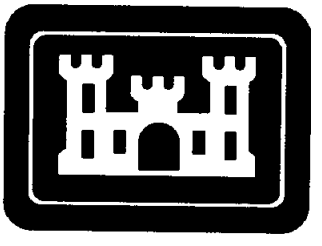
Final

FORT WINGATE DEPOT ACTIVITY GALLUP, NM

BUILDING 11 PCB INVESTIGATION REPORT

Prepared for

U.S. ARMY CORPS OF ENGINEERS
FORT WORTH, TEXAS 76102



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ACM	asbestos-containing materials
AOC	Area of Concern
BRAC	Base Realignment and Closure
cm	centimeter
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
COR	Contracting Officer's Representative
DI	de-ionized
DOT	Department of Transportation
EI	Environmental Investigation
EM	Engineering Manual
ERM	ERM Program Management Company
ESPS	Environmental Services Program Support
FSP	Field Sampling Plan
FWDA	Fort Wingate Depot Activity
HASP	Health and Safety Plan
KVA	kilvolt-ampere
KW	kilowatt
LBP	lead-based paint
mg/kg	milligrams per kilogram
ml	milliliter
$\mu g/cm^2$	micrograms per square centimeter
$\mu g/100\ cm^2$	micrograms per 100 square centimeters
µg/g	micrograms per gram
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
OCB	oil circuit breaker
PCB	polychlorinated biphenyls
PDP	PDP Analytical Services
Pickering	Pickering Environmental Consultants
PID	Photoionization Detector
PMC	Program Management Company
ppm	parts per million
NCP	National Contingency Plan
QAPP	Quality Assurance Project Plan
QC	quality control
RI/FS	Remedial Investigation/Feasibility Study
RCRA	Resource Conservation and Recovery Act
SWMU	Solid Waste Management Unit
TAL	Target Analyte List
TPH	total petroleum hydrocarbons
TPL	TPL, Inc.
TSCA	Toxic Substances Control Act
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency

1.0 INTRODUCTION

1.1 PURPOSE

This deliverable, the Final Building 11 Polychlorinated Biphenyl (PCB) Investigation Report, describes work performed at Building 11, the Former Locomotive Shop at Fort Wingate Depot Activity (FWDA), Gallup, NM. The work elements described within this document were conducted by Program Management Company (PMC) [formerly known as ERM Program Management Company (ERM)] of Exton, Pennsylvania. This document is being prepared to fulfill requirements of Delivery Order No. 0005 under the Environmental Services Program Support (ESPS) contract (Contract DACA31-94-D-0067). Contracting Officer's Representative (COR) and technical oversight responsibilities for the tasks described in this document have been performed by the U.S. Army Corps of Engineers (USACE), Fort Worth District.

1.2 BACKGROUND

FWDA is an inactive United States Army depot under the administrative command of the Tooele Army Depot, Tooele, Utah. The former mission of FWDA was to store, ship, and receive materiel and to dispose of obsolete or deteriorated explosives and ammunition. The active mission of FWDA ceased and the installation closed in January 1993. The installation is currently under Caretaker status and is undergoing final environmental restoration prior to property transfer/reuse.

An environmental investigation (EI) Program was implemented at FWDA as part of base closure in the Fall of 1992. The purpose of the EI Program was to determine the environmental impact (if any) from Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) previously identified for investigation and evaluation, and to identify areas requiring environmental restoration prior to property transfer. During the EI Program, Building 11 was identified as an area suspected of being potentially affected by leaks from PCB transformers housed in the building. Wipe and chip samples were collected from floor areas and a composite sediment sample was collected from two sumps identified as having possibly received leaking PCB materials.

The findings of the EI Program, initially reported in the Revised Draft Final Remedial Investigation/Feasibility Study (RI/FS) Report for FWDA (ERM, 1995) were that PCBs were detected in four of the seven wipe samples

collected, all four of the chip samples collected, and in the composite sediment sample collected. (Note: This Report has since been revised and resubmitted as the "Final Remedial Investigation/Feasibility Study (RI/FS) Report & Resource Conservation and Recovery Act (RCRA) Corrective Action Program Document", dated 15 November 1997 (PMC, 1997)). The source(s) of the PCBs was unclear and a number of the reported results were above potentially applicable clean up levels established under the Toxic Substances Control Act (TSCA).

1.3 *OBJECTIVES*

The primary objectives of this Building 11 PCB Investigation were to more completely characterize the building structure and equipment regarding PCB contamination and collect data sufficient to design, cost, and award a PCB remedial action contract (if necessary). Specifically, building surfaces, drains, and sumps were to be sampled to determine whether PCBs were present, and at what concentrations and locations within the building. Existing electrical equipment was also to be inventoried and sampled to determine PCB content.

To support potential remedial design efforts, the condition of floors (e.g., broken, painted, sloped to a drain, etc.) was to be noted, the configuration and size of drains and sumps (including estimated volume) recorded, and equipment that may need to be moved during potential remedial activities identified. Additionally, an asbestos contaminated material (ACM) survey was to be performed, focusing on areas where materials may be disturbed during any potential PCB remedial actions. The "Final Work Plan, Building 11 PCB Investigation, FWDA, Gallup, New Mexico" (ERM, 1 August 1997) described the planned scope of work for this investigation.

This Report summarizes the findings and recommendations of the investigation efforts and has been prepared as a component of the FWDA EI Program. Associated documents which addressed field implementation issues and are incorporated by reference include the following:

- Final Field Sampling Plan (FSP), FWDA, Gallup, New Mexico (ERM, 1 August 1997);
- Final Quality Assurance Project Plan (QAPP), FWDA, Gallup, New Mexico (ERM, 1 August 1997); and
- Final Health and Safety Plan (HASP), FWDA, Gallup, New Mexico (ERM, 1 August 1997).

