presented in that report since they provide the basis for the cost estimates of removing contaminated soil.

A focused feasibility study (FFS) and Endangerment Assessment for the Wade site were tasked to Metcalf & Eddy, Inc., by EPA in February 1984. The FFS considers the endangerment and recommends the most cost-effective remedial alternative.

Current Site Status

A plan of the site is presented in Figure 1. The grid markings shown on the figure were used for locating the soil sampling points. As can be seen from the figure, the site contains seven structures, four rubber storage tanks, seven tankers, a pump pit, and eleven piles of debris.

The structures vary in structural integrity from moderate to poor, all having been damaged by the fire in 1978. Although not indicated by the figure, the concrete pad underlying grids 22 and 23 was the floor of a two-story stone and brick building which was completely demolished in the fire. There is heavy machinery bolted to this pad and also in place in the building encompassed by grids 24, 25, and 26. In general, the buildings on the site pose a physical hazard, due to lack of structural integrity, to persons entering them or walking near them.

The tankers are empty with the possible exception of rainwater. Five of the seven tankers were used to contain solid and semisolid chemicals which were removed and disposed during the DER's cleanup operation in 1980. Like the buildings on the site, the structural integrity of the tankers ranges from moderate to poor and it is assumed that none of them is able to be towed over the road supported by their undercarriage.

The pump pit is a concrete rectangular structure greater than 15 feet deep and currently back filled with soil. It is not believed that the pit is connected to the river though it historically contained a pump used to obtain process water for the rubber company's operations.

The piles of debris located at several parts of the site were formed as a result of the site characterization and contain separate categories of waste, such as: tires and shredded rubber, potentially contaminated soil, scrap metal, scrap wood, and crushed empty drums. All of these separate materials were formerly found mixed together in scattered piles across the site prior to the site characterization.

The site itself is level and essentially barren of vegetation due to excavation and grading performed during the site characterization. Vegetation was present, however, prior to those activities and it is expected to return.

000605

Over one hundred different organic and inorganic compounds and metals have been identified on the Wade property during the course of investigations at the site. While the majority have been identified in surface soils many have been detected in both air and ground water samples taken from the site.

Sampling by R.F. Weston indicated that contamination of soils on the site is widespread. Weston divided the site into approximately 60 grids and sampled for total volatile organic compounds (VOC) and total baseneutral and acid extractable (BNA) fractions of priority pollutants at four points within each grid. Their results showed contamination by VOC, BNAs, or both of the top 12 inches of soil in nearly every grid. In general, BNA fraction was present in higher concentration than the VOC fraction.

Despite the numerous investigations that have taken place on the site, the data do not easily permit generalization of the areal extent of contamination by any one compound.

Many of the compounds found on site have been associated with a variety of health effects in humans, laboratory animals, or both, when inhaled or ingested in sufficient quantities. At least six organic compounds or classes of compounds are suspect human carcinogens; benzene, chlorinated benzenes, chloroform, tetrachloroethylene, trichloroethylene, and bis(ethylhexyl phthalate). Certain metals found at the site - hexvalent chromium and arsenic - are also suspect human carcinogens. Lead is also present in the soils and ground water.

The principal conclusions to be drawn from the site investigation and endangerment assessment are:

1. Based on the monitoring results, concentrations of volatile organic compounds on the Wade site do not present acute exposure hazards to persons on or off site. Although low by acute standards, concentrations of benzene found did present slighty elevated lifetime risks of cancer to persons directly on site.

2. Inhalation/ingestion of contaminated soil is potentially the most serious route of exposure for persons entering or playing on the site. Under the assumptions used in the FS, lifetime risks of cancer (10^{-4}) from inhaling/ingesting small amounts of contaminated soil on the site were higher than risks from other routes of exposure. Sampling results indicate that the concentrations of benzene found on the site are associated with risks of cancer that are 5-10 times higher than those considered as negligible. This finding applies only to persons with chronic exposures to soil on the site (i.e., children playing on the site over long periods of time). No evidence of potential acute health effects were found, a finding consistent with results of a study by the Center for Disease Control.

3. Persons entering the site may be exposed to toxic chemicals both in the air and in contaminated soil and are therefore the most susceptible population at risk from contaminants on the Wade Site.

4. Underground tanks and tunnels, structurally damaged buildings, and piles of flammable debris present immediate safety hazards to persons entering or playing on the site.

5. Drinking water and fish are not likely to be significant routes of exposure to chemicals from the Wade site. Ground water beneath the site is not used as a source of drinking water and concentrations of chemicals in the Delaware resulting from contaminated ground water discharge to the Delaware are estimated to be negligible.

6. Contamination on the Wade site is not expected to have a serious impact on the environment either through volatilization of chemicals to the air or release of contaminants via ground water to the Delaware River. Both releases have been estimated to be extremely low.

Enforcement

In December of 1978, [illegible] to list candidates for [illegible] Pennsylvania DER, which had [illegible] and ABM to clean up the site in 1979, recommended the Wade Site. Waste leaking, spilled, or otherwise released from drums, tanks or other containers did not provide an imminent and substantial endangerment to health and the environment by the EPA. On April 20, 1979, the EPA commenced a civil action against Wade and ABM. The Court ordered them to clean up the site. The complaint was amended in March of 1980 to join Ellis Barnhouse and Frank Tyson, former presidents of ABM. When it became apparent that the current defendants were insolvent, a year long investigation of ABM's generator customers took place. After 32 generators settled for 1.6 million dollars, EPA sued the remaining 6 generators in the original clean-up action in December of 1981. In September of 1982 the Court dismissed the injunctive relief claims against the generators and EPA then commenced a CERCLA §107 cost recovery action which is the current basis for the action against the generators. In May of 1984, the remaining generators agreed to settle with EPA and the State. Settlement agreements are being negotiated.

Initial Remedial Alternative Screening

Several alternatives were evaluated by Mitre, NEK, Weston, EPA and DER. Based on an initial screening, the following alternatives were rejected:

1. Volatilization of volatile contaminants by excavating the soil and spreading it in thin layers and turning periodically to expose it to the atmosphere or placing the soil in windrows. This technique was rejected on the basis of low efficiency due to the small size of the site, no off-site location available, no removal of BN/A contaminants, the requirement of air monitoring, unpredictable weather conditions, and the possible requirement of mechanical aeration.

2. Land farming and composting, for aerobic degradation of organic contaminants. This alternative was rejected because of the possible requirement for commercially-developed mutant bacteria, the low concentrations of organic material present in the soil, required treatability studies and pilot testing, specialized equipment, long processing times, continuous monitoring and because the technique had not been proven for decontamination of soil.

3. Creation of a secure cell on-site, by means of an impermeable cover, continuous monitoring of ground water and possibly impermeable side walls or liner to prevent migration of contaminants away from the property boundaries. This alternative was rejected because the contaminated soil would remain in an urban area, the cell would have to be perpetually monitoried, the hydrological properties of the site are not suitable for a secure cell, the property would have to be restricted from other use and State and Federal permits may be required.

4. Total removal and off-site disposal of soil at a licensed, secured landfill and backfilling the site with imported soil. This alternative was rejected because site investigation shows the soil contamination is localized in discrete areas and because of the high cost of this solution.

Remedial Alternative Screening

In order to perform a detailed evaluation, it was necessary to develop a list of remedial alternatives which would include a No Action Remedial Alternative. Metcalf & Eddy developed 12 alternatives for the Wade site, based on Weston's six soil removal options. (See Table 2 for soil removal options.)

Alternatives:

1. No Action
2. Remove, decon & dispose of tires & tankers, remove on-site waste piles; demolish buildings, level site, fill and grade property.
3. Remove, decon & dispose of tires & tankers, remove on-site waste pile; demolish buildings, level site, fill and grade property, cover with asphalt cap.
4. Remove, decon & dispose of tires & tankers, remove on-site waste piles; demolish buildings, level site, fill and grade property, cover with topsoil and seeded cap.
5. Remove, decon & dispose of tires & tankers, remove on-site waste piles; demolish buildings, level site, fill and grade property, soil removal option 1A, cover with asphalt cap.
6. Remove, decon & dispose of tires & tankers, remove on-site waste piles; demolish buildings, level site, fill and grade property, soil removal option 1A, cover with topsoil and seeded cap.
7. Remove, decon & dispose of tires & tankers, remove on-site waste piles; demolish buildings, level site, fill and grade property, soil removal option 1C, cover with asphalt cap.
8. Remove, decon & dispose of tires & tankers, remove on-site waste piles; demolish buildings, level site, fill and grade property, soil removal option 1C, cover with topsoil and seeded cap.
9. Remove, decon & dispose of tires & tankers, remove on-site waste piles; demolish buildings, level site, fill and grade property, soil removal option 2A, cover with asphalt cap.
10. Remove, decon & dispose of tires & tankers, remove on-site waste piles; demolish buildings, level site, fill and grade property, soil removal option 2A, cover with topsoil and seeded cap.

Table 2

Soil Excavation/Removal Remedial Alternatives

1. Remove contaminated soils exceeding organic contaminant concentration of either 100 mg/kg volatile organics or 100 mg/kg base, neutral/acid organics.

   A. Excavate to Last Contaminated Depth[1]
   B. Excavate to Intermediate Depth[2]
   C. Excavate to Uncontaminated Depth[3]

2. Remove soils exceeding an organic contaminant concentration of either 100 mg/kg volatile organics or 500 mg/kg base, neutral/acid organics.

   A. Excavate to Last Contaminated Depth[1]
   B. Excavate to Intermediate Depth[2]
   C. Excavate to Uncontaminated Depth[3]

1/ Soil removed down to depth at which last contaminated soil was found.

2/ Soil removed down to depth at which last contaminated sample was found if threshold level exceeded by 20 percent or less; one foot deeper than last contaminated depth if threshold level exceeded by 21 to 100 percent; and down to depth at which first uncontaminated sample was found if threshold level exceeded by greater than 100 percent.

3/ Soil removed down to depth at which first uncontaminated sample was found.

000611

TABLE 1. DELAWARE RIVER CONTAMINATION ASSESSMENT

Compound	Groundwater Concentration (ug/L)	Station Number	Concentration in Delaware R.(1) after mixing-Full Flow (ug/L)	Concentration in Delaware R.(1) after mixing -1/2 Flow (ug/L)	Ambient Water Quality Criteria for Saltwater Aquatic Life
Acetone	133,000	B4A	0.1392	0.278	
Acetone and Dimethly Sulfide	9,000	B8A	0.0093	0.0185	
Acetone and Dimethyl Sulfide	2,800	B9A	0.0028	0.0058	
Benzene	3,300	B4A	0.0032	0.0064	5100 ug/L Acute; 700 ug/L chronic
Benzene	<2.0	B6,6A	0.000087062	0.000004	
Benzylchloride	21	B1A	0.000022	0.00004	
Chlorobenzene	2,700	B7	0.0073	0.0045	
Chlorobenzene	56	B6	0.00003776	0.000115	
Chloroform	27,000	B4A	0.028	0.05	
Chloroform	146	B8	0.0001508	0.0003	
Chloroform	148	B8A	0.0001485	0.0003	
Chloroform	53	B4	0.000059	0.0001	
Chloroform	50	B5	0.000052	0.0001	
Chloroprene	30	B1A	0.000432	0.000062	
Chloroprene	21	B9	0.000022	0.00004	
Dichlorobenzene	678	B2	0.0007	0.0014	1970 ug/L (acute)
Dichlorobenzene	<2.0	B6,6A	0.000087062	0.000004	
1,1 Dichloroethane	5,400	B4A	0.003507	0.007	
1,1 Dichloroethane	850	B8A	0.00088	0.00175	
1,1 Dichloroethane	118	B8	0.000123	0.00024	
1,1 Dichloroethane	54	B2	0.0000557	0.0001	
1,2 Dichloroethane	8,500	B3A	0.0067	0.0134	113,000 ug/L (acute)
1,2 Dichloroethane	282	B8A	0.00029887	0.00058	
1,2 Dichloroethane	88	B4	0.00009	0.0002	
1,2 Dichloroethane	78	B6	0.0000764	0.00015	
1,2 Dichloroethane	30	B5	0.0000309	0.00062	
1,2 Dichloroethane	28	B2	0.000029	0.00005	
1,2 Dichloropropane	7,950	B3A	0.0073	0.00005	10,700 ug/L (acute); 450 ug/L chronic
1,2 Dichloropropane	1,720	B4A	0.00184	0.0145	
1,2 Dichloropropane	450	B9	0.0004642	0.0037	
1,2 Dichloropropane	237	B9A	0.00024	0.0009	
1,2 Dichloropropane	229	B3A	0.000236	0.0005	
1,2 Dichloropropane	56	B2	0.000057	0.00[illegible]15	
1,2 Dichloropropane	35	B8A	0.0000367	0.000[illegible]2	
1,2 Dichloropropane	19	B8	0.0000196	0.00004	
Dimethlsulf ...	9,000	B3A	0.0052	0.01	

0000012

11. Remove, decon & dispose of tires & tankers, remove on-site waste piles; demolish buildings level site, fill and grade property, soil removal option 2C, cover with asphalt cap.
12. Remove, decon & dispose of tires & tankers, remove on-site waste piles; demolish buildings, level site, fill and grade property, soil removal option 2C, cover with topsoil and cap.

Screening Considerations:

A. Ground water

The hydrological evaluation determined that the Delaware River is the outflow point for ground water from the Wade site. The results of the evaluation indicate that, based on all organic contaminants detected in ground water at the site, continued input of contaminated ground water to the Delaware River under the no-action alternative would not have a measurable adverse impact on water quality or biota, if contaminated soil was removed from the site. The concentrations of individual organics after mixing of ground water with both the estimated full flow and half flow of the Delaware River are all well below all applicable Ambient Water Quality Criteria and U.S. EPA Health Advisories for ingestion of toxic and carcinogenic compounds in water (Table 1). Therefore, due to the negligible impact of ground water on the off-site environment and public health, groundwater interception and withdrawal remedial actions were eliminated from further consideration.

B. Soil Excavation/Removal Remedial Alternatives

Six remedial alternative soil excavation/removal options (1A, 1B, 1C, 2A, 2B and 2C) were developed by Roy F. Weston based on either of two threshold levels of organic contaminants for defining whether the soil is contaminated (See Table 2.) One threshold level on which three of the alternatives (1A, 1B, 1C,) were based was 100 mg/kg for both the volatile and base neutral/acid (BN/A) fractions. The second, on which the remaining three (2A,2B, 2C) alternatives were based, was 100 mg/kg for the volatile fraction and 500 mg/kg for the BN/A fraction. Metcalf & Eddy reviewed the confirmed contaminated soil excavation quantities and potentially contaminated soil quantities for Options 1A, 1C, 2A and 2C, determined by R.F. Weston. A conservative approach was taken due to possible synergistic effects.

Table 3 (Continued). DELAWARE RIVER CONTAMINATION ASSESSMENT

Compound	Ground water Concentration (ug/L)	Station Number	Concentration in Delaware R.(1) after mixing-Full Flow (ug/L)	Concentration in Delaware R.(1) after mixing -1/2 Flow (ug/L)	Ambient Water Criteria for [illegible]
Ethyl Benzene	315	B-3A	0.00755	0.01508	
Ethyl Benzene	31	B-3	0.0001848	0.000933	
Ethylether	5,000	B-3A	0.0038.9	0.00316	
Ethylether	5,000	B	0.00[illegible]4	0.00[illegible]2	
Isopropyl Alcohol	33,000		0.01[illegible]5	0.055	
Isopropyl Alcohol	4[illegible]		0.00[illegible]5	0.0118	
Isopropyl Alcohol	4[illegible]		0.[illegible]15	0.0103	
Isopropyl Benzene	103	-	0.00[illegible]103	0.00078	
Isopropyl Benzene	13	B-2	0.00[illegible]158	0.00003	
Methylalchohol	1,200	B-3A	0.00126	0.0029	
Methylene Chloride	11,000	B-3A	0.012	0.0755	
Methylene Chloride	110	B-3A	0.00012	0.0002	
Methylethylketone	7,700	B-3A	0.0079	0.0158	
Methylisobutylketone	85,000	B-3A	0.0877	0.1755	
Methylisobutylketone	1,270	B-3A	0.00131	0.00262	
Methylisobutylketone	400	B-3A	0.000415	0.0008	
Methylisobutylketone	60	B-3A	0.000062	0.000124	
Methylisobutylketone	42	B-4	0.0000[illegible]332	0.000087	
Methylisobutylketone	3.0	B-3	0.0000[illegible]038	0.0000062	
Methylmethacrylate	1,100	B-3A	0.[illegible]135	0.0023	
n-Propylalchohol	200	B-4	0.[illegible]3	0.0004	
Tetrachloroethylene	21	B-3A	0.[illegible]002	0.000043	10,200 ug/L 7-day 4-hr ugh chronic
Tetrachloroethylene	12	B-3	0.[illegible]1.0	0.000025	
Tetrahydrofuran	28,000	B-3A	[illegible].7	0.058	
Tetrahydrofuran	2,360	B-3A	0.0[illegible]372	0.0047	
Tetrahydrofuran	1,400	B-3	0.[illegible]3	0.0028	
Tetrahydrofuran	300	B-3A	0.0[illegible]018	0.00062	
Tetrahydrofuran	260	B-3	0.[illegible]25	0.00157	
Tetrahydrofuran	150	B-2	0.[illegible]93	0.00308	
Tetrahydrofuran	120	B-3A	0.[illegible]17.3	0.00035	
Tetrahydrofuran	120	B-3A	0.[illegible]17.3	0.00035	
Toluene	12,400	B-3A	0.[illegible]7	0.025	6,300 ug/L (4-day average) chronic
Toluene	<2.0	B-3A	0.0[illegible]2062	0.0000[illegible]8	
Trans-1,2 Dichloroethylene	300	B-3A	0.0[illegible]0.8	0.00062	220,000 ug/L (acute)
Trans-1,2 Dichloroethylene	30	B-3	0.0[illegible]0.8	0.00062	
Trans-1,2 Dichloroethylene	6.0	B-2	0.0[illegible]062	0.0000124	

TABLE 8 (Continued). DELAWARE RIVER CONTAMINATION ASSESSMENT

Compound	Groundwater Concentration (ug/L)	Station Number	Concentration in Delaware R.[1] after mixing-Full Flow (ug/L)	Concentration in Delaware R.[1] after mixing -1/2 Flow (ug/L)	Ambient Water Quality Criteria for Saltwater Aquatic Life
1,1,1 Trichloroethane	21,600	B4A	0.0725	0.0445	31,200 ug/L (acute)
1,1,1 Trichloroethane	425	B4A	0.000438	0.0009	
1,1,1 Trichloroethane	77	B8	0.0000794	0.00018	
1,1,1 Trichloroethane	72	B4	0.000074	0.00015	
1,1,1 Trichloroethane	49	B3	0.0000505	0.0001	
1,1,1 Trichloroethane	18	B1A	0.0000183	0.00002	
Trichloroethylene	9,300	B4A	0.0955	9.0199	2,000 ug/L (acute)
Trichloroethylene	24	B4	0.000025	0.00005	
Trichloroethylene	17	B3	0.00000383	0.000033	
Xylene	18,700	B4A	0.0192	0.03	
Xylene	616	B8A	0.000635	0.0013	
Xylene	63	B3	0.000065	0.00013	
Xylene	60	B4	0.000062	0.000124	
Xylene	56	B9A	0.0000576	0.0001	
Xylene	54	B5A	0.0000557	0.0001	
Xylene	42	B1A	0.00004332	0.000086	
Xylene	39	B1A	0.0000402	0.00008	
Xylene	36	B7	0.000037	0.000074	
Xylene	19	B5	0.00002	0.00004	
Xylene	11	B1	0.0000113	0.000023	
Xylene	<2.0	B2A	0.000002062	0.000004	
Xylene	<2.0	B4A	0.000002062	0.000004	

There are currently no standards for exposure to total volatile organic (VOC) or base neutral/acid extractable (BNA) fractions in soil. The toxicity of the contaminated soil depends in part on the individual compounds present and in part on any additive or synergistic effects that the compounds may exert together. Since no compelling toxicological evidence supports a threshold of 100 mg/kg of total VOCs or BNAs versus 50 mg/kg or 150 mg/kg, it is unlikely that any meaningful distinction can be made between excavating to "clean" depth or to one foot below the last contaminated sample on the basis of public health impact.

In several grids, the concentration composites indicated contaminant levels greatly exceeding the set threshold levels, yet analysis of the quadrants' analytical data indicates the opposite. In other grids, this relationship was reversed. These results suggest that the sampling method may not be an accurate indicator of the extent of contamination of the whole grid. While this lack of correlation is a general problem with all the soil removal options, it suggests that making distinctions between soils that are 20%, 21-100% or greater than 100% over ( ) threshold is not valid over an entire quadrant. On the ba( ) of the toxicological issues and the sampling discrepancies, Metcalf & Eddy concluded that soil removal options 1B and 2B are unjustified and should be excluded.

C. Remove Debris

Removal and disposal of on-site, crushed drums and contaminated soil pile(s) were included in the Removal of Debris remedial item. These had been included under the contaminated soil removal activity, however, it is more appropriate to consider them as part of removing site debris. A 50 percent swell factor was used for estimating the volume of crushed drums after loading into trucks for subsequent hauling to a final disposal site. A 15 percent swell factor was used for estimating the loading volume of soil from above-ground soil piles or excavated from the site for subsequent hauling to a final disposal site.

D. Demolish Building

Several items were added to the Demolish Buildings remedial activity. These included the following:

- Rough grading and site leveling up to 12 inches over existing grade in order to cover any protruding subsurface structures which have not been removed.

- On-site sump sampling and analysis and waste removal.

- Underground fuel oil tank/contents removal.

- Underground waste chemical/solvent tank contents removal.

- Closure of underground tunnel, filling in of building basements and vehicle weighing station pit. The tunnels and pit are potential reservoirs for off-site contamination.

These items were added to the Demolish Buildings remedial activity because it would be appropriate to undertake these items during the building demolition activity. Off-site, handling quantities of building demolition debris were calculated for the following scenarios: remove all debris from site for each soil excavation option under consideration (1A, 1C, 2A, 2C). These quantities are used in the subsequent cost analysis of remedial alternatives.

The site remains a safety hazard to persons entering or playing on the site and in abandoned buildings. Despite locked gates to the site, persons from the surrounding neighborhood are known to gain access to the site.

Initial remedial activities on the site have not removed all safety hazards from the site. Two partially full underground tanks, an underground 4-foot x 4-foot tunnel beneath the main building, and structurally damaged buildings present serious physical hazards to persons gaining access to the site. The identity of compounds in the remaining underground tanks have not been established as of this writing but nevertheless the tanks themselves are at least partly accessible from the ground. Both the tanks and the tunnel may contain oxygen deficient or toxic atmospheres that increase the likelihood of accidents. The major fire at the Wade site in 1978 damaged the structural integrity of several buildings on-site, increasing the likelihood of unexpected collapse. Finally, remaining piles of debris (wood and tires) are potential fire hazards.

E. Site Capping

The results of the Endangerment Assessment for the No Action remedial alternative, as previously discussed, indicated minimal risks as a result of on-site ground water contamination. On this basis, ground water interception, withdrawal and treatment remedial alternatives were eliminated from further consideration and detailed evaluation. The site capping options range from relatively impermeable clay capping to asphalt capping to relatively permeable topsoil/seeding capping. Clay capping is the most effective of these capping options at preventing infiltration of precipitation into the unsaturated soil zone (contaminated soil) and subsequent movement into the ground water.

Precipitation has and does infiltrate the unsaturated zone on-site and recharges the ground water, but its effect on ground water does not pose significant risks as previously discussed. Therefore, it is not necessary to prevent infiltration by installing a relatively impermeable clay cap or asphalt cap on the site.

Cost Analysis

Table 3 presents the site implementation cost [illegible] all the 12 remedial alternatives based on Metcalf & Eddy's cost estimates for Site Debris Removal, Building Demolition, Site Capping and Contaminated Soil removal.

Post Closure, Long Term Monitoring Plan

Once remedial activities have been completed on the Wade site, it is required that the site be further monitored for a period of 30 years to determine the effectiveness of the remedial activities.

The plan includes the following tasks:

1. Site Inspection:

The site inspection will include a visual inspection of surface conditions and the monitoring wells.

2. Installation of Upgradient Monitoring Wells:

Two upgradient monitoring well clusters will be [illegible] off-site locations in order to monitor the water quality of the ground water before it flows under this site.

3. Water Sampling:

The purpose of this sampling is to determine ground water quality before ground water enters the site and ground water quality as it leaves the site.

4. Laboratory Analysis:

Both water and soil samples will be analyzed for priority pollutants, cyanide and TOX based upon contaminants identified in previous site sampling. After five years of sample collections, the sampling protocol will be re-evaluated to determine if certain pollutants can be targeted such that there can be a reduction in the cost of laboratory analysis without any reduction in monitoring effectiveness.

TABLE 3 REMEDIAL ALTERNATIVE COST ANALYSIS

Remedial Alternative No.	Site Debris Removal ($)	Demolish Bldgs ($)	Site Capping ($)	Soil Excavation ($)	Total Implementation Cost ($)
1.	0	0	0	0	0
2.	529,029	268,745	0	0	797,774
3.	529,029	268,745	331,930	0	1,129,704
4.	529,029	268,745	75,620	0	873,394
5.	529,029	252,750	331,930	1,191,250	2,304,959
6.	529,029	252,750	75,620	1,191,250	2,048,649
7.	529,029	243,156	331,930	1,979,755	3,083,870
8.	529,029	243,156	75,620	1,979,755	2,827,560
9.	529,029	260,871	331,930	714,530	1,836,360
10.	529,029	260,871	75,620	714,530	1,580,050
11.	529,029	256,439	331,930	1,012,512	2,129,910
12.	529,029	256,439	75,620	1,012,512	1,873,600

Regional Resposibilities: Step 2) Notices of Intent to Delete--

A. SUPPORTING DOCUMENTATION FOR DELETION DOCKETS

- ~~Remedial Investigation Report(s)~~
- Feasibility Study Report(s)
- ~~Copies of all Proposed Plan Documents~~
- Copies of all RODs
- ~~Copies of Responsiveness Summaries to all previous public comment activities~~
- Community Relations Plan
- ~~Responsible Party Cleanup Protocol~~
- ~~Agreements between EPA and other Federal Agencies~~
- ~~EPA or state comments concerning the RP Protocol~~
- State and Federal orders, Consent Decrees, and other Court documents
- Task or progress reports verifying remedy implementation and proper performance
- Superfund Close Out Report or Remedial Action Report
- Description of post closure monitoring and O&M plans, including a description of State O&M responsibilities
- ~~Summary of Regional Counsel position or relevant correspondence on the deletion~~
- Bibliography of supporting documentation

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5. Replacement of Monitoring Wells:

The present three downgradient well clusters were originally constructed from galvanized pipe and it is anticipated that the wells will need to be replaced in 10 years. The two upgradient wells will be constructed with stainless steel pipe and it is anticipated that the wells will need to be replaced in 15 years. Monitoring well deterioration may result from corrosion of the pipe or screen, accumulation of silt in the well, or plugging of the screens.

6. Well Maintenance and Rehabilitation:

A program of well maintenance and rehabilitation will be implemented every five years to insure that the monitoring wells will provide representative samples and that the surface integrity of the well has not been compromised.

7. Topsoil Maintenance:

A program of topsoil maintenance will be implemented every two years to insure that the topsoil cap completely covers the site. Periodically it may be necessary to fill in erosion channels, to add topsoil to areas where the vegetation has become sparse.

8. Mowing of Grass:

Once the topsoil cap has been constructed and it has been seeded and sodded it will be necessary to mow the new grass during the growing season. The task would be performed on a yearly basis probably during the summer months and will become a integral part of the site maintenance.

Community Relations

Public meetings were held in October 1982, July 1983, and September 1983 to discuss the remedial work performed by CECOS and the studies conducted by Roy F. Weston. Various types of media (e.g., newspaper ads, fact sheets, radio) were utilized to notify the public of these meetings. Representatives of U.S. EPA, State, local governments and the community were all well represented. Copies of reports and data were provided, with a 20 day comment period.

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A public meeting to discuss the Wade site feasibility study was held at Chester City Hall on Wednesday, June 13, 1984. The meeting was conducted by the PA DER and EPA. Public officials and citizens were very interested in the future use of the site as well as the timeframe for completion of the cleanup. There were no written comments received.

Recommended Alternative

Section 300.68(j) of the National Contingency Plan (NCP) [47 FR 31180, July 16, 1982] states that the appropriate extent of remedy shall be determined by the lead agency's selection of the remedial alternative which the agency determines is cost-effective (i.e., the lowest cost alternative that is technologically feasible and reliable) and which effectively mitigates and minimizes damage to and provides adequate protection of public health, welfare, and the environment. Based on our evaluation of the cost-effectiveness of each of the 12 proposed alternatives, the comments received from the public, information from the Endangerment Assessment, and information from DER and Weston, we recommend that alternative 10 be implemented. This alternative includes: the removal, decontamination, and disposal of tankers, tires and debris; destruction of buildings; soil removal; leveling, filling, and grading the site, and covering with a seeded topsoil cap.

The recommended alternative is the least cost alternative that is technically feasible and reliable, that meets the requirements of the NCP and provides for future protection of public health, welfare, and the environment. It also complies with RCRA by calling for offsite disposal of contaminated soil at a RCRA approved lined facility, and the level of cleanup was determined in a manner consistent with the RCRA methodology. In comparison with the other alternatives, alternative 10 has the following:

1. Fewer monitoring requirements as a result of the topsoil cap;
2. Requires less time to implement of all the soil excavation options (lowest quantity of contaminated soil requiring excavation);
3. Easiest to install of the soil options due to the smaller soil excavation quantities;
4. Uses relatively proven technology, i.e., contaminant source removal with proper disposal;
5. More durability with a topsoil cap than asphalt due to a longer period of time that the level of effectiveness can be maintained;
6. More effective than the no action remedial alternative and non source removal alternatives;
7. If no action was chosen, we would still have the problem of a release occurring which would ultimately end in a ground water investigation;

8. The exposure rate of most concern for the Wade Site from the standpoint of public health is inhalation/ingestion of contaminated surface soils. Further removal of soil beneath the 5 foot level (Alternative 12) would have no impact on this route of exposure, and;

9. Removal of contaminated soil down to 5 feet allows for protection of human health and environment in the future.

The estimated costs for the recommended action are:

Remedial Action	Estimated Cost
Site Debris Removal	$ 529,029
Demolish Buildings	$ 260,871
Site Capping	$ 75,620
Soil Excavation	$ 714,530
Total Implementation Cost =	$1,580,050
Operation & Maintenance	$ 320,000
Total =	$1,900,050

Project Schedule

- Approve Record of Decision — July 1984
- Award Contract — September 1984
- Start Construction — September 1984

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WESTON

APPENDIX B

CONTRACT DOCUMENTS

AGREEMENT BY AND BETWEEN
THE COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

AND

ROLLINS ENVIRONMENTAL SERVICES (FS) Inc.

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AGREEMENT BY AND BETWEEN
THE COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
AND
ROLLINS ENVIRONMENTAL SERVICES (FS) INC.

DEC 2 2 1986

This Agreement is entered into this _____ day of _____, 1986 by and between the Commonwealth of Pennsylvania, Department of Environmental Resources and Rollins Environmental Services (FS) Inc., a corporation registered in Pennsylvania and duly organized under the laws of Delaware and having its usual place of business at P. O. Box 92, Chadds Ford, Pennsylvania 19317. This Agreement is for the cleanup of hazardous and non-hazardous materials presently located on property known as the "Wade Site" located on Number One Flower Street, Chester, Pennsylvania.

ARTICLE 1

DEFINITIONS

In this Agreement and attachments, unless the context clearly indicates otherwise, the following words shall have the following meanings.

1.	Commonwealth:	The Commonwealth of Pennsylvania.
2.	Department:	The Commonwealth of Pennsylvania Department of Environmental Resources ("DER").
3.	Contractor:	Rollins Environmental Services (FS) Inc., including, but not limited to, its subcontractors, employees, agents, officers, and managers.
4.	Site:	Number One Flower Street, Chester, Pennsylvania, as more fully described in Site Property Description attached hereto as Attachment 2 and made a part hereof.
5.	Debris:	The above-grade piles of drums, rubber scrap, tires, rubble, metal scrap, and other solid waste present on the Site.
6.	Project:	To demolish all Site structures; remove and dispose of all hazardous and non-hazardous material, debris, machinery, tankers, crushed drums and their contents, tires, shredded rubber; grade and contour the Site with imported fill; cover Site with topsoil mixture; and fertilize, mulch, seed and establish final vegetative cover over the Site, all as more fully described in Article 3.
7.	Request For Proposals:	The Department's request for formal written qualifications and proposals dated July, 1986, which is incorporated herein by reference ("RFP").

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8.	Proposal:	The Contractor's proposal for undertaking the Project, dated August 18, 1986 which is incorporated herein by reference.
9.	Notice to Proceed:	A written communication from the Department directing the Contractor to begin work on the Project.
10.	Records:	Written records of the services performed by the Contractor for work on the Project.
11.	Cleanup Director:	The person formally named by the Department in the Notice to Proceed who is on the site full time and has responsibility for the Site and for monitoring the Contractor's performance under this Agreement. The Cleanup Director may be changed during the course of this Project upon written notice by the Department to the Contractor.
12.	Supervisor:	The person named by the Contractor and approved by the Department who shall have the authority to act on behalf of the Contractor and to commit the necessary personnel, equipment, and supplies to carry out the Scope of Work. The Supervisor may be changed during the course of the Project upon written notice and approval by the Department to the Contractor.
13.	Site Representative:	The person or persons formally named by the Department in the Notice to Proceed represents the Cleanup Director in his specific decisions on behalf of the Department. The Site Representative may be changed during the course of this Project upon written notice by the Department to the Contractor. The Site Representative shall report to the contracting officer.
14.	Contracting Officer:	The person or persons formally named by the Department in the Notice to Proceed who is authorized by the Department to make decisions affecting the Scope of Work defined in the Department's Request for Proposal including change orders and approval of invoices for payment.
15.	Scope of Work:	The statement of services presented in Article 3 of this Agreement to be performed by the Contractor and for which the Contractor shall be paid on a fixed price basis.
16.	Price:	The fixed price to be paid to the Contractor for its performance in completion of the Scope of Work.

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ARTICLE 2

CONTRACTOR RESPONSIBILITY, CONTRACT DOCUMENTS AND CONTRACT PERIOD

2.1 Contractor Responsibilities

The Contractor agrees to take all necessary measures to carry out the Project in accordance with the Proposal and the Scope of Work set forth in Article 3 of this contract in a timely manner upon receipt of the Notice to Proceed from the Department.

2.2 Contract Documents

The following documents are attached hereto and made part of this Agreement. In the event of any inconsistency or conflict between the terms and conditions of this contract, unless otherwise specified in the contract agreement, the following order of priority of documents is established to interpret such terms and conditions:

1. Agreement by and between the Commonwealth of Pennsylvania, Department of Environmental Resources and Rollins Environmental Services (FS) Inc., pages 1 - 15.
2. Federal Requirements. Attachment 1.
3. Site Property Description. Attachment 2.
4. General Conditions. Attachment 3.
5. Record of Decision (ROD) dated August 30, 1984, relating to Description of Selected Remedy. Attachment 4.
6. DER RFP to Perform Clean-up at Wade Site, dated July, 1986. Attachment 5.
7. Contractor Proposal for Wade Site Clean-up, dated August 18, 1986, and modified Proposal dated September 19, 1986. Attachment 6.
8. Nondiscrimination Clause. Attachment 7.
9. Contractor Integrity Provisions for Commonwealth Contracts. Attachment 8.

ARTICLE 3

STATEMENT OF WORK

3.1. On-Site

- Mobilization and Site Preparation
- Dismantling of Rubber Storage Silos
- Building and Structure Demolition and Materials Disposal
- Backfill and Rough Grading
- Final Grading and Placement of Site Management Controls
- Demobilization and Project Close-out

3.2. Off-Site

- Removal and Disposal of Tankers, Scrap Wood, and Scrap Metal

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- Removal and Disposal of Crushed Drums, Tires and Shredded Rubber, and Staged Contaminated Soils

- Removal and Disposal of Contaminated Soil

- Demolition and Debris Disposal (other than masonry and concrete pads)

3.3. The parties agree that the Department's Request for Proposals defines the Scope of Work and the Proposal submitted by the Contractor in response thereto defines the Contractor's performance and both are incorporated herein.

ARTICLE 4

FACILITIES, EQUIPMENT, PERSONNEL, AND ACCESS

The Contractor shall provide the facilities, equipment, supplies, and personnel listed in the Proposal, and such other facilities, equipment, supplies and personnel as are necessary to complete the Scope of Work.

ARTICLE 5

GENERAL SECURITY

Upon its occupation of the Site, the Contractor shall secure the Site to protect it from vandalism and unauthorized entry by restricting access to and posting guards or otherwise providing security at the Site 24 hours every day, including weekends. The Contractor shall continue these measures during the course of the Project.

The Contractor shall take all proper precautions to protect persons from injury, unnecessary interference or inconvenience, and to protect the Site and neighboring properties from damage resulting from Contractor's activity. Contractor shall contact all utility companies to verify the locations of all utilities both on-site and in the vicinity of the Site before initiating work on the Project, to prevent damage to any existing utilities.

Before the Contractor initiates work on the Site, it will take whatever actions are necessary so that vehicles have unobstructed access to and from the Site from the main gate in the fence around the Site and shall maintain this access throughout the course of the Project. The Contractor shall keep this gate and the other two gates unlocked during the time work is being done on the Site and locked at all other times during the course of the Project.

The Contractor shall make its own arrangements with the appropriate utility companies to provide for power, lighting, telephone, water, refuse, and sanitary waste disposal at the Site.

ARTICLE 6

SAFETY AND EMERGENCY RESPONSE PROCEDURES

In all instances the Contractor shall be liable for any failure to exercise due care in the safe and proper performance of its activities on the Site. The Contractor shall perform its work in accordance with the technical approach and Safety Plan set forth in the

Proposal. In the event that an emergency situation arises at the Site, the Contractor shall act in accordance with the Contingency Plan contained in the Proposal.

ARTICLE 7

SITE MANAGEMENT

7.1 The Contractor shall carry out the Project in an expeditious manner and shall provide the necessary personnel to adequately supervise, monitor, and complete the Project.

7.2 The Contractor shall name a Supervisor for the Project. The Supervisor shall have the authority to act on behalf of the Contractor and commit all necessary facilities, personnel, equipment, and supplies to carry out the Scope of Work.

7.3 The Contractor shall name an Alternate Supervisor, who shall perform the duties of the Supervisor at any time the Supervisor is absent from the Site.

7.4 The Supervisor shall not be absent from the Site during working hours without prior approval by the Site Representative.

7.5 The Contractor shall employ only persons with the proper competence and experience to safely and effectively carry out the Scope of Work. If the Site Representative notifies the Contractor that the Department has determined that any person working on the Project is, in the opinion of the Department, incompetent, disorderly, or otherwise unsatisfactory, the Contractor shall discharge such person from the Project and shall not re-employ such person on the Project without receiving the prior approval of the Site Representative.

7.6 The Department shall designate a Site Representative who shall be authorized to sign daily Records for the Department and who shall be available during work hours to expedite DER approval of aspects of the Scope of Work as provided in Article 3.

7.7 The Supervisor's primary responsibilities are the management of the Contractor's activities on the Site and implementation of the Site Safety Plan set forth in the Proposal. The Site Representative's primary responsibility is to act on behalf of the Department in monitoring the activities of the Contractor, in interacting and coordinating with persons and agencies having interest in or authority over the Site, and in informing public officials, the press, and other interested persons of Site activities.

7.8 The Contractor will be permitted to work between the hours of 7:00 AM and 5:00 PM, Monday through Friday. No work shall be performed between the hours of 5:00 PM and 7:00 AM. Deviations from this work schedule require approvals of the Site Representative. The Contractor shall obtain approval of the Cleanup Director before disseminating information to the public concerning any Site activities.

ARTICLE 8

INSPECTIONS

8.1. <u>On-Site:</u>

The Contractor shall allow Department personnel and other persons designated by the Department immediate access to the Site, to collect samples of wastes on the Site, to observe and examine all operations and test procedures conducted by the contractor, or for

other purposes consistent with this Agreement. In performing such functions, Department personnel and agents shall avoid interference with the performance of work by the Contractor.

The presence of Department personnel shall not relieve the Contractor in any way from its obligations or liability under this Agreement. If Department personnel overlook or misjudge the quality, type, or manner of any work performed by the Contractor and if the Department pays for that work, such Department actions shall not bar subsequent rejection of that work by the Department at any time prior to the final payment of compensation to the Contractor by the Commonwealth. The Department shall advise the Contractor of any errors or omissions discovered by the Department as soon as possible, and the Contractor shall correct such work in a manner satisfactory to the Department.

The Contractor shall cooperate fully with any Project evaluations performed by the Department or its representatives during the course of or subsequent to the completion of the Project for a reasonable period of time.

ARTICLE 9

MODIFICATIONS

This Contract may only be modified by written agreement of the parties hereto. Neither the Cleanup Director nor Site Representative is authorized to modify any provision of this Agreement, or in any way to relieve the Contractor from its obligations under this agreement, except for Site decisions referred in this Agreement which this Agreement has authorized the Site Representative or the Cleanup Director to make.

ARTICLE 10

RECORD KEEPING AND REPORTING

The Contractor shall maintain complete detailed, and accurate Records of the services performed by it under this Agreement, in accordance with Section 12.4 of the Request for Proposals.

The Department may audit, examine, and inspect such Records during normal business hours. The Contractor shall maintain and make these Records available to the Department upon its request for a minimum of three (3) years and a maximum of ten (10) years following the issuance of a certificate of completion.

ARTICLE 11

PERIOD OF PERFORMANCE

The Contractor shall begin work on the Project within ten (10) working days of its receipt of the Notice to Proceed issued by the Department and shall complete the Project in accordance with the Project Schedules to be worked out and mutually agreed to by the Contractor and DER in accordance with Section 13.8 of the Request for Proposals. The completion date of this Project shall not be later than seven (7) months after receipt of Notice to Proceed unless this period of performance is extended by a formally executed contract amendment.

The Contractor and the Department agree that the time schedule for completing the Project is reasonable considering the scope of the Project and the normal climatic conditions at the Site during the portion of the year when the Project is scheduled to occur.

This Contract shall terminate if the Department fails to issue a Notice to Proceed to the Contractor within 120 calendar days of the signing of this Agreement unless the parties agree in writing to an extension of the time period. The Contractor agrees that if the Department is prevented from proceeding with the Project or from authorizing the Contractor to begin work on the Project for any reason, the Contractor shall not be entitled to claim damages caused by this delay.

The Department may modify the schedule in accordance with the procedures set forth in Article 9 hereof due to acts of God, causes beyond the control of the Contractor or unforeseen delays incurred due to modifications of the scope of work, public meetings, obtaining legal access to the work site as required by Article 4 hereof, or reviews, policies or procedures of the Department.

If approved delays occur, the contractor will be given equivalent time extensions to this Agreement without penalties.

ARTICLE 12

CONTRACT PRICE

The Department shall pay the Contractor a total Contract Price not to exceed $2,966,287 for the satisfactory completion of all Phases of this Project in accordance with the contract documents. The phase sequence is the suggested order of work. The actual sequence will be that agreed to by the Site Representative and the Supervisor and noted in the minutes of construction meetings or by memorandum from the Supervisor to the Cleanup Director and the Site Representative or vice versa. These adjustments will not constitute a contract change. If a suggested change will substantially change the terms of the Contract only the Contracting Officer can authorize such a change. The Project consists of seven (7) Phases which are priced on a lump sum basis for each individual Phase.

The Contractor proposes three (3) project disposal options to DER, as follows, and as more particularly set forth in its proposal:

A. Disposal Facility Location

Rollins Environmental Services (LA) Inc.
Box 73877
Baton Rouge, LA 70897
(504) 778-1234

Phase	Work To Be Prepared	RFP Section	Fixed Price
1	Mobilization	3	97,207
2	Tankers	4	116,059
3	Surface Soil & Debris	5	669,960
4	Excavation	6	1,014,374
5	Demolition & Rough Grade	7 & 8	395,217
6	Final Grade	9	193,765
7	Demobilization	10	5,027
	Total Contract Price:		2,491,609

Off-Site:

The Contractor must:

A. Identify name and location of Docking Facility that will be used for Barge Loading.

B. Obtain DER approval for use of this Docking Facility.

C. Secure necessary Permits.

In order to observe operations, DER must be given access to both the Docking Facility for Barge Loading, as well as the Docking Facility in Baton Rouge, LA which will be used for Barge Receiving.

B. Disposal Facility Location

Fondessy Enterprises Inc.
876 Otter Creek Rd., P.O. Box 7571
Oregon, OH 43616
(419) 726-1521

Phase	Work To Be Prepared	RFP Section	Fixed Price
1	Mobilization	3	100,659
2	Tankers	4	116,973
3	Surface Soil & Debris	5	743,857
4	Excavation	6	1,150,041
5	Demolition & Rough Grade	7 & 8	399,627
6	Final Grade	9	195,281
7	Demobilization	10	5,066
	Total Contract Price:		2,711,504

C. Disposal Facility Location

GSX Service of South Carolina, Inc.
Route 1, P.O. Box 255
Pinewood, SC 29125
(803) 452-5003

Phase	Work To Be Prepared	RFP Section	Fixed Price
1	Mobilization	3	104,804
2	Tankers	4	119,537
3	Surface Soil & Debris	5	826,719
4	Excavation	6	1,300,362
5	Demolition & Rough Grade	7 & 8	410,116
6	Final Grade	9	199,572
7	Demobilization	10	5,177
	Total Contract Price:		2,966,287

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The parties agree that the Contractor currently can only make available Option C in performance of its obligations under this Agreement. DER and the Contractor agree that Option C is the option to be employed by the Contractor; provided however, prior to the start of Phase 4 of Option C, the Contractor shall notify the Contracting Officer in writing whether or not Options A or B are then available for Contractor's use. If, prior to the start of Phase 4, Contractor notifies the Contracting Officer that either or both of Options A and/or B are available for Contractor's use in performance of its obligations hereunder, the Contracting Officer shall have the right to direct the Contractor to use any of the available listed options instead of Option C. If the Contracting Officer so directs the Contractor to use Option A or B prior to the start of Phase 4, the fixed prices for such option listed above shall apply and the difference between the amount paid to the Contractor for completion of (1) Phases 1 through 3 under Option C and (2) Phases 1 through 3 under the alternate option directed to be used by the Contracting Officer, shall be deducted from DER's payment to Contractor for work performed under Phase 4 of the project.

ARTICLE 13

METHOD OF PAYMENT

The Contractor shall submit invoices to the Department for each individual Phase of work, in accordance with Article 12, as each respective Phase is completed in accordance with the Contract Documents and accepted by the DER Site Representative.

Invoices shall be mailed by the contractor to the following address, with a copy provided to the Site Representative.

Donald M. Becker, Contracting Officer
Bureau of Waste Management
Department of Environmental Resources
Commonwealth of Pennsylvania
7th Floor Fulton Building
P. O. Box 2063
Harrisburg, PA 17120

The Department shall make payment of each invoice within 30 days of receipt of the invoice unless there is reason to question the amount of the invoice, in which case the Department shall promptly notify the Contractor. In such case the undisputed amount shall be approved for payment.

An invoice shall include but not be limited to:

1. A narrative description of the work performed on each Phase of the Project.

2. Signed acceptance by the Site Representative that the invoiced work has been satisfactorily completed.

3. Documentation to demonstrate payment of Subcontractor.

ARTICLE 14

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SUBCONTRACTING AND ASSIGNMENT

The Contractor shall obtain the written authorization of the Department before

subcontracting or assigning to any other person, governmental agency, or business organization other than those specifically identified in the Contractor's Proposal any portion of the Project, except for purchase of supplies or standard commercial or maintenance services.

The Contractor shall require any subcontractor, agent, or assignee retained by it to comply with the requirements of this Agreement and shall be as fully responsible and liable for the acts and omissions of its subcontractors, agents, or assignees, and of persons directly or indirectly employed by them, to the same extent as it is for the acts and omissions of its own personnel and employees. The Contractor shall require any foreign corporation engaged by it to undertake any portion of the Project to comply with all applicable Pennsylvania laws. In no event shall any such subcontractors, agents, or assignees be considered parties to this Agreement, except as specifically provided herein.

ARTICLE 15

INDEMNIFICATION

Notwithstanding any provision in any of the other contract documents, the Contractor shall be solely responsible for the work under the contract and shall keep, save, indemnify and hold harmless the Commonwealth and its employees from and against any and all claims, demands, suits, actions, recoveries, judgments, and costs and expenses in connection therewith on account of the loss of life, property, or injury or damage to the person, body, or property of any person, agency, corporation, or government entity, which shall arise from or result from the work and/or materials supplied by or arising out of the performance of this contract. The Contractor's liability under this contract shall continue after the termination of the contract with respect to any liability, loss, expense, or damage resulting from acts occurring prior to termination. This indemnification obligation is not limited by, but is in addition to the insurance obligation contained in this agreement. The Contractor shall not be responsible for the negligence of Commonwealth's employees for activities or actions that are not directly related to the work performed under this contract.

ARTICLE 16

CONFLICT OF INTEREST

The Contractor shall warrant that, to the best of the Contractor's knowledge and belief, there are no relevant facts or circumstances which could give rise to an organizational conflict of interest, as defined in 41 CFR 15-1.5401, or that the Contractor has disclosed all such relevant information.

The Contractor shall agree that if an actual or potential organizational conflict of interest is discovered after award, the Contractor will make full disclosure in writing to the DER. This disclosure shall include a description of actions which the Contractor has taken or proposes to take, after consultation with DER to avoid, mitigate, or neutralize the actual or potential conflict.

The DER may terminate this Contract for convenience, in whole or in part, if it deems such termination necessary to avoid an organizational conflict of interest. If the Contractor was aware of a potential organizational conflict of interest prior to award or discovered an actual or potential conflict after award and did not disclose or misrepresented relevant information to the DER, the DER may terminate the contract for default, debar the Contractor from DER contracting, or pursue such other remedies as may be permitted by law or this contract.

The Contractor further shall agree to insert in any subcontract or consultant agreement hereunder the provisions which shall conform substantially to the language of this clause, including this Article.

In addition to the requirements of the contract article entitled "Conflicts of Interest", the following provisions with regard to individual personnel performing under this contract shall apply for the duration of the contract:

The Contractor shall agree to notify the DER of any actual, apparent, or potential conflict of interest with regard to any individual. Notification of any conflict of interest shall include both organizational conflicts of interest and personal conflicts of interest (which are defined as the same types of relationships as an organizational conflict of interest, but applicable to an individual).

In the event that a personal conflict of interest appears to exist, the individual who is affected shall be disqualified from taking part in any way in the performance of the assigned work which created the conflict of interest situation.

ARTICLE 17

DEMOBILIZATION AND PROJECT COMPLETION

The Contractor must obtain written approval from the Site Representative for removal of supplies and equipment from the Site prior to completion of the Scope of Work, and this approval shall not be unreasonably withheld. The Contractor must obtain written certification from the Site Representative that the Scope of Work has been completed before it initiates complete demobilization of the Site.

ARTICLE 18

TERMINATION

Notwithstanding any provisions in any of the contract documents the Department may terminate this Agreement at any time after serving upon the Contractor a written notice of its intention to terminate this Agreement stating the ground or grounds upon which this intention is based. Unless the ground or grounds for termination involve a threat to public health or safety caused or contributed to by the Contractor, the Department will allow the Contractor at least ten (10) days in which to propose and reach agreement upon an alternative arrangement to terminating the Project satisfactory to the Department. If such an agreement cannot be reached by the parties within ten days, or such longer time as the Department may provide, this Contract shall terminate.

If the Department states in the notice of termination that the ground or grounds for termination involve a threat to public health or safety, this Agreement shall terminate immediately upon the Contractor's receipt of the written notice of intention to terminate.

The Contractor shall be paid according to the provisions of Article 12 for all work properly performed under this Agreement prior to termination.

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ARTICLE 19

INSURANCE

The Contractor shall procure and maintain during the life of this Agreement adequate insurance of the types specified below, in an amount equal to or exceeding any minimum amount specified below, in a form that will protect the Contractor and the Commonwealth from all claims and liability for injury to persons and for damage to property occurring during the course of the Project and naming the Commonwealth as an additional insured:

19.1. Workmen's Compensation and Employer's Liability Insurance in the amounts required by law to cover all the Contractor's and its Subcontractors' personnel employed on the Project. In the event that any of the work is sublet, the Contractor shall require the subcontractor to provide Workmen's Compensation and Employer's Liability Insurance for all its employees.

19.2. Comprehensive General Liability Insurance for bodily injury and property damage in an amount not less than $1,000,000 per occurrence. This insurance shall provide the following coverages and endorsements:

a. Premises and operations hazards;

b. Explosion, collapses, and underground hazards;

c. Products and operations hazards;

d. Contractual insurance; and

e. Broad form property damage.

19.3. Automobile Liability Insurance covering the use of all vehicles used by the Contractor, whether owned, hired, or nonowned. This insurance shall be in the amount of $1,000,000 per occurrence for combined bodily injury and property damage liability.

19.4. Excess Liability Insurance covering bodily injury and property damage in excess of the coverage provided by its Comprehensive General and Automobile Liability Insurance in an amount of $1,000,000 in the aggregate.

The Contractor shall obtain all insurance from companies licensed to write such insurance in the Commonwealth. All policies shall be written so that the Department will be notified in writing of their cancellation or restrictive amendment at least thirty (30) days prior to the effective date of such cancellation or amendment.

Certificates from the Contractor's insurance carriers stating the coverage provided, the limits of liability, and expiration dates shall be submitted to the Department before work on the Project is begun. Insurance renewal certificates must be furnished to the Department by the Contractor at least twenty (20) days prior to the expiration date of any of the initial insurance.

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ARTICLE 20

BONDING

None of the insurance required by this Agreement shall in any way relieve the Contractor of or diminish any of its obligations and liabilities under this Agreement.

20.1. The Contractor, within ten (10) days of the "Notice to Proceed" commencing the term of this Contract, shall furnish the Department with the following bonds:

a. A performance bond in the amount of 100 percent of the Contract price conditioned upon the Contractor's satisfactory performance of all services, covenants, terms and conditions of this Contract and further conditioned upon the completed work at the Site remaining free from all defects, due to faulty materials, equipment or workmanship, and upon Contractor's making whatever adjustments or corrections are necessary to cure any such defects for one (1) year following the completion of this project.

b. A labor and materials payment bond in the amount of 100 percent of the contract price, conditioned upon the Contractor and its subcontractors making prompt payment to all persons supplying labor, materials and transport and disposal services in the prosecution of the services required hereunder.

20.2. Bonds required under this Section shall be executed by the Contractor and a corporate bonding company which is:

a. Licensed to transact such business in the Commonwealth; and

b. Certified by the Department as an acceptable surety on Bonds.

Forthwith upon notice, the Contractor shall give the Department written notice of the following: the initiation of bankruptcy proceedings involving the surety; the loss of a surety's right to do business in the Commonwealth; or the termination of the surety's certificate of authority as an acceptable surety on bonds. In such event, the Department reserves the right to require the Contractor to substitute another bond or bonds in such form and sum and signed by such other surety or sureties it deems necessary.

20.3. None of the bond requirements of this Agreement shall in any way relieve the Contractor of or diminish any of its obligations and liabilities under this Agreement.

ARTICLE 21

REPORT OF CONTRIBUTIONS

Contractor will comply with Section 1605.1(a) of the Pennsylvania Election Code, which provides as follows:

(a) Any business entity, including but not limited to a corporation, company, association, partnership, or sole proprietorship, which has been awarded nonbid contracts from the Commonwealth and its political subdivisions during the

preceding calendar year, shall report by February 15 to the Secretary of the Commonwealth an itemized list of all political contributions known to the business entity by virtue of the knowledge possessed by every officer, director, associate, partner, limited partner or individual owner that has been made by (1) any officer, director, associate partner, limited partner, individual owner, or members of their immediate family, and (2) any employee or members of his immediate family whose political contribution exceeded one thousand dollars ($1,000) during the preceding year. For the purpose of this subsection, "immediate family" means a person's spouse and any unemancipated child.

ARTICLE 22

DISPUTE RESOLUTION

Any dispute which arises under this Contract shall in the first instance be the subject of informal negotiations between the Site Representative and the Supervisor. If the Site Representative and the Supervisor cannot resolve the dispute within seven (7) days from the time the dispute arises it shall be presented to the Bureau of Waste Management's representative for appropriate resolution upon written notice by the Contractor. The period for dispute negotiations may be extended by mutual agreement of the Bureau of Waste Management and the Contractor. The decision of the Department shall be final subject to the General Conditions (Attachment 3) entitled Disputes.

ARTICLE 23

HEADINGS

Headings herein are for reference purposes only and are not intended to be used in the interpretation of the terms and conditions of this Agreement.

ARTICLE 24

SIGNATURES

IN WITNESS WHEREOF, the parties hereto have set their hands and seals the day and year first written, intending to be legally bound hereby.

ATTEST: (CORPORATE SEAL)

Secretary/Treasurer
(Cross out one)

ROLLINS ENVIRONMENTAL SERVICES (ES) INC.

BY: Charles Smith

xPresident/Vice-President
(Cross out one)

Fed. I.D. # 51-0274818

ATTEST:

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

Deputy Secretary for Administration

Approved as to legality and form:

Office of Attorney General

APPROVED:

Secretary of Budget and Administration

Chief/Assistant Counsel, DER

I hereby certify that funds in the amount of _____ are available under Appropriation _____

Comptroller

001·035·306·86·3·3300·33139·310 = $2,014,527
001·035·753·86·7·3300·33137·310 = 451,766
ME 86311 $2,466,293

000641

December 23, 1986

717-737-2071

Rollins Environmental Services (FS), Inc.
Attention: Charles Swinburn, Vice President
Chadds Ford Business Campus
P. O. Box 92
Chadds Ford, PA 19317

Dear Mr. Swinburn:

I am pleased to enclose two executed copies of the contract between the Commonwealth of Pennsylvania, Department of Environmental Resources, and Rollins Environmental Services (FS), Inc., for the cleanup of hazardous and non-hazardous materials presently located on property known as the "Wade Site" located at Number One Flower Street, Chester, Pennsylvania. Please accept this letter as a Notice to Proceed, as called for in the December 23, 1986 contract. Implementation of the terms and conditions of the contract must begin within ten (10) working days from receipt of this letter.

It is important that all project activities be well coordinated to ensure smooth implementation of construction. Therefore, Rollins should hold a project "start-up" meeting, as soon as possible, with DER and Weston Project Management staff to establish an initial working relationship and discuss various project management issues. Arrangements for this meeting should be made by contacting Robert Allen, DER's Site Representative, located at Ridley Creek's District Office, Ridley Creek State Park, Sycamore Mills Road, Media, Pennsylvania 19063, Telephone 215-565-1687, and John Claypoole, Cleanup Director with Roy F. Weston, Inc., located at Weston Way, West Chester, Pennsylvania 19380, Telephone 215-692-3030.

All project invoices are to be sent to Donald M. Becker, Contracting Officer, P. O. Box 2063, Harrisburg, Pennsylvania 17120, Telephone 717-783-7816, and must contain, as a minimum, the information contained on the attached mock invoice. It is important to note that the language used in the contract to identify and describe Tasks and Work Products must also be used in completing the invoice. This should help to avoid delays in processing the invoices. As a final note, the personnel changes proposed in your December 9, 1986 letter to Mr. Donald Becker of my staff are acceptable as proposed.

We are looking forward to working closely with your staff to ensure the successful and timely completion of this project. Should you or your project staff need further clarification of any issues associated with this contract, please contact Mr. Donald Becker at 717-783-7816.

Sincerely,

James P. Snyder
Assistant Director
Bureau of Waste Management

Enclosure

000642

July 27, 1987

717-737-9871

Richard A. Jaffe, Director
Governmental Services and Contract Administration
Rollins Environmental Services (FS), Inc.
One Rollins Plaza
P.O. Box 2349
Wilmington, DE 19899

Dear Mr. Jaffe:

Enclosed is a fully executed copy of Amendment No. 1 to Contract ME 86311 between Rollins Environmental Services (FS), Inc. and the Department of Environmental Resources. This amendment will allow for a time extension of the existing contract until December 31, 1987.

Since the Wade site is now fully cleaned up, the entirety of all out-of-scope work is known. It is now time to meet and discuss these remaining issues. My office will be contacting you shortly to arrange for such a meeting. Prior to our meeting, please submit all final cost estimates for all work done outside of the original contract to me for review. If you have any questions, please contact me at 717-737-9871.

Sincerely,

Kim Dekona
Administrative Assistant
Bureau of Waste Management

Enclosure
cc: Ms. Dekona
Mr. Snyder
Ms. Miller
Mr. Becker
Mr. Pieper
Mr. Allen
Mr. Johnson
Mr. Claypool
File
Chron. File

KDises

000643

AMENDMENT NO. 1

TO AGREEMENT BETWEEN

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES

AND

ROLLINS ENVIRONMENTAL SERVICES, (FS) INC.

THIS AGREEMENT, made this 16 day of July, 1987, by and between the Pennsylvania Department of Environmental Resources, hereinafter referred to as "DEPARTMENT" and Rollins Environmental Services (FS) Inc., P.O. Box 92, Chadds Ford, Pennsylvania 19317, hereinafter referred to as "CONTRACTOR."

WHEREAS, the DEPARTMENT entered into an agreement with the CONTRACTOR on December 22, 1986 to provide cleanup of hazardous and non-hazardous materials presently located on property known as the "Wade Site" located on Number One Flower Street, Chester, Pennsylvania.

WHEREAS, the cleanup services to be provided pursuant to the terms and conditions of the aforesaid Agreement shall be required beyond the termination date specified therein.

WHEREAS, this time extension is required due to factors beyond the control of the DEPARTMENT and the CONTRACTOR.

NOW, THEREFORE, the parties hereto, intending to be legally bound hereby, agree as follows:

1. The termination date of the Agreement is extended from July 24, 1987 to December 31, 1987.

2. No additional funds shall be required for this time extension.

3. All other terms and conditions of the Agreement which are not modified by this Amendment remain in full force and effect.

000644

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year above written.

ATTEST:

Jas. M. Ewing
Secretary/~~Treasurer~~
(Cross out one)

ROLLINS ENVIRONMENTAL SERVICES, (FS) INC.

Charles Smolen
~~President~~/Vice-President
(Cross out one)

Federal I.D. No. 51-022-8924

ATTEST:

Peggy L. Hillman

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

BY Mark McMillan

Title

APPROVED AS TO LEGALITY AND FORM: 7/31 3 Cell 9

John F Hall
Office of Attorney General

John Wm Cassell
Chief/Assistant Counsel
Department of Environmental Resources

APPROVED:

BY: Mary L. DeFrank
Secretary of Budget and Administration

I hereby certify that funds in the amount of -0-
are available under Appropriation
001-035-306-86-3-3300-33139-310
001-035-759-86-7-3300-33139-310

Comptroller

000645

AMENDMENT NO. 2
TO AGREEMENT BETWEEN
PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES
AND
ROLLINS ENVIRONMENTAL SERVICES (FS), INC.

THIS AGREEMENT, made this _____ day of _____, 1987, by and between the Pennsylvania Department of Environmental Resources hereinafter referred to as "DEPARTMENT" and Rollins Environmental Services (FS), Inc., P.O. Box 92, Chadds Ford, Pennsylvania 19317, hereinafter referred to as "CONTRACTOR."

WHEREAS, the DEPARTMENT entered into an agreement with the CONTRACTOR on December 22, 1986, to provide clean up of hazardous and non-hazardous materials located on property known as the "Wade Site" located on Number One Flower Street, Chester, Pennsylvania.

WHEREAS, the DEPARTMENT and the CONTRACTOR agreed to and executed Amendment No. 1 to the original agreement whereby the termination date of the said agreement was extended from July 24, 1987, to December 31, 1987, and

WHEREAS, the original agreement provided for cleanup of hazardous and non-hazardous materials, and

WHEREAS, it is necessary for the CONTRACTOR to provide additional cleanup activities not specified in the scope of work of the original agreement, due to unforseen site conditions and additional hazardous and non-hazardous materials found on the Wade Site, and

WHEREAS, the DEPARTMENT and the CONTRACTOR have agreed upon a price to be paid to CONTRACTOR to provide these additional professional services.

NOW, THEREFORE, the parties hereto, intending to be legally bound hereby, agree and covenant as follows:

1. CONTRACTOR agrees to perform the following additional services related to materials cleanup at the Wade Site:

-	Removal and disposal of PCB capacitors	$ 4,065.43
-	Sorting scrap from Grid 41	$ 15,785.52
-	Tanker cutting and removal of residual solids	$ 5,908.83
-	PCB analyses	$ 529.38
-	Disposal of gas cylinders	$ 1,776.24
-	Closure of Underground Storage Tank	$ 55,025.81
-	Removal and disposal of industrial sludge	$ 10,136.01

2. DEPARTMENT agrees to pay CONTRACTOR an additional amount not to exceed $93,227.22 for such services. DEPARTMENT shall reimburse the CONTRACTOR upon receipt of invoices for the additional cleanup performed.

3. The maximum amount of the agreement is increased from $2,966,287 to $3,059,514.22.

4. All other terms and conditions of the agreement which are not specifically modified by this amendment shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year above written.

ATTEST
(Corporate Seal)

BY: _____
Secretary/~~Treasurer~~
(Cross out one)

BY: Charles Saulsman
~~President~~/Vice President
(Cross out one)

_____
Federal Identification Number or
Social Security Number

ATTEST

_____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

_____
Deputy Secretary for
Environmental Protection

APPROVED AS TO LEGALITY AND FORM

_____
Chief/Assistant Counsel
Department of Environmental Resources

_____
Office of Attorney General

APPROVED:

_____
Secretary, Office of the Budget

_____
Date

I hereby certify that funds in the amount of are available under Appropriation

_____
Comptroller

_____
Date

000648

WESTERN

APPENDIX C

SCHEDULES AND REQUESTS FOR PROGRESSIVE SEQUENCING

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: 215-692-3030
TELEX: 83-5348

16 January 1987

Mr. Fred Klotzbach
Rollins Environmental Services (FS), Inc.
P.O. Box 92
Chadds Ford, PA 19317

Dear Fred:

The purpose of this letter is to confirm the understanding we reached yesterday regarding schedule modifications, relative to Phase I of the Wade Site Cleanup. Your plan for performing the site survey work after the removal of debris and soil piles is acceptable. However, it is important to note that the RFQ/P specified a sequential execution of the work without overlap of Phases. WESTON has developed a Phase I checklist based upon the requirements of the RFQ/P and the RES(FS), Inc. proposal (similar checklists will be developed for subsequent phases). A copy of the checklist is enclosed for your information. It is our position that payment for Phase I will not be authorized until all of the items on the checklist (including site survey) have been completed.

Additionally, I would like to mention that I will need your revised project schedule in the near future. Specifically, WESTON and the DER are requesting the revised schedule on or by 16 January 1987. Your proposal and plans for executing Phases IV and V in an overlapping manner should be submitted by 30 January 1987 or by the end of Phase II, whichever comes first.

One final item that I would like to address is the electrical substation and PCB capacitors staged on-site. I have currently authorized you to pack the leaking PCB capacitors in DOT approved drums with absorbent packing. Please submit a written proposal (or a change order form) for evaluating the electrical substation for the presence of PCB dielectric. The proposal should also address the plans and costs associated with the authorized

WESTON

Mr. Fred Klotzbach
Rollins Environmental Services, Inc.

14 January 1987
Page 2

containerization and subsequent transportation and disposal at a permitted PCB facility. Please submit your proposal by 23 January 1986.

Sincerely,

ROY F. WESTON, INC.

John E. Claypool, Jr.
Project Engineer

JEC:agd

cc: R. Pease
C. Carleo
S. Egnaczyk
R. Allen (PA DER)
D. Becker (PA DER)

000651

Rollins Environmental Services (FS) Inc.
Chadds Ford Business Campus, P.O. Box 92, Chadds Ford, PA 19317
(215) 358-5550

January 19, 1987

Rollins

Mr. John Claypool
Roy F. Weston, Inc
Weston Way
West Chester, PA 19380

RE: Wade Site, Chester, PA

Dear Mr. Claypool:

The following is our proposed work schedule for this project:

Phase	Task	Days	Time Period (1987)
1	Mobilization	7	Jan. 8 - Jan. 16
2	Tankers, Metal & Wood Removal	16	Jan. 19 - Feb. 9
3	Tires, Drums & Surface Soil Removal	34	Feb. 10 - Mar. 30
4	Subsurface soil Removal	22 *	Mar. 31 - Apr. 30
5	Bldg. Demolition & Rough Grading	13 *	Apr. 13 - Apr. 30
6	Final Grading & Erosion Control	25	May 1 - June 5
7	Demobilization	5	June 8 - June 12

* **13 Day Overlap**

Written notification will be provided for any variances to this schedule.

Sincerely,

Frederick J. Klotzbach, Jr.
Senior Project Manager

FJK/dg

cc: Donald Becker, PADER
Robert Allen, PADER
Robert Pease, Weston
R. Jaffe, RES(FS)

000652

WESTON WAY
WEST CHESTER, PA 19380
PHONE: 215-692-3030
TELEX: 83-5348

19 January 1987

Mr. Fred Klotzbach
Rollins Environmental Services(FS), Inc.
P. O. Box 92
Chadds Ford, PA 19317 W. O. #0739-26-03

Dear Fred,

As we discussed yesterday evening, there are several tasks in Phase I which have yet to be completed. These include:

1) An industrial hygiene technician must be on site full time,
2) The work zones must be delineated,
3) A decontamination zone must be constructed.

Additionally, while checking the specifications, I found that two rounds of 8 hour background ambient air monitoring samples are required. To date, one round of four hour samples has been collected. There are a number of items in Phase I which have been begun or for which equipment has been ordered, including:

1) Construction of truck scales,
2) Repairs to the perimeter fence,
3) Sediment barrier at the site perimeter.

I am concerned that a substantial amount of the Phase II work has been initiated despite the uncompleted status of Phase I. The overlapping of phases is not in conformance with the requirements of the RFQ/P nor of the contract between the PA DER and RES(FS), Inc. The overlapping of Phases I and II has been discussed with the Site Representative, Mr. Robert Allen and Mr. Donald Becker, the DER contracting officer for this project. We concur that the overlapping is not in conformance with the above mentioned documents. Consequently, you are formally directed to expedite work on Phase I prior to performing any more Phase II tasks until:

WESTON

1) All of the tasks associated with Phase I have been completed to the satisfaction of the Clean-up Director and the Site Representative, or;

2) A letter requesting a variance for various tasks requiring a delay has been submitted to the Clean-up Director and approved by the Contracting Officer.

One additional matter that I would like to discuss is the question you and Mr. Paul Thomas of RES (DE), Inc. raised regarding the frequency of collection for air monitoring samples. I understand that your interpretation is that daily samples will be collected during activities involving handling of hazardous materials (Phases III and IV). My interpretation is that air monitoring is required on a daily basis for the duration of the work. Section 13.10.3 states, "Active monitoring shall be conducted . . . at all times during construction activity at the site". Additionally, Section 13.10.2 of the RES(FS), Inc. proposal states, "Ambient air quality will be monitored during all site clean-up work".

The agreement we reached during our evening meeting on January 15, 1987 is acceptable to me and I will discuss it with the Contract officer. We agreed that air monitoring for volatile organics will be performed until the completion of all hazardous material work (through the end of Phase IV) and that monitoring for airborne particulates will be performed through the completion of demolition work (Phase V). Air samples will be collected daily from three of the air monitoring stations which have been designated. Additionally, the specifications require that a daily duplicate be obtained from one of the three daily stations.

WESTON

I believe our position is clear on these matters. If you feel that the positions described in this letter are not accurate, I would recommend that we set up a conference call among the interested parties to discuss them.

Sincerely,

ROY F. WESTON, INC.

John E. Claypool

John E. Claypool, Jr.
Project Engineer
Wade Site Clean-up Director

JEC:lme
cc: R. Pease
S. Egnaczyk
C. Carleo
R. Allen (PADER)
D. Becker (PADER)
M. Mellinger (RES)

Note: A handwritten version of this letter was delivered to F. Klotzbach on January 15, 1987.

Rollins Environmental Services (FS) Inc.

MEMORANDUM

Rec'd. 2/3/87

TO: Robert Allen, - Site representative, PADER
John Claypool - Clean-up director, Weston

FROM: Fred Klotzbach, Jr. - Supervisor, RES(FS)

SUBJECT: REQUEST FOR PROGRESSIVE SEQUENCING OF PHASE 5 DEMOLITION WORK

DATE: January 31, 1987

REFERENCE A: Agreement by and between the Commonwealth of Pennsylvania Department of Environmental Resources and Rollins Environmental Services, RES(FS), Inc. Dated December 22, 1986.

In accordance with Article 12 of Reference A, Paragraph 1, RES(FS) is requesting that it be permitted to perform portions of the Phase 5 demolition work during Phases 2 through 5, inclusive. The following specific reasons are sited for this request:

a. RES(FS) has an obligation to perform in an expeditious and professional manner in accordance with Article 7.1 of Reference A and has acknowledged in Article 2, Paragraph 2 that the work can be performed under the normal climatic conditions at the site during this winter portion of the year. We have experienced some early severe snowfalls, one after the other with more in the forecast. The demolition work is not as severely effected by weather as other phases and would enable RES(FS) to continue to meet its schedule.

b. The clearing of structures will make it easier for RES(FS) to complete components of other phases of work in a more expeditious manner. The site has very little "clean" area for stockpiling non-contaminated rubber, steel and debris prior to its being shipped off site and for placing construction facilities and equipment.

c. Using the demolition phase work during Phases 2 through 4 would enable RES(FS) to utilize non-productive time for personnel and equipment normally encountered in the course of scheduled work for productive purposes.

d. RES(FS) believes that the request is covered by the terms and conditions of the contract.

000056

RES(FS) has submitted a Health and Safety plan for Phase 5 work to be completed during Phases 2 through 5 and Phase 5 exclusively.

We look forward to your earliest reply.

FJK/leb

cc: R. Jaffe
R. Pease
D. Becker

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: 215-692-3030
TELEX: 83-5348

9 February 1987

Mr. Fred Klotzbach
Rollins Environmental Services(FS), Inc.
P.O. Box 92
Chadds Ford, PA 19317

Dear Fred:

I have had several conversations with Rob Allen, Don Becker and Bob Pease regarding your request for "progressive sequencing" of Phase 5 activities. Your letter provided us primarily with the reasons you feel that progressive execution of Phase 5 during Phases 2 through 4 was appropriate and necessary. In order for us to thoroughly evaluate your request, a detailed written proposal describing your technical approach is needed. Your technical approach should address, at a minimum, the following items:

- o List of the equipment to be used for the demolition work, if it differs from the equipment specified in the RES(FS) proposal;
- o A plan for performing the demolition work in a logical sequence of tasks; tasks should be of a duration approximating the anticipated periods of downtime;
- o If demolition activities are planned when activities associated with other phases are underway, a detailed description of how personnel not associated with demolition work are kept clear and accounted for;
- o Delineate on a site plan where the demolition rubble will be staged.

Please consider the following factors when developing your approach for progressive execution of Phase 5. As you are aware, four large electrical capacitors were recently discovered in a metal building adjacent to the main shredder room. Additionally, we both inspected the main electrical panel for the shredder equipment and observed a heavy oil coating on much of the

WESTON

switchgear. We have discussed the likelihood of PCB contamination in these areas. In light of these findings, demolition work in these areas will not be permitted to proceed until the presence or absence of PCB has been determined.

The safety plan you have submitted to me is currently under review. I expect to provide you with my comments on the plan in the next week.

Very truly yours,

ROY F. WESTON, INC.

John E. Claypool, Jr.
Project Engineer

JEC:lme
cc: Bob Pease
Chris Carleo
Steve Egnaczyk
Rob Allen (PADER)
Don Becker (PADER)

000659

MEMORANDUM

TO: John Claypool - Weston

FROM: Fred Klotzbach - RES(FS)

RE: PROGRESSIVE SEQUENCING OF PHASE 5 WORK

DATE: February 11, 1987

REFERENCE A: Weston February 9, 1987 letter concerning progressive sequencing of Phase 5

In reply to Reference A the following submittal is made:

1. Concerning listed equipment in Section 3.2 of our original proposal, we are proposing to utilize a 225 hydraulic excavator with bucket (or equivalent) and a 235 CAT with 52' demolition boom and 225 ton shear in place of the American 5300 crane with pear ball and clamshell. All other equipment for taking down masonary walls, etc. remains the same including bucket loaders, bobcats, pneumatic tools, hand wrecking bars, etc.

2. The sequence of tasks will be performed in the exact opposite direction from that originally proposed. This will allow the least number of personnel not associated with demolition to be kept clear of the work area. Refer to the attached demolition zone delineation drawing for area identification.

   Area A - Elevator shaft will be left intact until the 235 CAT is on site (During Zone H & I work).

   Area B - During times the tire shredding operations are temporarily halted, the area will be cleared of personnel and masonary walls and collapsed wooden roof removed. Debris will be staged in the southern part of Grid 5.

   Area C - Area C is basically demolished and to the north will be used for rubber storage prior to washing. The southern area will be used for rubble storage.

   Area D - Is the east and south walls of the crushed drum and tire/shredded rubber piles which have been moved forward into Grids 38 and 39. Since no one would be working in this area after the drums are shipped, this area could be knocked down and stockpiled in Grid 6 as time allows.

000660

Area E - Would be next. Again, no one would be working in this area at any time except for demolition. This area could be knocked down and stockpiled in Grids 6 & 7 with the roof being placed in Grid 41. This area could be worked as time allows.

Area F - The wood roof will be placed in Grid 41 after removal. Steel and vessels will be placed in Grid 23 for later shipment. Masonary work will be pushed into Grid 8. This work will be performed after excavation and emptying of the underground tank. Again, no other work will be occurring in the immediate vicinity of this work when it is being performed.

Area G - The steel work on the ground will be pushed aside to await the 235 CAT shear.

Area I - This area demolition will be performed with the CAT 235 shear. All excavation work south of this area should be complete prior to start of this work. If it hasn't been, this work will not be performed when dump trucks for secure chemical off site disposal are being loaded. Rubble will be staged in Grids 8 and 24. The tire shredding operation should be completed and the Area A elevator shaft will be taken down with the shear and the rubble pushed back into Grid 6.

Area H - This area will not be demolished until it is confirmed that there is no PCB contamination present. The structural steel will be taken down with the shear and piled in Area 26 for off site removal.

The sequencing may involve Area D being performed first and then B or E depending on down time encountered during tire shredding.

As it would appear that most of the demolition work will occur while the southern and northern parts of the site are being excavated (Phase 4 work) there should not be any time where the two phases will "impact" each other.

3. As indicated in 2 above, there should never be demolition work and either Phase 3 or Phase 4 work being performed in adjacent grids simultaneously. In addition, demolition work will not occur during loading out operations (when other than RES(FS) personnel would be in the contaminated zone) in Phase 3. This is because the demolition equipment will be utilized for load out. The area I work would not be performed when trucks are being loaded out for secure chemical off site disposal because again with the exception of the CAT 235 shear, the same equipment is being utilized.

Basically the only time demolition work will be performed is when only RES(FS) work personnel are on site. At the daily safety meeting the area of demolition will be explained and the area put off limits to all but the demolition equipment operators and foreman. Before any masonary structures or roofs are knocked down, the foreman will ensure that both sides of the structure are clear. The foreman will also ensure that only small sections of masonary are taken down versus an entire wall which may topple some other structure.

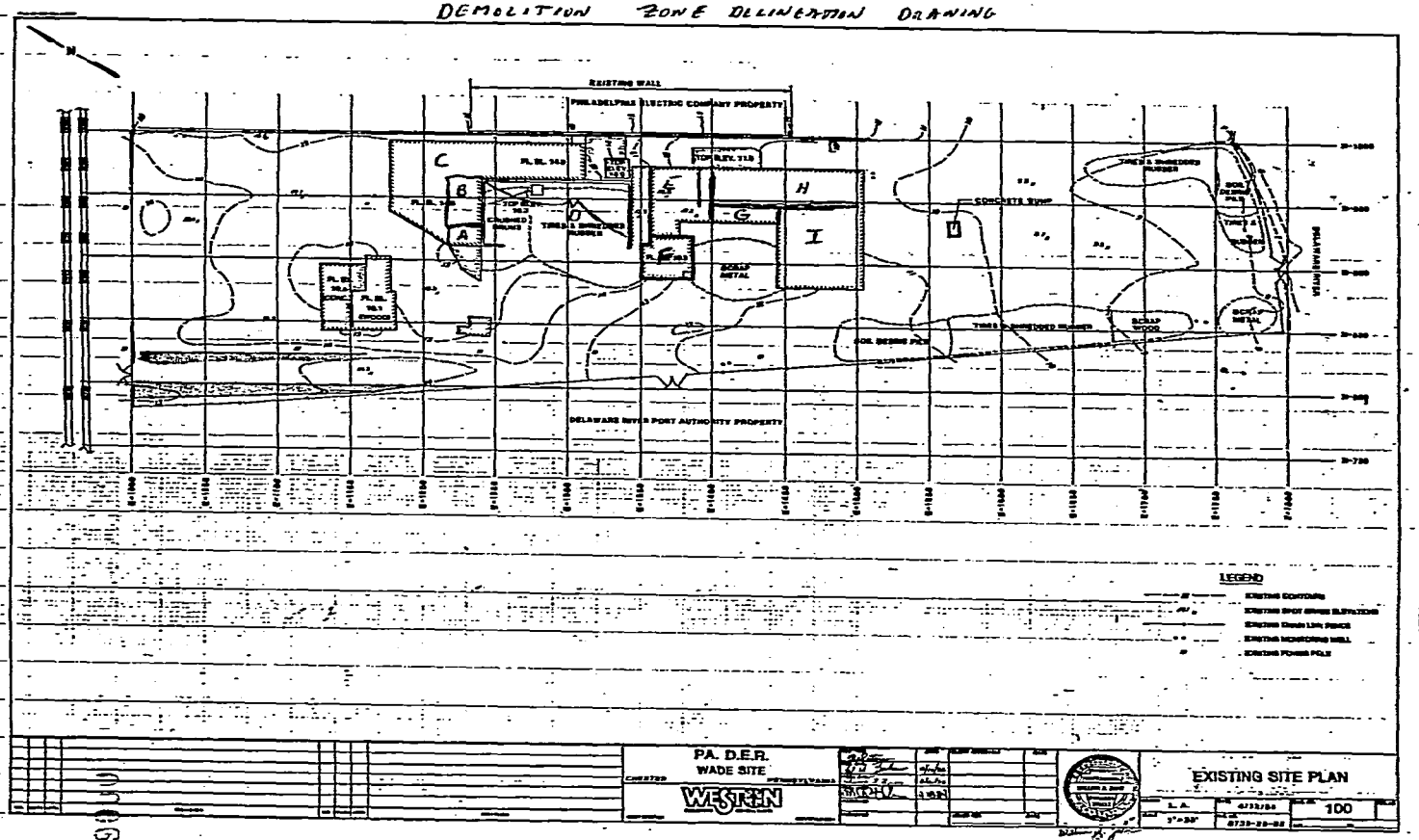
4. Rubble staging is addressed in 2 above.

FJK/leb

Attachment

cc: R. Jaffe

DEMOLITION ZONE DELINEATION DRAWING



PA. D.E.R.
WADE SITE

WESTON

EXISTING SITE PLAN

100

MEMORANDUM

TO: John Claypool - Weston

FROM: Fred Klotzbach - RES(FS)

RE: TIME SCHEDULE

DATE: 12 February 1987

Attached is the bar chart time schedule. This chart is a graphic presentation of my January 19, 1987 written schedule.

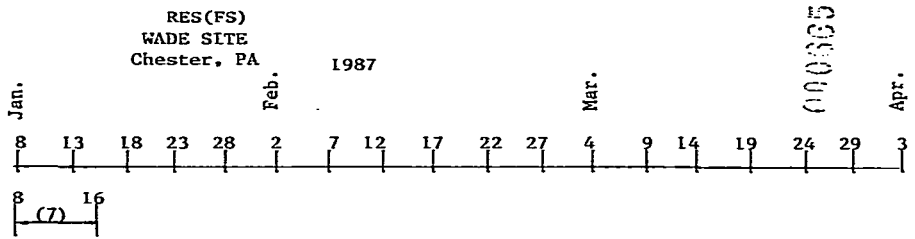
FJK/leb

Attachment

cc: R. Jaffe

000664

RES(FS)
WADE SITE
Chester, PA



PHASE 1: Mobilization & Site Preparation

- Facilities Established
- Baseline Air Monitoring
- Perimeter Fence Repair
- Re-establish Grid System
- Drainage & Erosion Control Measures

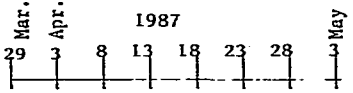
PHASE 2: Removal of Tankers, Wood, & Scrap Metal

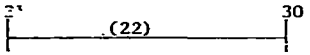
- Remove Tankers
- Remove Wood
- Remove Scrap Metal

PHASE 3: Removal of Surface Soil, Crushed Drums & Tires

- Remove Crushed Drums
- Remove Surface Soil
- Remove Tires
- Analyze & Remove 11 Drums
- Remove/dispose of contents of Underground Tank

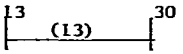
(RES)FS
WADE SITE, Chester, PA





PHASE 4: Soil Excavation

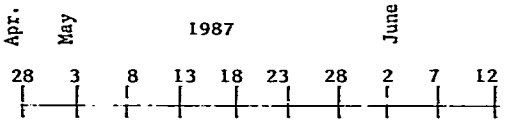
Locate/Seal Water Line
Berm Construction Around Excavations
Scrape Surface Soils & Remove
Excavate Soils & Remove
Collect Contaminated Liquids (Rain, Sumps, Etc.)



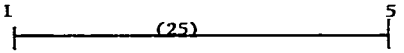
PHASE 5: Building Demolition

Disconnect Utilities
Clear All Debris from Buildings (Machinery, etc.)
Remove Roofs, Partitions, Wood Buildings, Etc.
Demolish Concrete, Masonary Walls & Backfill Excavations
Concrete Core Drill Concrete Pads
Backfill w/sand Basements
Remove Shredded Rubber Silos
Sample & Remove Sediment from Erosion Controls
Establish Grades for Rough Grading
Analyze Fill
Rough Grade Entire Site
Rough Topographic Survey

RES(FS)
WADE SITE, Chester, PA



PHASE 6: Final Grading & Placement of Site Management Controls



Analyze Topsoil
Final Grade Entire Site
Remove Rocks, Debris, etc. Greater than 6"
Place Erosion Management Controls
Prepare Seedbed
Plant Seed Bed, Mulch, & Water
Maintain Seedbed for 1 year

PHASE 7: Project Closeout

Repair all Fences, Monitoring Wells, Erosion Control, etc.
Disconnect All Utilities, Remove Trailers, etc.
Turn Site Over to PADER

000667

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: 215-692-3030
TELEX: 83-5348

23 February 1987

Mr. Fred Klotzbach
Rollins Environmental Services(FS), Inc.
P.O. Box 52
Chadds Ford, Pennsylvania W.O. #0739-26-03

Dear Fred:

The purpose of this letter is to confirm the discussions and understandings reached this week with regards to the RES request for progressive sequencing of the Phase 5 work at the Wade Site in Chester, PA. Both WESTON and the DER have reviewed your request, the detailed technical approach and the Phase 5 safety plan. We have found your technical approach to be adequate. However, we would like to note that your approach specifies that large walls will be demolished only when RES personnel are on-site. It is assumed that the Cleanup Director, the Site Representative, the industrial hygiene technician and the guard in the guard trailer will also be allowed on-site during demolition work.

A second point regarding the technical approach is that you have proposed to use a 225 hydraulic excavator (backhoe) in place of the crane and ball. This is acceptable, however, we believe that high masonary walls (such as in areas B&D) should be pushed away from the excavator wherever possible. This is highly desirable to avoid the possibility of damage to the excavator and/or injury to the operator. Walls that have been reduced to a manageable height of 10-15 feet can be pulled towards the excavator. It is also preferable to push the masonary walls in Areas B and D into the building to avert the possibility of damaging the fence and structures along the PECo property line.

We have several comments regarding the Phase 5 safety plan that should be addressed before the demolition work proceeds. These comments are as follows:

1. Please fill in the names of the individuals who will be participating in the work and obtain their signatures in the appropriate sections of the plan.

WESTON

2. Asbestos removal work must be performed in strict accordance with Final OSHA rules in 29 CFR parts 1910 and 1926. Specifically the rule requires (among other things) that workers involved in asbestos removal utilize powered air purifying respirators or full face APRs. If full face APRs are used, the workers must have passed a quantitative fit test.

3. Please notify WESTON at least 2 days in advance of any asbestos removal work.

4. Asbestos and PCBs should be added to the list of hazardous materials expected on-site. The nature of the hazards and procedures for monitoring for these substances should be described.

5. Procedures for clearing the work area prior to demolishing any high structures or walls should be described. A responsible individual such as a foreman should continuously observe this work. This individual should be provided with an air horn to signal "stop work" or "emergency". These signals should be practiced as a drill prior to any demolition of high structures or walls.

This letter constitutes conditional approval of the RES plan to progressively execute the Phase 5 demolition work at the Wade Site. You are authorized to proceed with this work after the required changes to the safety plan have been completed.

Very truly yours,

ROY F. WESTON, INC.

John E. Claypool Jr.
Project Engineer

JEC:lme
cc: D. Becker (PADER) R. Allen (PADER)
B. Pease S. Eganczyk
C. Carleo

11669

WESTERN

APPENDIX D

DAILY REPORTS

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 1-9-87 BY: John C Clapper	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Pt. Cloudy - 40°
JOB NO: 0739-26-03	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- removed brush		
- established guard svs.		
- moved 13 drums into back portion of Flower St.		
- moved electrical substation		
- began gutting office bldg.		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- installed telephones	
- plumbed decon trailer	
- installed elec. service	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- Trailers delivered and blocked on 1-8-87

- Met w/ Chester Health Officer, Police/Fire Depts and City Engineer to discuss site operations.

- Pre-construction conference held on-site @ 9:15 a.m. Discussed schedule issues - requested proposed schedule bar chart w/ explanation from REE.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

① Lacna Smith - EPA Reg III

② Don Lamparelli - REE (PS) Inc.

③ Ron Baker, PaDER

00087 1

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 1-12-87	BY: R. ALLEN
CONTRACTORS SUPERVISOR: FRED KLOTZBACH	
LOCATION: WADE SITE CHESTER, PA.	
JOB NO:	
WEATHER & TEMPERATURE: CLOUDY 35-40°	

DESCRIPTION OF WORK PERFORMED:
1) CONTRACTOR

ELECTRIC BEING INSTALLED. WORK ON PLUMBING + WATER IS CONTINUING PHONE LINES ARE IN BUT NO PHONES ARE AVAILABLE FOR DEL TRAILER.

PERSONNEL & EQUIPMENT:

DESCRIPTION	NUMBER
SEE RES(FS) DAILY	

2) SUBCONTRACTOR:

SEE ABOVE

MATERIALS: (QUANTITY, PURPOSE)

SEE RES(FS) DAILY

COMMENTS/PROBLEMS/AGREEMENTS MADE:

RES(FS) NOTIFIED DELAWARE RIVER PORT AUTHORITY THAT THEY OWN A PORTION OF THE SITE - DRBA WILL RESEARCH IT.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 13 JAN 87 BY: John C. Hoppard	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site-Chester, PA.	WEATHER & TEMPERATURE: Mostly Sunny - 45° Light Winds
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- Continued with utility hook ups. Electric service connected. Phones installed yesterday but no phones in RES trailer. Water lines have been traced but connection to main needed. - Began assembling water tanks inside office building.	see RES(FS) Daily	

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- Utilities as noted above.	see RES(FS) Daily

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- Discovered seven large PCB capacitors in one of the buildings. RES has staged the units on Flower St. near the elec. substation. One unit minor leak (a insulator on top) very little loss of dielectric).
- Provided EK with list of items to phase I needing completion prior to initiating phase II.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

Paul Thomas - RES(PE), Inc. - Corp. Health & Safety Oversight.

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 14 JAN 87 BY: John Claypool

CONTRACTORS SUPERVISOR: F. Klotzback

LOCATION: Wade Site - Chester, PA.

WEATHER & TEMPERATURE: Unseasonably Warm - 54°
Pt. Cloudy
Medium Winds

JOB NO: 0739-26-03-05

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
1. Razed the wood/tin building abutting the main stone/brick building - concrete pad to be used for tire shredder.	see RES(PS) Daily	
	Track Front End Loader (new piece of equip on site today)	1
2. Operators pumped out tankers #4 and 5 in to tank inside office bldg.		
3. Temporary truck decon station constructed.		
2) SUBCONTRACTOR: 1 Phone installed in DER trailer (1 more needed).	MATERIALS: (QUANTITY, PURPOSE) see RES (FS) Daily	

COMMENTS/PROBLEMS/AGREEMENTS MADE:
Met w/ F. Klotzback re: overlapping of Phase I and II. Several key items in Phase I still need to be addressed, including full time industrial engineering technician, personnel decon area and a meteorological station. I granted a variance to perform site survey work after surface piles have been removed but advised him that payment for Phase I will not be authorized until all tasks in Phase I have been completed to my satisfaction.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)
P. Thomas collected perimeter air samples in afternoon.

VISITORS: (Time, Representing, Comments)
P. Thomas - RES(PS), Inc.

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 15 JAN 87 BY: John Clapper

CONTRACTORS SUPERVISOR: F. Klotzbach

LOCATION: Wade Site - Chester, PA.

WEATHER & TEMPERATURE: Partly Cloudy - Light Drizzle 48-55°

JOB NO: 0739-26-03-05

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
1. Removed 5 truckloads (7-8 tons ea) of scrap wood and debris from front portion of site.	Backhoe	1
2. Operator prepared tankers 1, 2, and 3 ink holding tank	Front End Loader	1
3. Silt fence installed at back gate	Komatsu D65S Loader	1
4. Continued construction of decon.	Arrived on-site.	

2) SUBCONTRACTOR:

1. Continued work on temporary H2O service. PVC line run under RR tracks. Work to be resumed 1/16 tomorrow a.m.

MATERIALS: (QUANTITY, PURPOSE)

see RES(FS) Daily

COMMENTS/PROBLEMS/AGREEMENTS MADE:

* Evening meeting with FK and MM to discuss overlapping of Phases I and II. RES was told this is not acceptable. Provided RES w/ draft letter ordering expedited completion of Phase I tasks.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

None

VISITORS: (Time, Representing, Comments)

Karl Shuker, RES(FS), Inc. - National Operations Mgr.

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 16 JAN '87 | BY: John Chappel

CONTRACTORS SUPERVISOR: F. Klotzbach

LOCATION: Wade Site - Chester, PA.

WEATHER & TEMPERATURE: Pt. Cloudy
Temp - 37 - 41°
Winds - N - up to 13 mph

JOB NO: 0739-26-03-05

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- continued construction of decon area	CASE 580 Backhoe	1
- delineated work zones	JD 977 Track Loader	1
- performed perimeter air monitoring	Komatsu Track Loader	1
- removed 4 leads of man-hole	Steam Jenny	1
weed, metal and rubber.	Bobcat Loader	1
- installed silt fence on RRA property	Compressor/Jackhammer	1
- levelled block walls to open slab		
for shredding equipment.		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- fence repairs continued	- lumber for decon
- water service insulated	- $CaCl_2$ supplies received - 20 bags @ 100 lbs. ea. for dust control.

COMMENTS/PROBLEMS/AGREEMENTS MADE:
Decon will be finished by beginning of Monday.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)
Data on initial air monitoring samples taken 1/14/87 by P. Thomas due on 1/15/87. Has yet to be provided.

VISITORS: (Time, Representing, Comments)
B. Boyd, C. Kurtz and G. Kagle - PA DER - Risley Creek - 1115 hrs.
David Damman - Damman Associates - Surveyor - 1120 hrs.
J. Semple / R. Jaffee - RES (FS)

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 17 Jan 1987 BY: John Claypool	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Sunny - 35-40° Lt. Winds
JOB NO: 0739-26-03	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- Continued building personnel decon zone - Redone floor constructed.	Laborers	3
	Guard	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
Guard Service	Lumber for decon zone.

COMMENTS/PROBLEMS/AGREEMENTS MADE:
- Discovered an unknown manhole at coordinate E-1290/N-990
- Truck decon pad leaking raisate onto ground.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)
N/A

VISITORS: (Time, Representing, Comments)
NONE

000577

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 19 JAN 87 BY: John Clayton	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Heavy rain, Temp ~35°
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- loaded and removed 2 loads of wood/debris to Petrille Bros. LF	JD 977	1
- loaded and removed trailer #3 to Savey's yard for cutting	Komatsu loader	1
- loaded and removed 3 loads of scrap metal to Camden Scrap	Case Backhoe	1
- continued installing silt fence	Grime Fighter	1
- repaired truck decon pad	Tractor - trailers	3
- continued set up of personnel decon	compressor/AIC hammer	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH technician on-site	
- Non-haz. transportation/disposal	
	see RES (FS) daily

COMMENTS/PROBLEMS/AGREEMENTS MADE:
- see minutes of daily meeting in project notebook
- release of acetylene gas due to broken valve stem - site evacuated. No injuries. Incident Report attached.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)
NONE - still awaiting data for samples collected 1/14/87

VISITORS: (Time, Representing, Comments)
NONE

AA0073

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 20 JAN 87 BY: John Claypool	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Mostly cloudy - brisk wind Temp ~ 35°F
JOB NO: 0739-26-03	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- decon zone essentially fully operational.	JD 977 Loader	1
- silt fence installation along PECO fenceline continued.	Komatsu Loader	1
- loaded 3 truckloads of scrap for disposal (see below comments)	Case 590 Backhoe	1
- transported 1 trailer off-site for cutting.	Grime Fighter	1
	Tractor Trailers	3
	Compressor / Air Hammer	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- fence repairs continue	- Lumber for skirts around trailers
- industrial hygiene support	- Hardware for fence modifications
- transport / disposal - non haz.	- Silt fencing

COMMENTS/PROBLEMS/AGREEMENTS MADE:

Three loads of scrap metal from the pile adjacent to the Boiler House were rejected by Camden Scrap Iron. The loads were returned to the site and dumped. 1 Backhoe, 1 operator and 1 laborer assigned to sort through the pile. FK and E discussed approach for extra work (sorting the pile).

Release of acetylene gas yesterday p.m. No injuries or damage. Incident report to be prepared by J. Maurer

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

Verbal data for air samples collected on 1/14/87 received. Lab report promised by 1/23/87

VISITORS: (Time, Representing, Comments)

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 21 JAN 87 BY: Robert Sheppard	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Overcast to Pt. Sunny 34-38° Winds W/N-W 5-16 MPH
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- Removed grub debris	JD 977 Track Loader	1
- Placed skirts around trailers	Komatsu D65S Loader	1
- Removed 1 load wood for Landfilling	Steam Jenny	1
- Prepared tankers for removal to SAVOY's yard. - Torch cutting initiated at SAVOY's.	Case 580 Backhoe	1
	Bobcat Loader	1
	Torch set	1
- Front gate modifications completed.		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- Guard service continued	- Lumber for trailer skirts
- hygiene technician services continued	- Personnel protective gear.
- installation of sanitary waste system completed.	

COMMENTS/PROBLEMS/AGREEMENTS MADE:
- Three more PCB capacitors discovered in Shredder Bldg.
- DELCORA line inspection crew reported "illegal discharge" into Flower St. Manhole. Inspector on-site was advised as to the nature (and previous approval) of the discharge. C. Carter to express mail a copy of the DELCORA approval letter to the site.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)
None

VISITORS: (Time, Representing, Comments)
- Concast crew
- DELCORA inspector

000380

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 22 Jan '87 BY: John Clayton	CONTRACTORS SUPERVISOR: F. Kotzbach
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: Heavy snow, Temp N35° Winds NE at N10 mph
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- continued cutting Tanks #30 SAMPS yard	JD 992 front loader	1
- initiated fuel/grubbing	Komatsu Loader	1
- attempted to load tanker onto lowboy - truck could not access site adequately to permit loading	Bobcat Loader	1
	Trailer/Tractor (lowboy)	1
	Grime Fighter	1
	Cutting torches	1
	per REAC(FS) daily	

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- Guard service continues	
- I. H. Technician service continues	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- Worked 1/2 day due to weather - will probably not work tomorrow due to predicted accumulation of 7-12".

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

NONE

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 23 JAN 87 | BY: John Claypool

CONTRACTORS SUPERVISOR: F. Klotzbach

LOCATION: Wade Site - Chester, PA.

WEATHER & TEMPERATURE: Temp 30 → 20°F (Wind Chill 0°F) Partly Sunny - 1/4" SNW Accumulation Winds - West @ 20-30

JOB NO: 0739-26-03-05

DESCRIPTION OF WORK PERFORMED:
1) CONTRACTOR: NONE

PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER

2) SUBCONTRACTOR: NONE other than guard svc.

MATERIALS: (QUANTITY, PURPOSE): received 118 cartons of protective garments.

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- Temporary water service broken by tow truck extricating van stuck along side RR tracks.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

NONE

HH0582

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 27 Jan 87 BY: J Clampett	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Sunny - 15-25°F Winds North @ 7-12mph
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- continued grubbing rear of site	CASE 580E Backhoe	1
	Komatsu D65S loader	1
- crushed and loaded tanks #2 - transported off-site.	TD 977 loader	1
	Crane fighter	1
	lowboy trailer	1
- loaded tanks # 4 - transport tomorrow	dump trailers	2
- cut 3/4 of shell on tanker #1 for haz mat removal* (9½ hrs. labor expended).	Milwaukee Saw*	
	Bobcat loader removed from site for repair	

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- guard & ind. hygiene svcs. cont.	blades for Milwaukee Saw*
- survey initiated	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

* extra work initiated by RES @ their site

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE.

VISITORS: (Time, Representing, Comments)

NONE

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 28 JAN 87 BY: John Chappel	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Temp 8 - 38° Winds W/SW 3 - 7 mph
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- continued cutting tanker #1*	Case 580E Backhoe	1
- constructed sheet for gas cyls.	JD 577 loader	1
- began cutting end walls on* tanker #6	D65S loader	1
	Milwaukee Saws*	2

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard svcs. continue	Saw blades*

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- Health & Safety items such as boot wash / zone delineation will be operated / installed first thing tomorrow

* "At risk" work pending formal change order.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE -

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 29 Jan 87 BY: John Clapsaf	CONTRACTORS SUPERVISOR: F. Klotchkoff
LOCATION: Wade Site - Chester, PA	WEATHER & TEMPERATURE: Mostly sunny - 20-25° Winds W/SW @ 5-7 mph
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- PCB capacitors overpacked *	Case 580E backhoe	1
- Cut manholes on tanker #6	JD 977 loader	1
- Rubber matting initiated.	D6SS loader	1
- Solids removal from tanker # 1	Milwaukee saw *	2
- Began welding the vehicle down pad into place.		
	labor for overpacking capacitors	~6 hrs.
2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)	
- I & guard svcs. continue	3" DOT drums (open top, 55 gal)	
- Repairs to tent gas continue.	2" bags vermiculite	
- Site Survey initiated	4" PCB labels	
	Saw blades * (many)	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- RES plans to use demobilization work as filler work during Phases 3 and 4 when equip. is down awaiting tanker. We agreed to suspend demolition work pending receipt of Phase III safety plan and that tire knife will not bring down tape with the heat bucket.

* "At risk" work pending approved change order.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE -

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 30 Jan 87 BY: J. Clapsaddle	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, Pa	WEATHER & TEMPERATURE: Foggy - mild (25-35°) 3/4" wet snow last nite
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- finished cleaning tanker #6*	Case 580E Backhoe	1
- tankers #1 and 3 crushed and loaded for off-site disposal	JD 977 loader	1
	D65S loader	1
- continued rolling vehicle decon pad	Stream Jenny	1
- rubber sorting continued		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IM acid guard svcs. continued	hand tools and sump pump for removing haz mat from tanker #6*
- Site Security continues	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- revised layout of support zone due to increased space needed for truck scale composition to put flush mounted casings on wells B3 and B5A.

- DELCORA wants our sanitary wastes tested for PP metals and TOX before they will permit discharge to manhole.

* "At risk" work pending sample authorization.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE -

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 31 Jan 87 BY: J.C. Clayton	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Mostly Cloudy - 35°
JOB NO: 0735-26-03-05	Winds 10-12 mph

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- finished welding remote decon pad	- Shredder trailer arrived	
- built walkway to break trailer	IH-3514B backhoe arrived last nite.	
2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)	
- guard svcs. continue	- lumber for walkway	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- NONE -

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE -

37

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5346

DATE: 2 Feb 87 BY: John Clayton	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: 45° - Mostly Sunny
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- relocated equip. trailer, oil/water shed and fuel dump	JD 977 loader	1
- modified crossings on MW33 and B3A to accommodate truck	D 65 S loader	1
scale construction.	CASE 580 E loader	1
- continued rubber/fire sorting	IH 3554 backhoe	1
- finished recovering buried solids	Electromagnet Attachment *	1
in work zone.	Steam jenny	1
- attached electromagnet to the		
IH 3554 backhoe *		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- power supplied to break trailer	
- survey completed	
- IH and guard sites continue	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- RFN to collect and analyze a sample of the sanitary holding tank for DELCORA permit application - RES to pay for the analyses.

* At risk work pending approved change order.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- H. Nu data revealed ~17ppm above bkgrd in the buried solids/soil pile in grid N3

VISITORS: (Time, Representing, Comments)

J. Semple - RES(FS) Inc.

688

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 3 Feb 87 BY: John Claypool

CONTRACTORS SUPERVISOR: F. Klotzbach

LOCATION: Wike Site - Chester, Pa.

WEATHER & TEMPERATURE:

JOB NO: 0739-26-0305

DESCRIPTION OF WORK PERFORMED:
1) CONTRACTOR

- began excavating sump from - dirtions
- continued w/ fire sorting
- attempted to wire the electro - magnet on the IH 3984 hoe → unit out operational
- constructed scaffolding for video/ inspection
- began cutting steel for fire washing units

PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
JD 977 loader	1
D6SS loader	1
Case 580E hoe	1
Schramm Pneumatractor	1
compressor/jackhammer	1
cutting torches	1 set
IH 3984 backhoe	1
electromagnet	1*

2) SUBCONTRACTOR:

- power supplied to equip trailer
- IH and guard svcs. continued

MATERIALS: (QUANTITY, PURPOSE)

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- WESTON/DELCORA split samples from the holding tank - RES approved CN⁻ analyses @ $37.50 ea. for 1 wk TAT

* unit removed from site for repairs

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- received copy of surveyor's notes
- air data for 1/29 transmitted verbally (all <0.05 mg/m³)
- h. Nu detecting readings @ selected locations

VISITORS: (Time, Representing, Comments)
Delcora Representative

000689

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 4 Feb 87 BY: John Clayton	CONTRACTORS SUPERVISOR: F. Katzbach
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: 53-42° & Sunny Winds W up to 15 mph.
JOB NO: 0734-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- poured footer for front scale	JD 977 loader	1
- continued rubber sorting	D 65S loader	1
	Case 580E backhoe	1
	IH 350H backhoe	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard svcs. continued	lumber for footer forms
	steel for footer reinforcing

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- NONE -

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE -

000690

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-6348

DATE: 5 Feb 87 BY: John Claypool

CONTRACTORS SUPERVISOR: F. Klotzbach

LOCATION: Wade Site - Chester, PA.

WEATHER & TEMPERATURE: 27-37° - Sunny Winds NW 11-Hmph

JOB NO: 0739-26-03-05

DESCRIPTION OF WORK PERFORMED:
1) CONTRACTOR

- continued rubber matting
- removed forms from scale footings
- drilled anchor holes for scale ramps and began framing

PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
Gove RT 5BA	1
JD 577 loader	1
D 655 loader	1
Case 580E loader	1
IH 3784 Backhoe	1
Electromagnet Attachment	Not Used

2) SUBCONTRACTOR:

- IH and guard svcs. continue

MATERIALS: (QUANTITY, PURPOSE)

lumber for concrete forms

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- charcoal tubes acceptable for air monitoring samples

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- developed lotus database file for air data

VISITORS: (Time, Representing, Comments)

- NONE -

000691

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 6 Feb 87 BY: J. Clayton	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: High Clouds 27-32° CAIM
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- continued fragment for scale ramps	GROVE RT58A	1
- excavated for water meter box	JD 977 Loader	1
- continued sorting rubber / tires	Komatsu D65E Loader	1
- fabrication of tire washing units progressing	Case 580E Backhoe	1
	IH 3554 Backhoe	1
	Electromagnet Attachment	Not Used

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard svcs. continue	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- M. Mellinger to provide Site Rep & Clean-up Director w/ memo describing OSHA notifications for asbestos removal required by generator.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE -

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 9 Feb 87 BY: John Clapper	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: Very Windy - 40's w/ gusts
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- only worked ½ day due to wind & blowing snow - no inspection during working hours		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)

COMMENTS/PROBLEMS/AGREEMENTS MADE:

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

0693

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 10 Feb 87 BY: Steve Claypool	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: Mostly Sunny
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- continued formwork on trench side ramps	Grove RT58A	1
- continued sorting rubber/tires	Case 580E	1
- continued fabrication of tire washing units	JD 977 loader	1
	D 65S loader	1
	I.H. 3984 backhoe *	1
	Excavator w/ attachment *	1
	Grisme Fighter steam jenny *	1
	* not used	
2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)	
- I.H. and guard svcs. continue	lumber for formwork	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- requested add'l info from RES re: technical approvals for change order request items and request to perform Phase 5 overlapping with 2, 4 and

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- Rec'd data for samples 0122WAD015/016 and 0122WAD007/008, 0127WAD002/003, 0128WAD003/008 received. Also particulate samples 0129WAD005, 0129WAD002, 0129WAD003, 0130WAD005, 0202WAD005 and 0203WAD001.

VISITORS: (Time, Representing, Comments)

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 12 FEBRUARY 1987 BY: STEVEN J EGNACZYK	CONTRACTORS SUPERVISOR: F. KLOTZBACH
LOCATION: WADE SITE - CHESTER, PA	WEATHER & TEMPERATURE: OVERCAST, COOL, SLIGHT SNOWFALL
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
• ATTEMPTING TO SORT METAL W/ELECTROMAGNET	CASE 580E	1
	IH 3984 BACKHOE W/ELECTROMAGNET	1
• CONTINUING WORK ON TRUCK SCALES & TIRE WASH UNIT	KOMATSU D66S LOADER	1
	D6 DOZER	1
• CONTINUING TIRE SHREDDING AND SORTING OPERATIONS	JOHN DEERE LOADER	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
I.H. AND SECURITY GUARD SERVICES	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

"MELVIN WADE" ATTEMPTED TO ENTER THE SITE APPROXIMATELY 2:00 PM, WAS ASKED TO ~~TRESPASS~~ LEAVE THE SITE BY FRED KLOTZBACH HE THEN LEFT ~~PROPERTY~~ PEACEFULLY. ROBERT ALLEN, DADER WAS NOTIFIED AT APPROXIMATELY 2:10 PM BY F. KLOTZBACH OF THE INCIDENT.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 13 Feb 1987 BY: John Claypool	CONTRACTORS SUPERVISOR: E. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Winds NW 12-18 mph Sunny 27-32°
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- permanent water service installed	Case 580 E backhoe	1
	IH 3984 backhoe - electromag. attach*	1*
- continued rubber/tire sorting	D65S loader	1
- continued tire shredding	JD 977 loader	1
	Gove RT 58A*	1*
- finished sorting of advanced scrap - began sorting scrap in grid 41	W/S backhoe w/ drum grappler*	1*
- continued fabricating rubber washing units	* not used	

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH add guard svc. continue	per REE records

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- Two Add'l drums of unknown material discovered

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- received cyanide data for holding tank sample

VISITORS: (Time, Representing, Comments)

Jim Johnson - PA Comptroller's office

0086

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-6348

DATE: 14 Feb 87 BY: John Claypool	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Mostly Cloudy / Light winds / 30°
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
	NO equipment used	
- continued fabrication of rubber washing units.	laborers	3

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- NONE -	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- NONE -

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NOne -

VISITORS: (Time, Representing, Comments)

G. Crawford, R.E. Weston - 11:00 - 1:10 PM - site to discuss Health & Safety issues & concerns particularly w/r/t the RSS request to progressive sequencing of Phase 5.

1697

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 17 Feb 87 BY: John Clayport	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE:
JOB NO: 0739-26-03	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- continued sorting scrap in grid 41 and finished sorting metal from returned loads	Case 580E backhoe	1
	IH 3984 backhoe	1
	-electromagnet attach.*	1
	D 65S loader	1
- continued tire shredding	JD 977 loader	1
	Bidwell 28T 58A*	1
- continued fabricating rubber washing units	Warner Swasey backhoe w/ drum grapple*	1
	* not used	
2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)	
- IH and guard svcs. continue		
	per REES records	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- Met w/ B. Pease and conference calls w/ D. Becker re: the REES request to overlap phase 5 w/ Phases 2-4.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- none -

VISITORS: (Time, Representing, Comments)

B. Pease - REW - all day

000583

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 2-18-87 BY: R. Allen	CONTRACTORS SUPERVISOR: FRED KLOTZBACH
LOCATION: WADE SITE - CHESTER, PA	WEATHER & TEMPERATURE: SUNNY 35-40°F
JOB NO: 0739-26-03	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
CONTINUED: TIRE SHREDDING	CASE 580E BACKHOE	1
SORTING SCRAP/DEBRIS	FH 3984 BACKHOE W/ELECTRO-MAGNET	1
DEBRIS REMOVAL & FENCE REPAIR AT REAR OF SITE.	D6C LOADER	1
	JD 977 LOADER	1
	GROVE RT58A	1
CONSTRUCTION OF RUBBER WASHING UNIT	WARNER SWASEY BACKHOE W/DRUM GRAPPLER	1
2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)	
GUARD + IND. HEALTH SERVICES	PER RES RECORDS	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

VERBAL APPROVAL GIVEN TO F. KLOTZBACH TO PERFORM SOME INTERIOR DEMOLITION WORK (PHASE 5) AT LEAST UNTIL TRUCK LOADING STARTS ON MONDAY (2-23); REVIEW + DECISION (IN WRITING) ON RES REQUEST TO INTEGRATE PHASE 5 WILL BE GIVEN TO FRED ON FRIDAY (2-20).

ANOTHER DRUM WAS FOUND ON SITE.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

SCALE PEOPLE

000033

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 19 Feb 1987 BY: Joseph F. Martino

CONTRACTORS SUPERVISOR: F. Klotzbach

LOCATION: Wade Site - Chester PA

WEATHER & TEMPERATURE: Sunny, clear skies, cold ~40 °F

JOB NO: 0739-86-03

DESCRIPTION OF WORK PERFORMED:
1) CONTRACTOR

- loading of scrap metal from fenceline near boiler house for offsite disposal
- continued tire shredding
- continued fabrication of rubber washing unit

PERSONNEL & EQUIPMENT:

DESCRIPTION	NUMBER
Case 580E backhoe	1
IH 3964 backhoe - electromagnet attach *	1
D 655 loader	1
JD 977 loader	1
Case RT 55A	1
Werner Swesey backhoe w/ drum grappler *	1

*not used

2) SUBCONTRACTOR:

- IH and guard services continue

MATERIALS: (QUANTITY, PURPOSE)

per RES records

COMMENTS/PROBLEMS/AGREEMENTS MADE:

Observed safety violation (removal of respirator onsite by laborer) and informed Claire Olszewsky

(1) load of slags was hauled offsite.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- None

VISITORS: (Time, Representing, Comments)

None

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5346

DATE: 2-20-87	BY: R. ALLEN	CONTRACTORS SUPERVISOR: FRED KLOTZBACH
LOCATION: WADE SITE - CHESTER PA		WEATHER & TEMPERATURE: CLEAR 35-40°
JOB NO: 0739-26-03		

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
TIRE SHREDDING	CASE 580E BACKHOE	1
WASHER CONSTRUCTION	IH 3984 BACKHOE	1
INTERIOR DEMOLITION	JD 977 LOADER	1
SCALE INSTALLATION	D655 LOADER	1
MOVED 6&10 #41 DIRT PILE	SHREDDER	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
GUARD & IND. HYG. SERVICES CONTINUE	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

MET WITH FRED K. & R. JAFFE & REITERATED CONDITIONAL APPROVAL OF STARTING PHASE 5 WORK AS OUTLINED IN RES PLAN.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

PECO REPRESENTATIVE (JIM LEWIS) WAS ON SITE - 0930-0945 CONCERNING REMOVAL OF HIGH VOLTAGE LINE.

000731

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 23 Feb 1987 BY: John Clayton	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: 33 - 36° Wind: N - NW 10 - 13 mph Site received 1.15" snow last pm
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- removed 23 loads of soil and rubber for total weight of ~ 522 tons.	Komatsu Loader	1
	JD 977 Loader	1
	Case 580 E backhoe	1
	IH 3984 Track hoe	1
- continued shredding tires	tractor trailers	23
	steam jenny	1
	sump pump	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- guard svcs. continue - No IH technician today due to snow	drums for truck decon rinsate - 2
- transportation	plastic for lining truck beds

COMMENTS/PROBLEMS/AGREEMENTS MADE:

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE -

0007

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 24 Feb 1987 BY: John Clapperd	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: Sunny / Lt winds N 5-15mph NW Temp N 34-45°
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- removed 20 loads of soil and rubber; total weight = 422 tons	Komatsu Loader	1
	JD 977 Loader	1
	Case 580E backhoe	1
- continued shredding tires	IH 3964 backhoe	1
	RT 58A crane	1
	tractor trailers	20
	steam jenny	2
	sump pump	1
	trailer-mounted shredder	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard svcs. continue - trucking and disposal	- plastic for lining truck beds

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- Chester Water Authority excavated for hookup from 12" main to meter box.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

-NONE-

VISITORS: (Time, Representing, Comments)

Jim Lewis & Earl Lee (PECO) - 9:00 - met regarding removal of poles on site and associated wiring.

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 25 Feb 1987 BY: John Claypool	CONTRACTORS SUPERVISOR: F. Kleinhenk
LOCATION: Whole Site - Oneida, Pa.	WEATHER & TEMPERATURE: Sunny - 32-50°F Winds W-NW up to 12 mph
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- loaded 17 loads of soil and rubble total weight = 322.64 tons.	JD 977 Loader	1
	D65S "	1
	Case 580E backhoe	1
- continued tire shredding	Bobcat Loader	1
	trailer mounted shredder	1
- continued demolition of boiler building and waste shredder bldg.	IH-3884 truckhoe	1
	RT50A crane	1
	Storm jersey	6
	tractor trailers	17

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- Gaard & IH svcs. continue	- plastic & caulk for lining truck beds & sealing trailgates
- Trucking and Disposal	- cement dust for absorbing H_2O in truck beds.

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- no more demolition work on boiler building until presence or absence of asbestos has been determined

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- Karl Schuler & Charles Steinbrun (RES)
- Paul Price (REM) to discuss asbestos issues.

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 26 Feb 1987 BY: John Clayton	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Waste Site - Chester, PA.	WEATHER & TEMPERATURE:
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- loaded 2 loads of drums & soil - total weight = 39.26 tons	JD 977 Loader	1
	D 655 Loader	1
	580 E backhoe	1
- loaded 2 loads (36 tons) of demolition debris	IH 5984 backhoe	1
	Bobcat loader	1
	RT 58A crane	1
- finished shredding tires w/ rims	Steam jenny	1
	tractor trailers	
- began silt fence repairs		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IA & guard services continued	- plastic for lining truck beds
- transportation and disposal	- caulk for sealing tailgates

COMMENTS/PROBLEMS/AGREEMENTS MADE:

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

000735

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5346

DATE: 27 Feb 1987 BY: John Claypool	CONTRACTORS SUPERVISOR: F. Holzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Cloudy 32-45°
JOB NO: 0729-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- loaded 4 loads of drums & rubble total weight = 85.72 tons.	JD 977 Loader	1
	D 65 S loader	1
	580 E backhoe	1
- demonstrated shredder trailer	IH 3584 backhoe	1
	Bobcat loader	1
- continued demolition of boiler house and main shredder building.	RT 58 A crane	1
	Steam jenny	1
- continued fabrication of rubble washing units		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- guard and IH services continued	- plastic for lining truck beds
- transportation & disposal	- caulk for sealing tailgates

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- continue work on boiler house demolition

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE -

000710

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 2 March 1987 BY: John Clippard	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Pt. Cloudy - Windy (>15mph W-NW) Temp ~
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- 2 loads of scrap wood loaded out for disposal at Portville Bros. - total weight = 29.22 tons	JD 977 Loader	1
(2) loads of haz. debris loaded out for disposal at GSX - weight = 44.5 tons	D65S Loader	1
- continued fabrication of rubber washer units	IH 3984 backhoe	1
- continued demolition of shredder bldg.	580E backhoe	1
- sampled drums	Bobcat loader	1
	RT 58A Crane	1
	Steam jenny	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
-IH and guard svcs. continued	- plastic for lining truck beds - caulk for sealing tailgates

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- restoration of DRPA property leased to City of Chester on South side of bridge will be required due to damage caused by use as truck staging area.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE -

AA0737

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5349

DATE: 3 March 1987 BY: John C. Chapman P.E.

LOCATION: Wade Site - Chester, PA.

JOB NO: 0739-26-03-05

CONTRACTORS SUPERVISOR: F. Klotzbach

WEATHER & TEMPERATURE:

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- reset grid points	D 977 Loader	1
	D 65 S Loader	1
- loaded 5 loads of scrap for disposal; weight = 29.94 tons.	JH 3584 Trackhoe	1
	580 E backhoe	1
	Bobcat loader	1
- loaded 2 loads of crushed drums & soil for disposal at 65X - weight = 45.2 Tons	RT 58 A crane	1
	steam jenny	1
- continued fabrication of fire WASHOUTS		
- silt fence repairs initiated		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
TH and guard services continue	- lining for truck beds
- transportation and disposal	- caulk for sealing tailgates

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- Work plan for closing UST on 3/5/87 detailed in logbook

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE -

000738

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5346

DATE: 3-4-87 BY: R. Allen	CONTRACTORS SUPERVISOR: FRED KLOTZBACH
LOCATION: WADE SITE - CHESTER, PA.	WEATHER & TEMPERATURE:
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- HAUL OUT SCRAP	D417 LOADER	1
- CLEAN UP MISC. DEBRIS (REMAINING TIRES, CRUSHED DRUMS, ETC.)	D65S LOADER	1
- SILT FENCE REPAIR	IH 3984 TRACKHOE	1
- SOIL EXCAVATION (GRIDS 14&15)	580E BACKHOE	1
	RT58A CRANE	1
	BOBCAT LOADER	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
GUARD & IH SERVICES DEMOLITION/SCRAP HAULING	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

J. MARTINO ON SITE FOR WESTON TODAY.

CHEM-CLEAR REPRESENTATIVE COLLECTED A SAMPLE OF DEION WATER.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

STEPHEN MERRIKAN (CHESTER CITY PLANNING) DROPPED OFF LETTER RE RESTORATION OF TRUCK STAGING AREA.

0010709

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 5 March 1987 BY: John E. Claypool	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Ware Site - Chester, PA.	WEATHER & TEMPERATURE: Pt. Cloudy, High Temp ~ 45°, Lt. Winds
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- 4 loads of scrap metal loaded out for disposal, weight = 21.56 tons.	D 977 Loader	1
	D 65S Loader	1
	IH 3984 backhoe	1
- continued fabrication of rubber washing units	580E backhoe	1
	Bobcat loader	1
	RT 58A crane	1
- began pumping down underground storage tank contents - removed 1 load (5000 gallons) of waste water.	Steam jenny	1
	diaphragm pump	3
	air compressor	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard services continue - demolition transportation & disposal - wastewater T&D	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- met w/ D. Tattee, F. Klotzbach, M. Mellinger, D. Becker, R. Allen and myself to the RES change order cost estimate and initiate contract amendment.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

Bob Wayland - US EPA III
Don Becker - PADER
Dick Tattee - RES
Charles Swinburn - RES
Charles Kleeman - EPA III
Kathryn Davies - EPA III
Bonnie Guy - EPA III

AA0736

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 6 March 1987	BY: John E. Clapperton	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.		WEATHER & TEMPERATURE:
JOB NO: 0739-26-03-05		

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- 3 loads of scrap metal and debris loaded out for disposal: 39.4 tons	D977 loader	1
	D 655 loader	1
	Bobcat loader	1
- continued fabrication of rubber matting units	IH 398H backhoe	1
	RT 58A crane	1
	Case 580E backhoe	1
- finished removal of wate from WST; began removal of sludge.	Skanujenny	1
- excavation near river continues		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard svcs. continue - wastewater trans & disposal - decontamination trans & disposal	55 gallon and fiber drums for packing tank sludge - plastic for securing drum staging area.

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- sludge release in late afternoon. RES worked until ~8:00 pm to cleanup and finish emptying trucks.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

000711

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 9 March 1987 BY: John E. Clapper Jr.	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: Mostly Cloudy, Windy (variable dir)
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- 2 loads of scrap metal and debris loaded; 26.68 tons.	D977 loader	1
- continued fabrication of rubber wetting units	D 655 loader	1
	Bobcat loader	1
	IH 3984 backhoe	1
	crane.	1
	Case 580E backhoe	1
- finished removal of sludge from UST, pressure washed tank and began backfilling w/ sand.	580E hoe w/ hyd. comp.	1
	Skramm jetting	1
- excavation near river continues.		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard svcs. continue - demolition items & disposal - vac truck services	- drums for containing sludges - sand for filling tank.

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- heavy winds led to severe dust problems - RES will institute dust controls tomorrow.
- PECO started line work on/around site.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

-NONE-

VISITORS: (Time, Representing, Comments)

LORNA SHINE - EPA III - Site visit ~ 2:00 pm

0007

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 3-10-87	BY: R. Allen	CONTRACTORS SUPERVISOR: Fred Klotzbach
LOCATION: Wade Site - Chester, PA.		WEATHER & TEMPERATURE:
JOB NO: 0739-26-03-05		

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- Finished Underground Tank Work	D977	1
- Sorting & Loading Scrap	D6S	1
- Drilled Holes In Concrete Pads	Bobcat	1
- Soil Excavation	Crane	1
- Fabrication Of Rubber Washing Equipment	Backhoe *	2
	Trackhoe	1
- Removed 2 loads scrap - 17.28 tons		
- Removed 2 loads steel - 25.38 tons		
	* 1 w/Hydraulic Ram	

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
Gunnard & Ill Services	
Scrap/Demo Hauling	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

Large Area Of Concrete From Trench Was Not Was Leveled By Soil Excavation At Rear Of Site - Excavation Will Not Be Done In This Area Until A Decision Is Made On What To Do With The Concrete.

PECO Working On Removing Of Power Line.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 11 March 1987 BY: John E. Clayton IV	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Mostly Sunny Winds NE - brisk
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- removed 3 loads of scrap metal and debris - total weight = 14.71 tons.	D977 loader	1
	D655 loader	1
	Bobcat loader	1
- continued fabrication of tire washing units	Crane	1
	Case 580E backhoe	2
	Rentboe attachment	1
- began excavating new front fence	IH 3984 backhoe	1
	steam jenny	1
- began removing grind equipment and breaking pedestals		
- removed 1 load wood; 17.37 tons		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard sves continued demolition trans & disposal	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- off-site odor problem due to excavation behind guard trailer. Increased monitoring scheduled for tomorrow.

- PECO crew continues linework on-site

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- h. Nu data per logbook

- sample 0311WAD004 on North fence to be analyzed by 3:30 tomorrow.

VISITORS: (Time, Representing, Comments)

Steve Perner - RES

0007 14

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 3/12/87 BY: John Chappell

CONTRACTORS SUPERVISOR: F. Klotzbach

LOCATION: Waste Site - Cheska, Pa.

WEATHER & TEMPERATURE:

JOB NO: 0739-26-03-05

DESCRIPTION OF WORK PERFORMED:
1) CONTRACTOR

- loaded & loads crushed drums & haz. materials - 38.89 tons.
- loaded 1 load wood debris - 14.72 tons
- loaded large metal grinding equip onto SAVOY dump trailer - to be transported off-site 3/13/87.

PERSONNEL & EQUIPMENT:

DESCRIPTION	NUMBER
977 Loader	1
D65S Loader	1
Bobcat loader	1
Crane	1
Case 580 E backhoe	2
Ramhoe attachment	1
IH 3964 backhoe	1
Steam jenny	1

2) SUBCONTRACTOR:

- IH and guard svcs. continue
- Haz. Waste T&D
- Scrap wood T&D

MATERIALS: (QUANTITY, PURPOSE)

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- Fire occurred while torch cutting large equipment on SAVOY lowboy.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE -

0007115

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 13 March 1987 BY: F. Martino	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA	WEATHER & TEMPERATURE: Mostly sunny, chilly Winds NE
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- removed 3 loads of scrap metal and debris; 44.93 tons	D 977 loader	1
	D 65 S loader	1
	Bobcat loader	1
- continued fabrication of tire washers	Crane	1
	Case 580 E backhoe	2
	IH 3964 Trackhoe	1
- continued removing grind equipment and hot cutting	Trackhoe	1
	steam jenny	1
- scrapping soil near front fence		
2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)	
- IH and guard services		
- demolition transport and disposal		

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- observed monitor well outside site fence under bridge which was unlocked
- approval of levels of protection required for various site areas

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

Paul Thomas - RES corporate safety

000776

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 16 March 1987 BY: John E Clayton Jr.	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: 34-47° Sunny Winds N-NE 10-21 mph
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- Continued excavating in grids 1 & 2	977 Crawler	1
	D6T S Crawler	1
- Continued fabrication of rubber washing units	IH 3964 Excavator	1
	Crane	1
- Loaded 3 loads scrap; 41.32 tons.	bobcat (under approx)	1
	Case 580E w/ combos	1
- Finished assembling 3rd holding tank.	Case 580E	1
	Steam jenny	1
- Loaded 2 loads wood; 30.36 tons		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard svcs. continue	- garden hose for dust control
- electrical work on rubber washing units	- plastic for covering soil stockpiles

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- H&S meeting today to discuss lack of adherence to protocols

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE -

000717

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 18 March 1987 BY: John E. Clapper Jr.	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: Sunny - 40 to 60° Winds N/NW 10-15 mph
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- began excavating grid H1	977 loader	1
	D65S loader	1
- continued fabrication of tire washer	Crane	1
	I H 3984 backhoe	1
- relocated vehicle decon pad	Case 580E backhoe	2
	Ramhoe Attachment	1
- continued tank removal in office bldg.	bobcat loader	1
	steam jenny	1
	diaphragm pumps	2
- loaded loads of debris for disposal @ Pettit. - tons.	Air compressor	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guardsmen continue	- plastic sheeting for covering soils
- Electrical work to tire washers	- CaCl for dust control
- debris T&D	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- two stainless steel drums of flammable soil encountered in Grid H1 - spilled material treated w/ cement kiln dust

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE

0738

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 17 March 1987 BY: Jason E. Chappell	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: Sunny & Clear 32-51° Heavy winds - N/NW 15 mph
JOB NO: 0735-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- removed pipe insulation in wooden bldg and began removal of old tanks on basement	977 crawler	1
	D65 crawler	1
	Crane	1
	IH 3964 tractor	1
- substituted dust controls - applied CaCl2 to work zones	Case 580E backhoe	2
	Cram hoe attachment	1
	Diesel - welder repair	1
- finished 5' excavation in grid #2	steam jenny	1
- recovered center of site		
- continued fabrication fire washers		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH & guard secs. continue	- plastic for covering soil stockpiles
- debris transport & disposal - loads	- CaCl2 for dust control
- total weight =	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- broke cover slab on pipe trench w/ backhoe
- RES requested to use Chem Clean for wastewater disposal
- RES intends to use transporter for soil not included in original proposal - RES to provide qualifications.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- data on wastewater in holding tanks from Chem Clean analyses received

VISITORS: (Time, Representing, Comments)

- C. Swinburn, RES

719

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 20 MARCH 1987 BY: STAVEN/EDWARDS

CONTRACTORS SUPERVISOR: F. KLOTZBACH

LOCATION: WADE SITE - CHESTER, PA

WEATHER & TEMPERATURE: SUNNY & CLEAR; 35-55°
SLIGHT BREEZE

JOB NO: 0739-26-03-05

DESCRIPTION OF WORK PERFORMED:
1) CONTRACTOR

- LOADING AND PROCESSING TRUCK/TRAILERS WITH DEBRIS & SOIL WAS MAIN ACTIVITY (14 LOADS; 609,740#)
- SMALL AMOUNT OF EXCAVATION WORK WAS CONDUCTED AT GELDOPITS
- REMOVING RESIDUE FROM SILOS

PERSONNEL & EQUIPMENT:

DESCRIPTION	NUMBER
IH 3984 TRACKHOE	-1-
CASE 580E BACKHOE-LOADER	-1-
KOMATSU D66S F.E. LOADER	-1-
D-6 DOZER W/SCOOP	-1-
W&S HESS BACKHOE W/BREAKER	-1-
GALION CRANE *	-1-
BOBCAT INACTIVE	
* NOT USED	

2) SUBCONTRACTOR:

- IH & SECURITY GUARD SERVICES - ON SITE
- TRUCKS/TRAILERS FOR DEBRIS TRANSPORT & DISPOSAL

MATERIALS: (QUANTITY, PURPOSE)

- VISQUEEN FOR LINING TRUCKS, REST PER RES RECORDS

COMMENTS/PROBLEMS/AGREEMENTS MADE:

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

- SIMON P. WAKIN, DART SERVICES; OVERSEEING/EXPEDITING TRUCKS
- DISPATCHER FOR J. GRAY TRUCKING
- PHOENIXVILLE SAFETY AREA - MANAGER/SUPERVISOR
- PENNSYLVANIA FISH COMMISSION REPRESENTATIVE
- BOB POWELL, REG F. WESTON, INC. - 5:30 pm - SITE VISIT

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5346

DATE: 21 March 1987 BY: John Clayton	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: Cloudy, 40-45°, Windy, Lt. Rain
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- loaded 1 load soil (40,020 lbs).	IH 3964 trackhoe	1
	Case 580E backhoe	1
- electrical panels demolished	977 loader	1
	D6SS tanker	1
- continued cutting piles	Galion Crane	1
	Bobcat loader (inactive)	1
- continued fabrication of fire	W/S H550 trackhoe	1
anchor units	steam jenny	1
- excavated in grids 41, 34 and 50.		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard svcs. continued	Visqueen for lining trucks
- transport & disposal svcs.	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

IH technician relieved of duties - to be replaced next week.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- PCB data (verbal) transmitted to PER

VISITORS: (Time, Representing, Comments)

- NONE -

0000721

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 23 March 1987 BY: John Clapsaddle

CONTRACTORS SUPERVISOR: F. Klotzbach

LOCATION: Wade Site - Chester, Pa.

WEATHER & TEMPERATURE: Mostly sunny - 63°
Lt to Moderate Winds

JOB NO: 0739-26-03-05

DESCRIPTION OF WORK PERFORMED:
1) CONTRACTOR

- loaded loads of soil (±)
- removed two cyclones from rubber silo and removed #2 silo.
- continued fabrication of fire wash units
- excavated in grids 16 & 3.

PERSONNEL & EQUIPMENT:

DESCRIPTION	NUMBER
IH 3984 Backhoe	1
Case 580 E backhoe	1
977 loader	1
D655 loader	1
Galion Crane (14 ton)	1
Am Quip Crane (50 ton)	1
Bobcat	1
W/S H550 backhoe	1
Steam jenny generator	1

2) SUBCONTRACTOR:

- Guard svcs. continue
- transport & disposal svcs.

MATERIALS: (QUANTITY, PURPOSE)

- Visqueen for lining trucks

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- City of Chester contacted R. Allen re: passing of City Bart Laing property and desire to terminate use of the area as a truck staging area. R. Allen to discuss w/ dispatchers.
- No IH technician svcs. today.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE -

000720

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5346

DATE: 24 March 1987 BY: John E. Clymer	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Sunny - 60°F
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- Loaded 21 loads of soil (462.52 tons)	IH 3984 Hoeathe	1
	Case 580E backhoe	1
- Completed demolition of silos and cyclone supports	Grove crane (50 tons)	1
	Galion crane (15 tons)	1
	977 loader	1
- Loaded 2 loads of scrap steel, i.e. crushed cyclones; 9.00 tons.	D65S loader	1
	Bobcat loader	1
	W/S 11550 Hoeathe	1
- Continued excavation in grid 4	Ekanna jenny	1
- Continued fabrication of rubber washing racks		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard svcs. continued - IH supplied by in-house corporate Safety Office.	- plastic sheeting for lining truck beds
- Trans. & Disposal.	- caulk for sealing tarpaks

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- City of Chester ordered RES to cease use of boat launch property as truck staging area. Trucks staged along Flower St. and Delaware Ave. past boat launch.

- vandalism to site representative's automobile parked outside site.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

Steven Merriken, Chester City Planning } re: truck staging
Sgt. Greenwald, Chester Police Dept. }

0723

593,680

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 25 March 1987 BY: John E. Claypool Jr.	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Mostly Sunny → Partly Cloudy - 65°F Moderate to heavy winds
JOB NO: 0739-26-05-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- Finished excavating in grid 4.	IH 3514 trackhoe	1
	Case 580E backhoe	1
- Loaded 14 loads of soil; 296.8 tons	Galion Crane (15 tons)	1
	D 655 Loader	1
- Continued fabrication of rubber washing units.	977 "	1
	Bobcat " *	1
	Steam jenny	1
	W/S 4550 trackhoe *	1
	Water Truck *	1
- IH services	* not used	

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- guard, transport and disposal services continued.	- plastic sheeting for lining truck beds - caulk for sealing tailgates

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- "extra" soil stockpiled in grids 58-60 is in the way of planned excavation - RES requested approval of change order request to excavate soil underneath pile.
  - to dispose of "extra" soil so that they can continue

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

Jim Semple, RES(ES), Inc.

000722

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 3-26-87 BY: R. Allen	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester PA.	WEATHER & TEMPERATURE: Sunny, ~65-70° Light Wind
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
Soil Excavation, Loading, & Hauling (19 Loads - 416.34 Tons)	IH 3984 Trackhoe	1
Silo Disassembly	Case 580E Backhoe	1
	Galion Crane	1
	D65S Loader	1
	977 Loader	1
	H550 Trackhoe	1
	Water Truck	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
Guard Service	
Trucking	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

No H&S officer on site until Paul Thomas arrived ~1150. A safety meeting was held to discuss delineation of zones & load adjustment of trucks in hot area only. Contaminated soil in clean zone will be scraped & placed in contaminated pile.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

000725

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: March 27, 1987 BY: Wm. E. Clymer Jr.	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wake Site - Chester, PA.	WEATHER & TEMPERATURE: 47-65°F / Mostly Cloudy Light Winds NW < 5 mph
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- continued excavation in grids H and 40	IH 3784 trackhoe	1
	W/S 1455D trackhoe *	1
	Case 580E backhoe	1
- loaded out 12 loads of soil; 361 tons	Bobcat loader	1
	977 loader	1
- continued disassembling silos	D 65 S loader	1
	Water Truck	1
- continued shakedown of rubber washing unit.	steam jenny	1
	Galion Crane *	1
	* not used	

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- guard, transport and disposal svcs. continued.	- plastic sheeting for lining trucks - caulk for sealing tailgates

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- None - Data from R.F. Weston Lab re: PCB analyses of samples submitted last week: - very little PCB found. Hard copy due Monday.

VISITORS: (Time, Representing, Comments)

- NONE -

000726

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: March 30, 1987 BY: John E. Clayton Jr.

CONTRACTORS SUPERVISOR: F. Klotzbach

LOCATION: Wade Site - Chester, Pa.

WEATHER & TEMPERATURE: Partly Sunny → heavy rain 55 → 65°F

JOB NO: 0739-26-03-05

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- excavated in grid 20	IH 3984 backhoe	1
	W/S 11550 backhoe*	1
- backed out 27 loads of soil - total weight = 589.78 tons	580 E backhoe**	1
	Bobcat loader	1
	977 loader	1
- removed 1 silo section	D655 loader	1
	10 Wheel truck*	1
- rebuilt stairs throughout site	Steam jenny	1
	air compressor	1
- continued building rubber washing units - welded in conveyors	Gration Cicone	1
	* not used	
	** " " removed from site	

2) SUBCONTRACTOR:

- IH svcs. reinstituted
- Grund transport & disposal svcs. continued.

MATERIALS: (QUANTITY, PURPOSE)

- Plastic sheeting for lining trucks
- Caulk for sealing tanks
- lumber for repairing stairs

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

Paul Thomas - RES (DE), Inc. - Health & Safety oversight

000727

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: April 1, 1987 BY: John E. Clapsaddle	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Kirk Site - Chester, PA.	WEATHER & TEMPERATURE: Mostly Sunny 32 → 45°F Windy
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- excavated in grids 58, 56 and 40	IH 3564 backhoe	1
	W/S 550 " *	1
- removed silo sections (2 remain) total weight = tons	Bobcat loader	1
	977 loader	1
- continued building rubber washing units - worked on construction of workspace racks inside cylinders.	D655 loader	1
	Wake truck*	1
	Steam jenny	1
- decanted 977 loader fire - moved from site	Gation crane	
	Air compressor*	
- crushed drums and mixed into soil stockpiles		
	* not used.	

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- TH Sves continue	- plastic sheets for covering soil stockpiles; lumber for wash racks.
- Board Services continue	
- Transport " "	
- removed 2 loads wastewater	

COMMENTS/PROBLEMS/AGREEMENTS MADE: (Site resurvey initiated)

- Surveyors to record data on plane table rather than in notebooks due to possible confusion over multiple elevations for a given grid node.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

0000728

Paul Thomas - RES(DE), Inc. H&S Consultant

D. Crabtree Hartz - City of Chester - to see DEP re: Amateur problem in the City.

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: April 2, 1987 BY: John E. Claypool	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Mostly Sunny → Cloudy Windy (S-SW; 15-17mph) Temp 52-59°F
JOB NO: 0139-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- removed 21 loads of soil - total weight = 442.73 tons	977 loader*	1
	W/S 550 trackhoe*	1
	Water truck*	1
- continued plumbing on rubber washing units	Bobcat loader	1
	D655 "	1
	Galion crane	1
- continued excavation in grid 42	Air compressor*	1
	steam jenny	1
	* not used	

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard services continue - soil transport and disposal	- plastic sheets for lining truck beds - caulk for sealing tailgates - plumbing supplies for rubber washing units.

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- three drums removed from grid 42 - one contained tar-like substance (½ full), one contained mud & soil, the third contained an unknown organic substance = 300 ppm on h.Nu. Compound broke thru OVA instantly.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- NONE -

000729

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: April 3, 1987 BY: John E. Clypoff	CONTRACTORS SUPERVISOR: F. Klotzback
LOCATION: Wake Site - Cheske, Pa.	WEATHER & TEMPERATURE: Overcast → partly sunny 42-55° Winds North ~ 10mph
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- removed 7 load of soil - total weight = 279,580 lbs.	Wake truck	1
	Bobcat loader	1
	D6SS loader	1
- began operating rubber washing machine	Galion crane	1
	Air compressor*	1
	steam jenny	1
- removed 977 loader and W/S 550 backhoe from site	Hyd. Excavator	1
	* not used	

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- TH and guard services continue.	- plastic for lining truck beds
- soil transport and disposal continue.	- caulk for sealing tailgates

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- Approved site work on rubber washing unit shall be done for 4/4.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- NONE -

VISITORS: (Time, Representing, Comments)

- Charles Swinburn } RES(PS), Inc. - 1240 pm
- Karl Schuler }
- Paul Thomas RES(DE), Inc.

DAILY REPORT

WESTON MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: April 6, 1987 BY: John Claypool	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Waste Site - Chester, Pa.	WEATHER & TEMPERATURE: Cold, & Rainy
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- began demolition of the 3rd floor of the office bldg.	Water truck*	1
	2'655 loader	1
	Bobcate loader	1
- removed 2 load of scrap metal (11.42 tons)	3584 Excavator	1
	Crane	1
	Rubba washing unit's	2
- continued shakedown of rubber washing units.	Steam jenny	

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard svcs. continue	lumber for modifying feed chute to
- debris transport	rubber washing units

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- Area around bldg. demolition cordoned off using warning tape.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

Paul Thomas - RESIDE, Inc. - 1640 hrs - Safety inspection.

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: April 7, 1987 BY: John Shepard	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: WAste Site - Chester, PA.	WEATHER & TEMPERATURE: Westerly Winds 7-12 Cloudy; Temp mid 50's
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- continued demolition of office building - removal of roof from 3rd story section completed.	Water truck*	1
	Bobcat loader	1
	D65S loader	1
- backfilled grid 20	Hydraulic Excavator (3984)	1
	Galion Crane	1
	Steam jenny	1
- replumbed washing section of tire washing units. Repaired washing units after bars.	Rubber washing units	2
- 2 loads backfill received (40.65 tons)	* not used	
2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)	
- IH and guard subs. continued.	- 40.65 tons of imported backfill received @ site.	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- Crew worked until ~2030 hrs due to mechanical breakdown of rubber washing units

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

Lt. Col. Robert J. O'Hare - USAF - 1020 hrs - observation of site activities

Paul Thomas, RESIDE, Inc - 1445 hrs - site inspection/report.

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: APRIL 8, 1987 | BY: D. Todd

CONTRACTORS SUPERVISOR: F. Klotzbach

LOCATION: WADE SITE, CHESTER, PA

WEATHER & TEMPERATURE: CLEAR, SUNNY 60°F

JOB NO: 0739-26-03-05

51% R.H. 29.69" NW 12 MPH

DESCRIPTION OF WORK PERFORMED:
1) CONTRACTOR

- CONTINUED DEMOLITION OF BLDG
  3 RD FLOOR SIDE WALLS REMOVED
- REPAIRS TO RUBBER WASHER CONTINUE

PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
1 HYD EXCAVATOR (396H)	1
2 D6S CRAWLER LOADER	1
3 40 CU YD TRAILER	1
4 GALION CRANE	1
5 DUMP TRUCK	1
6 WATER TRUCK	1

2) SUBCONTRACTOR:

I.H. AND GUARD SVCS CONTINUED

MATERIALS: (QUANTITY, PURPOSE) —

COMMENTS/PROBLEMS/AGREEMENTS MADE: RUBBER WASHER UNDER REPAIR AND OUT OF SERVICE UNTIL END OF WORK DAY AT 14:45. PLAN IS TO INCREASE TRUNNEL SUPPORT TIRE SHAFTS FROM 1" DIA TO 2" DIA

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

NONE

0000733

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: April 9, 1987 BY: John E. Clay, prof. g.	CONTRACTORS SUPERVISOR: F. Holzbach
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE:
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- continued backfilling with bldg. demolition rubble.	D6SS loader	1
	Tandem axel dumptruck	1
	Water truck	1
- continued demolition of office bldg - 2nd floor removal completed.	Gallion excavator	1
	Demolition hoe/ram	1
	Bobcat loader	1
- dewatered excavations for backfilling	Steamer jersey	1
- continued repairs to rubble crushing units.		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- TH and guard services continued.	per RES' records

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- RES to use nuclear density gage for compaction testing -

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

Tom Thomas, RES(DE), Inc. - safety inspection

000734

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: April 10, 1987	BY: David Pohl
CONTRACTORS SUPERVISOR: F. Kidzbach, Mike Mellinger (acting)	
LOCATION: Wade Site, Chester, PA	WEATHER & TEMPERATURE: clear, sunny, 65-70°F, light breeze
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED:
1) CONTRACTOR

- backfilled with clean sand basement of demol. wood frame building in quad 36
- continued repairing rubber washing unit
- backfilled excavation in quads 8 & 12 with demolition rubble
- 2 loads of scrap metal left site
- continued surveying in rough grade elevations

PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
water truck	1
bobcat loader	1
D 665 Loader	1
Hydraulic Excavator	1
Galion Crane	1
Steam Jenny	1

2) SUBCONTRACTOR:

Zil and Guard Svcs continued

MATERIALS: (QUANTITY, PURPOSE)

98 truck loads of sand (395,800 lbs)
- backfill for basement of demol. building

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- A roller will be on-site Monday to compact the backfill - The PA borrow source was identified as suitable backfill and will be brought on-site Monday

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

- Grain size distribution and moisture/density relationships of borrow sources

VISITORS: (Time, Representing, Comments)

Paul Thomas, RESIDE, Inc. - safety inspection

000735

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: April 11, 1987 BY: John Claypool	CONTRACTORS SUPERVISOR: F. Klotzbach (Wade White, acting)
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Mostly Sunny 60-75°F Moderate Breeze
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- continued repairs to rubber washing units	Foreman	1
	Laborers	3
	Electricians	2
- relocated electrical panels for rubber washing units to modern building constructed outside office building.	Gation Crane	1
	Bobcat loader	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- guard services continued	per RES records

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- only work authorized was repair to rubber washing units -

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

NONE

000726

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: April 3, 1987	BY: John E. Clapper
LOCATION: Wade Site - Chester, PA.	CONTRACTORS SUPERVISOR: F. Klotzbach
JOB NO: 0735-26-03-05	WEATHER & TEMPERATURE: Overcast to partly sunny Windy

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- continued repairs to rubber washing ramp. began relocating washwater piping tanks closer to washing operation.	330A hydraulic excavator	1
	D65S loader	1
	Galion Crane	1
	Bobcat skid	1
- continued backfilling in grid #1.	Steamer jersey	1
	Water truck	1
- removed 5 loads of wastewater for disposal @ Cocum Creek (19.56 tons).		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard services continued.	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

DER notified of incident that occurred on 4/2/87 during demolition activities.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

Mr. Paul Thomas, RESIDE, Inc. - Safety Inspection.

1400 hrs

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: April 14, 1987 BY: John E. Clapper Jr.	CONTRACTORS SUPERVISOR: J. Semple (Acting)
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: Mostly Sunny → Sunny
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- continued repairs to rubber wedding units.	3984 hyd. excavator	1
	D 655 loader	1
- continued relocation of wastewater holding tanks.	Case 1102 Vibratory Roller	1
	Bobcat Loader	1
- backfilled in grids 2, 3, 4, 18, 20, 34 and 50.	Carlton Crane	1
	Water truck	1
- removed 1 load wood & debris - disposal at Pedrille		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- I H and guard svcs. continued.	33 loads gravel - 1,400,820 lbs.

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

Mr. Paul Thomas, RES(DE), Inc. - Safety inspection and investigation into incident of 4/9/87.

000738

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 4-15-87 BY: M. Alk	CONTRACTORS SUPERVISOR: F. KLOTZBACH
LOCATION: WADE SITE - CHESTER, PA.	WEATHER & TEMPERATURE: 50° PARTLY CLOUDY
JOB NO:	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- REPAIR TIRE WASHER	CASE 1102 ROLLER	1
- SCRAP LOADING, MISC. CLEANUP	GALION CRANE	1
- CLEANUP OF RUBBER FINES AT SILO PEDESTALS	DIGGS LOADER	1
	FH TRACKHOE	1
	BOBCAT LOADER	1
	WATER TRUCK	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)

COMMENTS/PROBLEMS/AGREEMENTS MADE:

BACKFILLING HAS CEASED UNTIL NRS GETS DECISION ON REQUEST FOR 85% COMPACTION.

WESTON OVERSIGHT HAS STOPPED AS OF TODAY.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 4-16-87	BY: R. Allen	CONTRACTORS SUPERVISOR: F. Klitzbach
LOCATION: Wade Site - Chesterl, Pa.		WEATHER & TEMPERATURE: Cloudy, Some Rain ~45°
JOB NO:		

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- Excavate Grid 33 To Req'd Depth	JH Trackhoe	1
- Clean Up Rubber Fines	D6S Loader	1
- Repair Tire Washer	Galion Crane	1
- Load Scrap	Bobcat	1
	Water Truck	1
	Case Roller	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)

COMMENTS/PROBLEMS/AGREEMENTS MADE:

Tire Washer Ran For ~ 30-45', Cleaned Small Amt. Tires, But Then Broke Down (Conveyor).

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

C. Swindell, C. Shuler (RES)

0007211

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 4-17-87	BY: R. Allen	CONTRACTORS SUPERVISOR: F. Klotzbach
LOCATION: Wade Site, Chester PA.		WEATHER & TEMPERATURE: Rain 45-50°
JOB NO:		

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
Tire Washer Repair	Trackhoe	1
	D6G5 Loader	1
	Crane	1
	Bobcat	1
	Water Truck	1
	Roller	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)

COMMENTS/PROBLEMS/AGREEMENTS MADE:

Too Much Rain For Other Work

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

C. Shuler, C. Swinburn, J. Robbins, T. Ellendoff of RES were here for most of the day – apparently had a meeting with F. Klotzbach & J. Semple

11/07/11

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE:	BY:	CONTRACTORS SUPERVISOR:
27 APR 87	DAVID S MARTIN	F. KLOTZBACK

LOCATION: WADE SITE - CHESTER, PA.

WEATHER & TEMPERATURE: SUNNY 65°

JOB NO: 0739-26-03-05

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- LOADED SHREDDED TIRES	D6L6 LOADER	1
	BOBCAT LOADER	1
- LOADED 11 DRUMS FOR OFF SITE INCINERATION		

2) SUBCONTRACTOR:

IH AND GUARD SERVICES.

MATERIALS: (QUANTITY, PURPOSE)

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

NONE

0007

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA. 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE:	BY:	CONTRACTORS SUPERVISOR:
28 APR 87	DAVID S. MARTIN	F. KLOTZBACH

LOCATION: WADE SITE - CHESTER, PA

WEATHER & TEMPERATURE: RAIN MOST OF THE DAY 50° - 55°

JOB NO: 0739-26-03-05

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- LOADED REMAINING SHREDDED TIRES OFFSITE (4 LOADS)	TD55 LOADER	1
	BOBCAT LOADER	1
- DELIVERED 4 LOADS OF SOIL SPREAD 3 AROUND TRUCK STAGING AREA.	GRALION TRAC. LOADER CRANE	1
	PNEUMATIC JACK HAMMER (CHICAGO)	1
- DISMANTLED 70% OF TIRE WASH STATION - REMOVED CYLINDERS, CONVEYOR AND FRAMES.		
- DEMOLISHED TWO CONCRETE PEDESTALS AND ONE EQUIPMENT SLAB PAD #4		

2) SUBCONTRACTOR: IH - SECURITY ON SITE

MATERIALS: (QUANTITY, PURPOSE) 4 LOADS OF FILL SOIL 99,560 lbs PA GRAVEL

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

NONE

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5346

DATE: 29 APR. 87	BY: DAVID S. MARTIN
CONTRACTORS SUPERVISOR: F. KLOTZBACH	
LOCATION: WADE SITE - CHESTER, PA.	WEATHER & TEMPERATURE: CLOUDY (MORNING) SUNNY (AFTERNOON) 60°-65°
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED:
1) CONTRACTOR

- REMOVED REMAINING PIECES OF TIRE WASH
- HAUL ONE LOAD (1) OF HAZ WASTE
- BROKE UP SLU PAD #3 & HALF OF #2
- STARTED STAKING AT RIVER GRADE CONTOURS
- DUG TO LOCATE DRAIN FROM SUMP TO RIVER FOUND IT IN GOOD

PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
D655 LOADER	1
BOBCAT LOADER	1
TRAC HOE	1
PNEUMATIC JACK HAMMER	1

2) SUBCONTRACTOR:
IH & SECURITY

MATERIALS: (QUANTITY, PURPOSE)
1 HAUL OF HAZ WASTE 39,000 lbs OFF SITE

COMMENTS/PROBLEMS/AGREEMENTS MADE:

F. KLOTZBACH WILL BE OFF SITE THURSDAY 30TH APRIL TILL MONDAY TUESDAY 5TH MAY 87. SIGNATURE WILL FILL IN FOR HIM FRED WILL PUT IT IN WRITING.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

HOME

VISITORS: (Time, Representing, Comments)

RON HEEFER - EPA - 1905 STOPPED BY TO SEE THE SITE F. KLOTZBACH & D. MARTIN MET WITH HIM.

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5346

DATE: 4/30/87	BY: DAVID POHL	CONTRACTORS SUPERVISOR: F. KLOTZBACH Mike Mellinger (acting)
LOCATION: WADE SITE, CHESTER, PA		WEATHER & TEMPERATURE: SUNNY - PARTLY SUNNY - WINDY 60°-65° F
JOB NO: 0739-26-03-05		

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- Continued to break up slabs in grid blocks 7 and 8.	D65S loader	1
- Backfilled broken up concrete into excavation in grid blocks 55, 56 and 40. (see comments)	Bobcat Loader	1
	Track Hoe	1
	Pneumatic lack Hammer	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
IH & Security	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

Large 4-5 ft width and greater chunks of concrete were placed in the excavated areas in grids 55, 56 and 40. I discussed this with Mike Mellinger and recommended that the broken up concrete placed in the excavation should not exceed 1'-2' in width and should be mixed with clean soil.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: May 1, 1987 BY: James E. Clapperton	CONTRACTORS SUPERVISOR: Jim Semple (acting)
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Mostly Sunny 44-65° Winds W to SW 7-12 mph
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- used Schramm backhoe to break Northern most machinery pedestal.	D66S Loader	1
	Bobcat Loader	2*
	IA 3384 excavator	1
	Schramm backhoe w/ pneumatic hammer	1
- excavated pipe near River to close per RES proposal (see below).	water truck	1
	Supervisor	1
- cleaned up metal scraps and wood around site.	Foreman	1
	Laborers	2
	Operators	2
	*one unit under repair	

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard services continue.	per RES records

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- excavation of pipe near river resulted in partial collapse of the western most site fence as the sidewalls sloughed into the hole. An oily, black liquid was encountered in the pit.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

NONE

000746

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE:	BY:	CONTRACTORS SUPERVISOR:
4 MAY 87	DAVID S. MARTIN	MIKE MELLINGER

LOCATION: WADE SITE - CHESTER, PA.

WEATHER & TEMPERATURE: HEAVY RAIN ALL DAY 50°-55°

JOB NO: 0739-26-0305

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- USED PNEUMATIC JACKHAMMER TO BREAK UP CONCRETE RUBBLE IN GRIDS 41 & 42, AND MACHINERY PEDESTALS.	SCHRAMM RACHE W/ PNEUMATIC HAMMER	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
IH AND GUARD SERVICES	—

COMMENTS/PROBLEMS/AGREEMENTS MADE:

DUE TO HEAVY RAIN NO OTHER WORK WAS DONE.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

NONE

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 5 MAY 87 BY: DAVID S. MARTIN	CONTRACTORS SUPERVISOR: F. KLOTZBACH
LOCATION: WADE SITE - CHESTER PA	WEATHER & TEMPERATURE: RAIN OFF & ON 55-60°
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- EXCAVATED APPROX 85-90 FT OF BURIED PIPE	HYDRAULIC EXCAVATOR	1
- JACKHAMMERED EQUIPMENT FOUNDATIONS	SCHRAMM PNEUMATIC JACKHAMMER	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
IH & SECURITY	NONE

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

CHARLES SCHWINBURN OF ROLLINS ONSITE FOR MEETING WITH F. KLOTZBACH AND INTRODUCED HIMSELF AND AGENT TEST COMPACTION WAIVER.

AA0713

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE:	BY:	CONTRACTORS SUPERVISOR:
6 MAY 87	DAVID S. MARTIN	F. KLOTZBACH / M. MELLICAN

LOCATION: WADE SITE - CHESTER PA
JOB NO:

WEATHER & TEMPERATURE: SUNNY 60-65°

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- BRINGING TIRE SHREDDER ON SITE AND FINISHED SHREDDING TIRES.	HYDRAULIC EXCAVATOR	1
- JACKHAMMERED CONCRETE PADS.	SCHRAMM PNEUMATIC JACKHAMMER	
- EXCAVATED BURIED REINFORCED CONCRETE PIPE (RCP)	KOMATSU LOADER	1
- HAULED OFFSITE DEBRIS TO LOCAL FILLED DRUMS.	BOBCAT LOADER (CUTTER REPAIR)	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
I.H. & SECURITY.	1 TRUCKLOAD OF DRUMS (CLOTH)

COMMENTS/PROBLEMS/AGREEMENTS MADE:

THE BURIED PIPE (RCP) WAS DUG UP FROM THE RIVER BACK TOWARDS THE SUMP. THE PIPE DID NOT CONNECT TO THE SUMP AND REMAINED APPROX 10 FT FROM THE SUMP. IT APPEARS TO HEAD TOWARDS THE OLD BUILDING IN GRIDS 26 & A2. RES DUG COMPLETELY AROUND THE SUMP TO A DEPTH OF ABOUT 10-12 FT BELOW RIM SURFACE AND DID NOT ENCOUNTER A DRAIN PIPE. THE ONE THAT WAS DUG UP WAS APPROX 6-8 FT BELOW THE SURFACE, AS IT PASSED BY THE SUMP. RES STOPPED HERE.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

NONE

000779

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE:	BY:	CONTRACTORS SUPERVISOR:
7 MAY 87	DAVID S. MARTIN	NONE

LOCATION: WASTE SITE - CHESTER PA.

JOB NO: 0739-26-03-05

WEATHER & TEMPERATURE: CLEAR 75°

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- REPAIRED EQUIPMENT	HYDRAULIC EXCAVATOR	1
	KOMATSU LOADER	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
IT SECURITY	NONE

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

NONE

000730

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE:	BY:	CONTRACTORS SUPERVISOR:
8 MAY 87	DAVID S. MARTIN	F. KLOTZBACH

LOCATION: WADE SITE, CHESTER, PA.

JOB NO: 0739-26-03-05

WEATHER & TEMPERATURE: CLEAR 70°

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- GRADING AND LEVELING PREPING DAYS GRADING WORK WHERE PIPE EXCAVATION OCCURRED.	KOMATSU LOADER	1
- EQUIPMENT REPAIR		

2) SUBCONTRACTOR: TH & SECURITY.

MATERIALS: (QUANTITY, PURPOSE) NONE

COMMENTS/PROBLEMS/AGREEMENTS MADE:

F. KLOTZBACH INDICATED HE WOULD START GRADING WORK ON MONDAY 11 MAY 87

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

CARL SCHULTZ - (RRS) DANIEL BECHER (DRR) SITE VISIT DISCUSSION TO DISCUSS CLOSURE GRADING.

000751

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE:	BY:	CONTRACTORS SUPERVISOR:
11 MAY 87	DAVID S. MARTIN	F. KLOTERASH

LOCATION: WAGE SITE, CHESTER PA.

JOB NO: 0739-26-03-05

WEATHER & TEMPERATURE: 80°-85° CLEAR

DESCRIPTION OF WORK PERFORMED:
1) CONTRACTOR

- STARTED BACKFILLING GRIDS 41, 42 & 58
- NEW PROCTOR TESTS ARE TO BE RUN ON THE SOIL.
- WATER TRUCK USED FOR DUST CONTROL.
- GRIDS 15 & 16 WERE ROLLED

PERSONNEL & EQUIPMENT:

DESCRIPTION	NUMBER
KOMATSU LOADER	1
CASE ROLLER	1
HYDRAULIC EXCAVATOR	1
WATER TRUCK	1

2) SUBCONTRACTOR:

IH & SUBCONTRACTED SECURITY GUARDS, NTH RUSSELL ENGINEER FOR COMPACTION TESTING.

MATERIALS: (QUANTITY, PURPOSE)

27 TRUCKS OF FILL 1,976,320 lbs.

COMMENTS/PROBLEMS/AGREEMENTS MADE:

COMPACTION ON THE LIFTS WERE 88-90, WAITING FOR NEW PROCTOR TESTS ON SOIL WILL INTERPOLATE NUMBERS.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NTH RUSSELL TO RUN NEW PROCTOR TESTS (ONE PT.) ON SOIL DELIVERED

VISITORS: (Time, Representing, Comments)

000732

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE:	BY:	CONTRACTORS SUPERVISOR:
12 MAY 87	DAVID S. MARTIN	F. KLOTZBACH

LOCATION: WADE SITE - CHESTER PA.

JOB NO: 0739-26-03-05

WEATHER & TEMPERATURE: 79° CLOUDY - WARNING RAIN & LIGHTING AFTER 2 PM

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- BACKFILLED AND REGRADED GRIDS 3, 4, 19, 20, 40, 41, 42 57 & 58.	KOMATSU LOADER	1
- SURVEYORS LAID OUT CONTROL STAKES ON E1800 - 1860 FOR RIGHT GRADE.	CASE ROLLER	1
- DISMANTLED AND PUMPED OUT DECON WASH TUBS.		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
IH SECURITY, NTH RUSSELL, DAMON SURVEYORS.	1,948,910 lbs OF BACKFILL

COMMENTS/PROBLEMS/AGREEMENTS MADE:
F. KLOTZBACH INDICATED THE SWALE ALONG THE WEST FENCE INTO THE PARKING ON FLOWER ST FROM E1350 TO ABOUT E1475 AND THE SWALE CUT ACROSS A CONCRETE SLAB BETWEEN E1600 AND E1800. F. KLOTZBACH INDICATED TO ME A PREVIOUS AGREEMENT TO EXCAVATE ONLY DOWN TO CONCRETE SLABS IN THESE AREAS AND AGREE WITH J. Clayton I TOLD HIM WE MAY SLOPE THE SWALES AWAY FROM FLOWER ST AND CLOSER TO THE FENCE RESPECTIVELY.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 13 MAY 87 BY: DAVID S. MARTIN	CONTRACTORS SUPERVISOR: M. MELLIGAN
LOCATION: WADE SITE - CHESTER PA.	WEATHER & TEMPERATURE: 70° CLOUDY
JOB NO: 0729-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- BACKFILLING IN GRIDS 25, 26, 27, 29, 40, 41, 42, 56, 57 & 58.	KOMATSU LOADER	1
- REMOVED DECON PADS FROM THE END OF PLANT ST.	CASE ROLLER	1
- LOADED SCRAP METAL INTO THE DUMPSTER	CASE CHEVY ROLLER	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
TH, SECURITY GUARDS; NTH RUSSELL	AT TOTAL LOADS OF FILL 1,810,120 LBS

COMMENTS/PROBLEMS/AGREEMENTS MADE:
DONALD BARCLAY CALLED TO SEE IF I HAD COMMENTS ON THE LETTERS HE RECEIVED FROM (RES,) IES) ON THE SOIL PILE AND SAMPLE LOCATION. - I TOLD HIM F. KLOTZBACH AND I DISCUSSED THESE ITEMS AND I REVIEWED THE PLAN TO IT BEING SENT AND AGREE WITH WHAT WAS DISCUSSED. W/ THE FRED KLOTZBACH ON 12 MAY 87

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)
NTH RUSSELL SUBMITTED A PROCEDURE according to Nuclear Density Measurement Manual to adjust for mica in the soils, I agreed with this procedure.

VISITORS: (Time, Representing, Comments)

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 14 MAY 87	BY: DAVID S. MARTIN
CONTRACTORS SUPERVISOR: M. MCELLIGAN	
LOCATION: WADE SITE - CHESTER, PA.	WEATHER & TEMPERATURE: 70° CLEAR
JOB NO: 0739-220-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- WEIGHED SPREAD LIFTS IN GRIDS 21-29, 37-45	KOMATSU LOADER	1
- ROUGHED IN THE SWALE ALONG THE WEST FENCE LINE	CASE ROLLER	1
	CASE BACKHOE	1
	TRAC HOE	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
T+H, SECURITY GUARD, MH RUSSELL	AS TAKEN AT BASELL 1,976,160

COMMENTS/PROBLEMS/AGREEMENTS MADE:
- UNLOADED BURIED DRUM IN GRID 59 (A) TAPED OFF AN AREA AROUND THE DRUM. TALKED WITH MIKE MCELLIGOTT AT 1652 ABOUT TESTING DRUM IN THE MORNING, SO WE WOULD KNOW RESULTS BY THE TIME THE SOIL/WASTE PILE IS SENT OFF SITE.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)
COMPACTION TESTS ARE COMING UP ABOVE 90% PR. THOSE FOR BELOW WILL BE RECOMPACTED.

VISITORS: (Time, Representing, Comments)
TOM PEASE (WESTON)
FRAN COSTANZI (DEEP)
JOE TARANTINO (WESTON) 1100 7.5%

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 15 MAY 87	BY: DAVID S. MARTIN
CONTRACTORS SUPERVISOR: M. MELLIGAN	
LOCATION: WADE SITE - CHESTER PA.	WEATHER & TEMPERATURE: RAIN 70'-75'
JOB NO: 0739 - 2N 03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- EXCAVATED TRENCH THEN	HYDRAULIC EXCAVATOR	1
LANDFILL AREA IN GRIDS 17,18 F2	CASE ROLLER	1
	KOMATSU LOADER	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
IH, SECURITY, NTH RUSSELL	10 TRUCKS OF FILL 3969, 240 lbs

COMMENTS/PROBLEMS/AGREEMENTS MADE:
AT BOB ALLENS DIRECTION MIKE MELLIGAN AND I [redacted] INSTRUCTED THE OPERATOR TO EXCAVATE TRENCHES IN GRIDS 17,18 F2 TO LOOK FOR SAND SEAMED WITH A DIESEL FUEL TYPE SMELL. THE EXCAVATION COULD ONLY SET UP IN ONE PLACE. THE BUCKET MADE A TRENCH 20 FT LONG AND 10'-12' WIDE. AFTER A FEW TRENCHES WERE DUG 80% - 85% OF THE AREA WAS EXCAVATED. THE REMAINING 15% WAS REMOVED AND FILLED AGAIN.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

* NTH RUSSELL ENGINEER LEFT EARLY DUE TO RAIN AND NO COMPACTION BEING DONE.

* I SURVEYED STAKES AT M. MELLIGANS REQUEST FOR GRADE CONTOURS.

VISITORS: (Time, Representing, Comments)

J SIMPLE (TCS)
JOE WORKLEY (PEC) ABOUT ELECTRICAL EQUIPMENT

000736

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 18 MAY 87	BY: DAVID S. MARTIN
CONTRACTORS SUPERVISOR: M. MELLINGER	
LOCATION: WADE SITE - CHESTER PA.	WEATHER & TEMPERATURE: 88° SUNNY
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- ROUGHTED IN SWALE ON SOUTH SIDE FENCE LINE	KOMATSU LOADER	1
	CASE ROLLER	1
	CASE BACK HOE	1
- DUMPED AND SPREAD EAST SIDE OF SITE.	HYDRAULIC EXCAVATOR	1
- CLEANED RUBBLE FROM SWALES. PUT CONCRETE RUBBLE IN GRID 17 A.		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
IH, SECURITY, NTH RUSSELL	64 TRUCKS OF BACKFILL 2,240,640 lbs

COMMENTS/PROBLEMS/AGREEMENTS MADE:

AGREED WITH M. MELLINGER TO DEPOSIT RUBBLE IN GRID 17A ON THE CLAY TO STABILIZE THE BASE BEFORE BACKFILLING.

SURVEYED COMPACTION LIFTS FOR NTH RUSSELL AT M. MELLINGERS REQUEST.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

000754

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE:	BY:	CONTRACTORS SUPERVISOR:
19 MAY 87	DAVID S. MARTIN	M. MELLINGER

LOCATION: WASTE SITE CHESTER PA.

JOB NO: 0739-26-03-05

WEATHER & TEMPERATURE: RAIN 60°

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- HAUL WASTE/SOIL PILE OFFSITE	KOMATSU LOADER	1
	CASE BACKHOE	1
- DRESSING UP SWALE ALONG NORTHERN FENCE LINE	CASE ROLLER	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
IH, SECURITY	20 HAUL TRUCKS 692,140 lbs

COMMENTS/PROBLEMS/AGREEMENTS MADE:

(RES) REMOVED THE SUBJECT WASTE/SOIL PILE ALONG WITH MOST OF A SMALLER DEBRIS PILE GENERATED BY THE EXCAVATION OF THE SWALES.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

000758

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 20 May 1987 BY: John Clampool	CONTRACTORS SUPERVISOR: M. Mellinger
LOCATION: Wade Site, Chester, PA.	WEATHER & TEMPERATURE: Rain - 55°
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- removed 10 loads of debris/soil for disposal at Petrillo's (383,500 #).	D65S Loader	1
	Case Backhoe	1
	Case Roller*	1
	D6 Dozer*	1
	Dump Truck*	1
	*Not Used	

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- EH & Security continue - debris transport and disposal	See RES' Records

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

NONE

000759

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 21 May 1987 BY: John Clapper	CONTRACTORS SUPERVISOR: M. Mellinger
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Cloudy → Mostly Sunny mid 70's
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- removed 1 load scrap metal (? tons) for disposal at Camden Scrap Metal.	Komatsu D66S Loader	1
	Komatsu D65E Dozer	1
	Case Roller *	1
	Case Backhoe	1
- removed 5 loads debris/soil for disposal at Petrillo's (45.3 tons).	Dump Truck *	1
	Pumps	2
- dressed swale along southern flank of site		
- spread soil to promote drying	* Not used this day	
2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)	
- TH and security continue - debris transport and disposal	Per RES' Records	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

Karl Shulter - RES(PS) Inc.

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 22 MAY 1987 BY: John E. Clayton Jr.	CONTRACTORS SUPERVISOR: M. Mellinger
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: Hazy → Pt. Sunny 65° → 75°
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- entire day spreading existing piles of select fill and compacting. Also spread mud & wet soil to promote drying.	D66S Loader	1
	D6S Dozer	1
	1102 Roller	1
	580 Backhoe	1
	Dump Truck	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and guard services - compaction testing	Per RES' Records

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

Compaction data per NTH/Russel logs

VISITORS: (Time, Representing, Comments)

NONE

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 26 MAY 1987 BY: JOHN D. PAULING	CONTRACTORS SUPERVISOR: M. MELLINGER
LOCATION: WADE SITE - CHESTER, PA.	WEATHER & TEMPERATURE: OVERCAST (A.M.) ⇒ OVERCAST (P.M.) 65 °F ⇒ 70 °F
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
• SPREAD FILL TO GRADE SWALE ALONG EAST SIDE OF SITE	D6S	1
• COMPACT WITH ROLLER CENTRAL AREA OF SITE AND SOUTH SIDE OF SITE	D6SG	1
	1102 ROLLER	1
	580 BACK HOE	1
	DUMP TRUCK	1
2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)	
IH AND GUARD SERVICES COMPACTION TESTING, NTH RUSSEL PAMOA ASSOCIATES	SELECT FILL 2,319,260 # - 50 TRUCKS	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

COMPACTION DATA PER NTH / RUSSEL LOGS

VISITORS: (Time, Representing, Comments)

NONE

7/62

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5346

DATE: 27 MAY 1987 | BY: JOHN D. PAULING

CONTRACTORS SUPERVISOR: M. MELLINGER / F. KLOTZBACH

LOCATION: WADE SITE - CHESTER, PA

WEATHER & TEMPERATURE: OVERCAST (A.M.) DRIZZLE → OVERCAST 60°F 70°F

JOB NO: 0739-26-03-05

DESCRIPTION OF WORK PERFORMED:
1) CONTRACTOR

- SPREAD FILL ON NORTH SIDE OF SITE.
- COMPACT FILL ON NORTH SIDE OF SITE.
- MOVE DRUMS (STEEL, ONLY) TO W. SIDE OF SITE

PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
D66S, LOADER/BACKHOE	1
D65E, DOZER	1
1102, ROLLER	1
580 BACKHOE	1

2) SUBCONTRACTOR:

IH AND GUARD SERVICES
NTH RUSSEL
DAMON ASSOC. (AFTERNOON)

MATERIALS: (QUANTITY, PURPOSE)

NONE

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- RES. PER F. KLOTZBACH STATED THAT NO HOLES WILL BE DRILLED IN R.C. PAD IN GRIDS B AND 9 EL. 8.9'.
- RES. PER F. KLOTZBACH REQUESTED INFO. AS TO WHERE TO DISPOSE OF OIL SOAKED SOIL FROM D.E.R.
- STEEL DRUMS MOVED FROM N. SIDE OF SITE TO W. SIDE NEAR FLOWER ST. INSIDE FENCE LINE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

COMPACTION DATE PER NTH / RUSSEL LOGS

VISITORS: (Time, Representing, Comments)

NONE

0703

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 5/28/87	BY: JOHN D PAVLINA	CONTRACTORS SUPERVISOR: D. RIELLINGER
LOCATION: WADE SITE - CHESTER, PA.		WEATHER & TEMPERATURE: OVERCAST A.M. — SUNNY P.M. 65°F 80°F
JOB NO: 0738-26-03-05		

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
• SPREAD FILL AND GRADING ON SOUTH	DOZ LARGE	1
SIDE OF SITE	DOZE SMALL	1
• EXCAVATION AROUND MANHOLE	120 ROLLER	1
AND MAIN	580 BACK HOE	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
ENVIRO GUARD SERVICES	SELECT BACKFILL 1,175 C.Y.
CANON ASSOCIATES	
NTH RUSSEL	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

COMPACTION DATA PER NTH RUSSEL LOGS

VISITORS: (Time, Representing, Comments)

RAB ROLLER - O.E.P.

1104

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 5/29/87	BY: [illegible]	CONTRACTORS SUPERVISOR: [illegible]
LOCATION: LANE SITE - CHESTER, PA.		WEATHER & TEMPERATURE: SUNNY AM 75°F — SUNNY PM 85°F
JOB NO: 0759-24-03-05		

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
• CLEAN SCUM AND OIL FROM [illegible]	CREW	1
[illegible] SITE OPS TO FURTHER	CREW	1
[illegible] ON WEST SIDE OF SITE [illegible]	1 1/2 TON	1
FINISH WELL 6 OPERATION	SAND BLASTER	1
• BEGINNING [illegible] CONSTRUCTION OF		
[illegible] AND CENTRAL POND		
OF SITE		
• REMOVE ALGAE FROM POND		
AT FENCE AT WEST SIDE		
OF SITE USING 6 OPERATORS		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
[illegible] GENERAL SERVICE	CRUSHED MATERIAL 411 [illegible]
NEW RUSSEL	
CONN VEGAS	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- [illegible] WITH [illegible] TODAY [illegible] FOR [illegible]
  [illegible] ROOM IS TO [illegible] BE [illegible]
  [illegible] OF [illegible]
- [illegible] RECEIVED [illegible] COMPANY [illegible]
  [illegible] OF [illegible]

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

CONCRETE CYLS [illegible]

VISITORS: (Time, Representing, Comments)

[illegible]

[illegible] 765

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS

WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 1 JUNE 1987	BY: JOHN C. [illegible]
CONTRACTORS SUPERVISOR: [illegible]	
LOCATION: [illegible] SITE CHESTER PA.	WEATHER & TEMPERATURE: [illegible] (A.M.) → [illegible] 75°F [illegible]
JOB NO: 0789-27-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
• REMOVE DRUMS AND [illegible] FROM	[illegible]	
[illegible] SIDE OF SITE [illegible]	[illegible]	
[illegible] WEST SIDE OF SITE	[illegible]	
[illegible] FENCE [illegible]	[illegible]	
[illegible]		
• [illegible] FILL [illegible]		
[illegible] SIDE [illegible]		
[illegible] 2 PHASE II.		
• [illegible]		
[illegible] SIDE OF SITE.		
• [illegible] WEST SIDE OF		
[illegible]		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
[illegible]	[illegible] FILL [illegible]
[illegible]	
[illegible]	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

[illegible]

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

[illegible]

VISITORS: (Time, Representing, Comments)

[illegible]

[illegible]766

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 2 June 87	BY: John Claypool Jr.
CONTRACTORS SUPERVISOR: F. Klotzbach	
LOCATION: Wade Site - Chester, Pa.	
WEATHER & TEMPERATURE: Cloudy/Lt. Rain → Mostly Sunny 65 - 87°	
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- completed fence repairs at N-1000, E-1430 and at East of site. Fence repairs @ SE corner of site initiated.	Komatsu Dozer (65E)	1
	580 Backhoe	1
	Schramm Pneumatractor	1
	1102 Roller	1
	D66S Loader	1
- continued placement & compaction of ML fill material below grid E-1400.	Operators	3
	Supervisors	2
- broke drainage holes in vicinity of exposed slab (N-1010 → N1040, E-1230 to E1290).		
2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)	
- guard svc. continues	32 loads fill (ML) 1,431,000 #	
- I-H technician svc. continues		
- trucking continues		

COMMENTS/PROBLEMS/AGREEMENTS MADE:

Project meeting per RES minutes.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

Compaction tests for 6/2 all exceeded 90% spec (see NTH/Russell results).

VISITORS: (Time, Representing, Comments)

Steve Petrucci, RES (ES), June 2:20 p.m.

DAILY REPORT

WESTON — MANAGERS — DESIGNERS/CONSULTANTS

WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 3 JUNE 1987
BY: JOHN C PAULING
CONTRACTORS SUPERVISOR: [illegible]
LOCATION: WADE SITE CHESTER, PA
JOB NO: 0759-26-02-05
WEATHER & TEMPERATURE: [illegible] (AM) [illegible] OVERCAST [illegible] 65°F 75°F

DESCRIPTION OF WORK PERFORMED:
1) CONTRACTOR

- PLACING [illegible] FILL SOUTH OF 1950 LINE AND COMPACTING
- GRADE AND COMPACT SLOPE ON EAST SIDE OF SITE IN GRIDS 56 [illegible]
- BREAK UP SLAB AND [illegible] IN [illegible] IN GRIDS 35 [illegible] AND 10
- DIG TEST HOLE IN [illegible] TO SHOW THAT CONCRETE HAS BEEN REMOVED
- FENCE REPAIR OF WEST & SOUTH

PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
DOZER 6?E	
BACKHOE 580	
[illegible]	
LOADER [illegible]	
OPERATORS	2
SUPERVISORS	2
PNEUMATIC TRACTOR	1

2) SUBCONTRACTOR:

[illegible] GUARD SERVICE
WITH RUSSEL
[illegible]

MATERIALS: (QUANTITY, PURPOSE)

[illegible]

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- [illegible]
- 2 TEST HOLES IN GRID 36, CONCRETE IN GRID [illegible]
- 7 DRUMS [illegible] IN #10, 2' [illegible] GRID,
- FENCE REPAIRS COMPLETE
- MEETING [illegible] FOR 9:00 AM [illegible]

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

COMPACTION TEST RESULTS PER [illegible] RUSSELL LOGS

VISITORS: (Time, Representing, Comments)

[illegible]

0007?08

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 4 JUNE 1987	**BY:** DAN C PARMA	**CONTRACTORS SUPERVISOR:** M MILLER
LOCATION: WCC SITE CHESTER, PA.		**WEATHER & TEMPERATURE:** CLOUDY 70's - CONVERT TO SUN
JOB NO: 0138-26-05-05		

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
• SAMPLE TRANSFORMER AND PUMP	DRUM SAMPLER	1
IN ON-SITE INSPECTION	BACKHOE OPR	1
• CUT DRUMS READY FOR SAMPLE	BACKHOE	1
WORK DRUMS INTO CUT GRID	4 MAN CREW	1
• REMOVE CHAIN FENCE ON WEST	CREW CHIEF	4
END OF SITE SECTION COMPLETE	SAFETY OFF	1
• PUT FINISHED CONCRETE PATCH		
AT SOUTH SIDE OF SITE		
BACKFILL UP TO SUBGRADE		
• MOVE SAFETY CHECK TO SOUTH		
OF R.R.C. PROPERTY		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
E-W SOIL SAMPLING	
NE DRILL	
CAPPY PUMPING	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

VISITORS: (Time, Representing, Comments)

WCC769

DAILY REPORT

WESTON — MANAGERS / DESIGNERS/CONSULTANTS

WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 5 JUNE 1987	BY: JOHN D. PAULING [illegible]
CONTRACTORS SUPERVISOR: [illegible]	
LOCATION: WADE SITE CHESTER, PA.	WEATHER & TEMPERATURE: Sunny (A.M.) 65°F
JOB NO: 0759-26-05-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
• [illegible]	[illegible] SITE	[illegible]
[illegible]	[illegible]	
[illegible]	[illegible]	
• [illegible]	[illegible]	1
[illegible] ON EAST SIDE	OPERATORS	2
OF SITE.	SUPERVISORS	
• [illegible]	LABORERS	2
[illegible]		
[illegible]		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
[illegible]	[illegible]
[illegible]	742 [illegible]
J. SMYTH, PLUMBER	
[illegible]	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

• [illegible]
[illegible]
[illegible]

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

[illegible]

VISITORS: (Time, Representing, Comments)

770

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 8 JUNE 1992	BY: JOHN C. [illegible]
CONTRACTORS SUPERVISOR: [illegible]	
LOCATION: [illegible] SITE, CHESTER, PA	WEATHER & TEMPERATURE: [illegible]
JOB NO: [illegible]	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
	[illegible]	
• [illegible]	[illegible]	
[illegible]	[illegible]	
• [illegible]	[illegible]	
• [illegible]	[illegible]	2
[illegible]	[illegible]	
• [illegible]	[illegible]	2
[illegible]		
[illegible]		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
[illegible]	[illegible] 2,058,540
NTH [illegible]	(47 [illegible])

COMMENTS/PROBLEMS/AGREEMENTS MADE:

[illegible]

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

[illegible]

VISITORS: (Time, Representing, Comments)

[illegible]

[illegible]771

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 9 JUNE 1987 BY: JOHN D. PAULING	CONTRACTORS SUPERVISOR: M. MELLINGER
LOCATION: WADE SITE, CHESTER, PA.	WEATHER & TEMPERATURE: RAIN (A.M.) - OVERCAST (P.M.) 65°F 75°F
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
	DOZER GSE	1
• PLACE FILL AND COMPACTION	BACKHOE 580	1
SOUTH OF 1500 LINE	ROLLER 1102	1
	LOADER 966S	1
• GRADE SWALE ON WEST SIDE	OPERATORS	3
OF SITE NORTH OF 1100	SUPERVISORS	1
	LABORERS	2

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
IH AND GUARD SERVICES	ML FILL MATERIAL 1,883,340 *
NTH RUSSEL	(49 LOADS)

COMMENTS/PROBLEMS/AGREEMENTS MADE:

ROUTE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

COMPACTION DATA TEST RESULTS PER NTH RUSSEL LOGS

VISITORS: (Time, Representing, Comments)

JOHN CLAYPOOL

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 10 JUNE 1987 BY: JOHN D. PAULING	CONTRACTORS SUPERVISOR: M. MELLINGER
LOCATION: WADE SITE, CHESTER, PA.	WEATHER & TEMPERATURE: SUNNY (A.M.) 60°F → SUNNY (P.M.) 75°F
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
	DOZER GSE	1
• PLACE FILL AND COMPACT	BACK HOE 580	1
AT SOUTH END OF SITE	ROLLER 1102	1
	LOADER D665	1
• GRADE SWALE ON WEST SIDE	OPERATORS	3
OF SITE SOUTH OF 1100	SUPERVISORS	1
	LABORERS	2
• REPACK DRUMS FROM STEEL TO	BOBCAT, CLARK 743	1
PLASTIC CONTAINERS		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
INLAND GUARD SERVICES	ML FILL MATERIAL 2,652,120 #
NTH RUSSEL	(61 LOADS)

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

COMPACTION DATA TEST RESULTS PER NTH/ RUSSEL LOGS

VISITORS: (Time, Representing, Comments)

NONE

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5346

DATE: 11 JUNE 1987 — BY: JOHN D. PAULING	CONTRACTORS SUPERVISOR: M. MELLINGER
LOCATION: WADE SITE, CHESTER, PA.	WEATHER & TEMPERATURE: SUNNY (AM.) 65°F - SUNNY (P.M.) 75°F
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
• PLACE FILL AND COMPACT AT	DOZER G5E	1
SOUTH END OF SITE	BACKHOE 580	1
• PLACE FILL AND COMPACT AT	ROLLER 1102	1
NORTH END OF SITE	LOADER D66S	1
• GRADE SWALE ON WEST SIDE	OPERATORS	3
OF SITE SOUTH OF E-1000	SUPERVISORS	1
• REPACK DRUMS FROM STEEL	LABORERS	2
TO PLASTIC CONTAINERS	BOBCAT, CLARK 743	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
IH MID GUARD SERVICES	ML FILL MATERIAL 1,289,700 #
NTH RUSSEL	(28 LOADS)

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

COMPACTION DATA TEST RESULTS PER NTH / RUSSEL LOGS

VISITORS: (Time, Representing, Comments)

ROB ALLEN

774

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3020
TELEX: 83-5348

DATE: 12 JUNE 1987 BY: JOHN D. PAVLIK	CONTRACTORS SUPERVISOR: F. KLOTZBACH / M. MELLINGER
LOCATION: WADE SITE, CHESTER, PA.	WEATHER & TEMPERATURE: SUNNY (A.M.) - OVERCAST (P.M.) 70°F 75°F
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
• MOVE OIL/GREASE CAKED SOIL TO	DOZER GSE	1
AREA GRIDS ZONE 21 TO COMPLETE UP	BACKHOE 580	1
TO 6" FROM FINAL GRADE	ROLLER 1102	1
• FILL & COMPACT AROUND WELLS	LOADER D66S	1
• GRAD SWALE AND COMPACT SOUTH	OPERATORS	3
OF 1000 ON WEST SIDE OF SITE	SUPERVISORS	2
• GRADE AND COMPACT SOUTH OF 1000	LABORERS	2
ON NORTH SIDE OF SITE.	TAMPER	1
• CONSTRUCT STONE FILTER BERM AT		
SOUTH END OF SITE IN SWALES ON		
EAST AND WEST SIDE		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
IH AND GUARD SERVICES	NL FILL MATERIAL 80,960 #
NTH RUSSEL	(17 LOADS)
	PA #4 81,580 # (2 LOADS)
	RIP-RAP 151,860 # (3 LOADS)

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

COMPACTION DATA TEST RESULTS PER NTH RUSSEL LOGS

VISITORS: (Time, Representing, Comments)

NONE

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 15 JUNE 1987 BY: JOHN D. PAULING	CONTRACTORS SUPERVISOR: M. MELLINGER
LOCATION: WADE SITE, CHESTER, PA	WEATHER & TEMPERATURE: SUNNY (A.M.) 75°F
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
• PLACE TOP SOIL AT NORTH END OF SITE	DOZER GSE	1
• CONSTRUCT STONE FILTER BERM IN WEST SWALE AT SOUTH END OF SITE	BACKHOE 580	1
• CLEAN NEAR WEST FENCE AT CENTRAL PORTION OF SITE	ROLLER 1102	1
• FINISH ML FILL IN WEST SWALE AT NORTH END OF SITE (WILL FINISH ON 16 JUNE 1987)	LOADER D66S	1
• LOAD WASTE ON TRAILER TO GO TO GSX (HAZ. WASTE) Net Weight = 19,880 lbs	OPERATOR	3
	SUPERVISORS	1
	TAMPER	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
IN AND GUARD SERVICES	TOP SOIL 2,590,040 # (63 LOADS)
NTH RUSSEL	ZB STONE 71,760 # (1 LOAD)

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

COMPACTION DATA TEST RESULTS PER NTH RUSSEL LOGS

VISITORS: (Time, Representing, Comments)

NONE

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5346

DATE: 16 June 1987 BY: Jason E. Claypool	CONTRACTORS SUPERVISOR: M. Mellinger
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: overcast (AM) → sunny 70-92°F Moderate Winds
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
• placed top soil in grids 1 → 9 and throughout center ½ of site.	65E Dozer	1
	580 Backhoe	1
	Roller (1102)	1
	D665 Loader	1
• finished construction of stone filter berms and placed rip rap along southern treeline	Tamper	1
	Operator	3
	Supervisor	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH & Guard Svcs. Continue	Top Soil = 53 loads (2,302,740 #)
- Compaction Testing	Mk Fill = 9 loads (443,240 #)
- Soil Transportation	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

Compaction data per NTH/Russell logs

Received updated cross sections from Damon Associates

VISITORS: (Time, Representing, Comments)

Lorna Shull, USEPA, Site Visit

Bob Peace, RF WESTON, Site Visit

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 17 June 1987 BY: John E Clingerman	CONTRACTORS SUPERVISOR: M. Mellinger
LOCATION: Leslie Site - Chester, PA.	WEATHER & TEMPERATURE: Sunny All day 62 → 85° Light & Moderate winds
JOB NO: 0139-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
• placed top soil throughout west ½ of site	LSE dozer	1
	955 Backhoe	1
	1107 Roller	1
• graded berm along river	DALS Loader	1
	Foreman	1
• began work to remove holding tank	Supervisor	1
	Operators	3
• sanitary sewer disconnected		
• water service disconnected		

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- IH and Guard services continue	Top Soil =
- Soil transport	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

- broken water line outside front fenceline between main and water box causing the site Chester Water Authority to close to plug the service at the main.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

NONE

1:00 PM

DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 18 JUNE 1987 BY: John E. Clapperton	CONTRACTORS SUPERVISOR: M. Mellinger / F. Klotzbach
LOCATION: Wade Site - Chester, PA.	WEATHER & TEMPERATURE: Sunny All day 65→87° Moderate winds all day
JOB NO: 0739-26 03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
• placed topsoil NEAR River AND along Flower St.	Dozer (65E)	1
	580 Backhoe	1
	1102 Roller	1
• removed DER and RES office trailers. Relocated guard trailer	D&LS Loader	1
	Pump	1
	Portable Generator	1
• removed truck scale and began demolition of ramps	Supervisor	2
	Operators	3
• finished removal of elec. services		
2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)	
• TH and Guard services continue - Soil transport - Electrician services	Topsoil per RES records	

COMMENTS/PROBLEMS/AGREEMENTS MADE:

The Grant Central Landfill in Northampton Co. PA will accept the only soil pile. RES to prepare & expedite. Mudie paperwork.

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

None

VISITORS: (Time, Representing, Comments)

R. Beckus - PA DER Contractors Officer - Site visit

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DAILY REPORT

WESTON
MANAGERS DESIGNERS/CONSULTANTS
WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 19 June 1987 BY: John E. Clapsaddle	CONTRACTORS SUPERVISOR: M. Mellinger
LOCATION: Wade Site - Chester, PA	WEATHER & TEMPERATURE:
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- continued demolition of truck scale ramps and foundations.	580 backhoe	1
- backfilled septic tank hole & shaped swale around western corner of site.	D5E dozer	1
	1102 Roller	1
	66S Loader	1
- placed crushed septic tank and other debris in roll off containers.	Portable generator	1
	Supervisor	1
- removed water meter box.	Operators	2
- began spreading humus over topsoil.	Laborers	1

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
Guard services continue. Today was the last day of IH technician services.	Per RES' records

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

NONE

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DAILY REPORT

WESTON WAY
WEST CHESTER, PA 19380
PHONE: (215) 692-3030
TELEX: 83-5348

DATE: 25 June 1987 BY: John Claypool	CONTRACTORS SUPERVISOR: Mike Mellinger
LOCATION: Wade Site - Chester, Pa.	WEATHER & TEMPERATURE: Sunny - 85F Moderate Winds
JOB NO: 0739-26-03-05	

DESCRIPTION OF WORK PERFORMED: 1) CONTRACTOR	PERSONNEL & EQUIPMENT: DESCRIPTION	NUMBER
- relocated sludge id steel drums into	580 backhoe	1
2nd (condemned) box trailer.	Portable generator	1
	Supervisor	1
- continued general site cleanup	Operator	1
	Laborers	2

2) SUBCONTRACTOR:	MATERIALS: (QUANTITY, PURPOSE)
- Guard services continue	
	Per RES' records

COMMENTS/PROBLEMS/AGREEMENTS MADE:

NONE

TEST DATA: (List item(s) here and record details on appropriate test data sheet.)

NONE

VISITORS: (Time, Representing, Comments)

NONE

COMMONWEALTH OF PENNSYLVANIA
OA-50E REV. 79-12

DESK MEMORANDUM

SUBJECT: Draft Closure Report
Wade Site

TO: Abe Fardas

FROM: Don Beaker

DATE SENT: 2/2/88

DATE NEEDED:

	PLEASE CALL:		APPROVAL		SEE ME
	RETURNED YOUR CALL	X	AS REQUESTED		COMMENT
	INFORMATION		PREPARE REPLY/REPORT		NOTE AND FILE

RECEIVED BY | DATE | TIME

ROUTE	INITIAL	DATE	ROUTE	INITIAL	DATE

MESSAGE

Abe
Enclosed is a copy of the draft closure report for the Wade site. Upon approval final report by March 1, 1988
If you have any questions give me a call
Thanks
Don

P.S. John Claypool (Weston's site supervisor) is not happy with Weston

000782