2.0 PROJECT SCOPING

2.1 SITE LOCATION

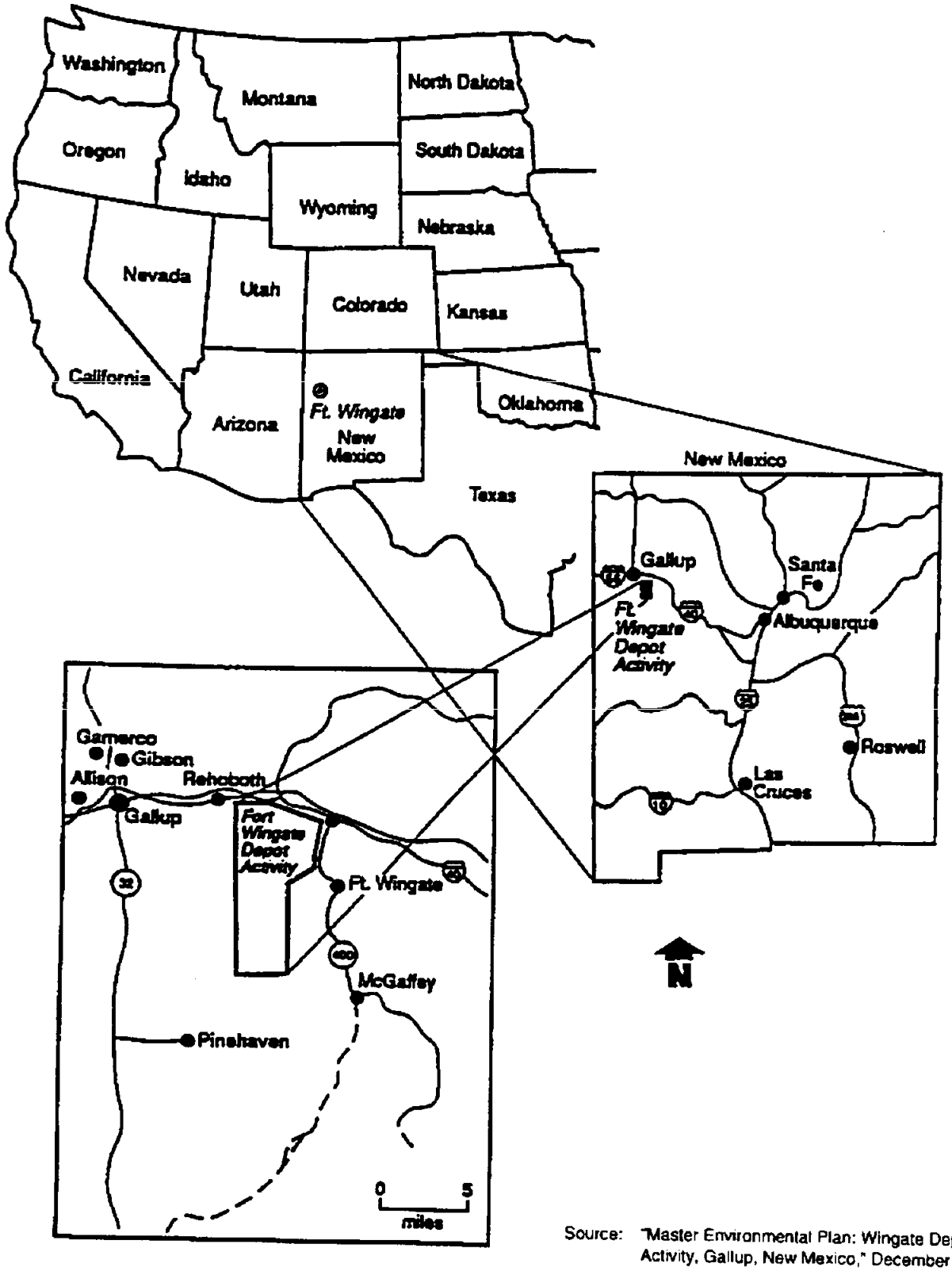
FWDA occupies approximately 34 square miles (22,120 acres) of land in northwestern New Mexico, in McKinley County. The installation is located 8 miles east of Gallup, and about 130 miles west of Albuquerque on U.S. Route 66 (Figure 2-1). Building 11 is located in the Administration Area (Figure 2-2) of FWDA. Building 11 (Figure 2-3) was the locomotive repair shop during the installation's active mission and housed a diesel locomotive and gasoline-powered track tender. The building also contains the main electrical switching/distribution station and standby generators for the installation. The locomotive shop is currently being leased by TPL, Inc. (TPL) for storage and maintenance of the diesel locomotive and gasoline-powered track tender, which were transferred from Army ownership to TPL following base closure.

Building 11 is a one-and-a-half story masonry building (Figure 2-4) consisting of three distinct areas: the locomotive repair shop, an office area, and the main electrical switching/distribution station for the installation. The electrical switch station is housed in the east side of the building (shown in right side of Figure 2-4) and consists of air- and oil-filled switches and appurtenances, two 15 kilovolt-ampere (KVA) transformers, one operational 85 kilowatt (KW) diesel generator, and one dismantled 148 KW diesel generator. The electrical station and standby generator are maintained by installation caretaker personnel (the Caretakers). The locomotive shop is housed in the west side of the building (shown in left side of Figure 2-4) and consists of three service bays, each with a rolling overhead door and service trench and with three sets of rail lines entering the building from the west. Three service pits are located within the locomotive shop and each contain a drain. The building also has a basement which contains two sumps.

2.2 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

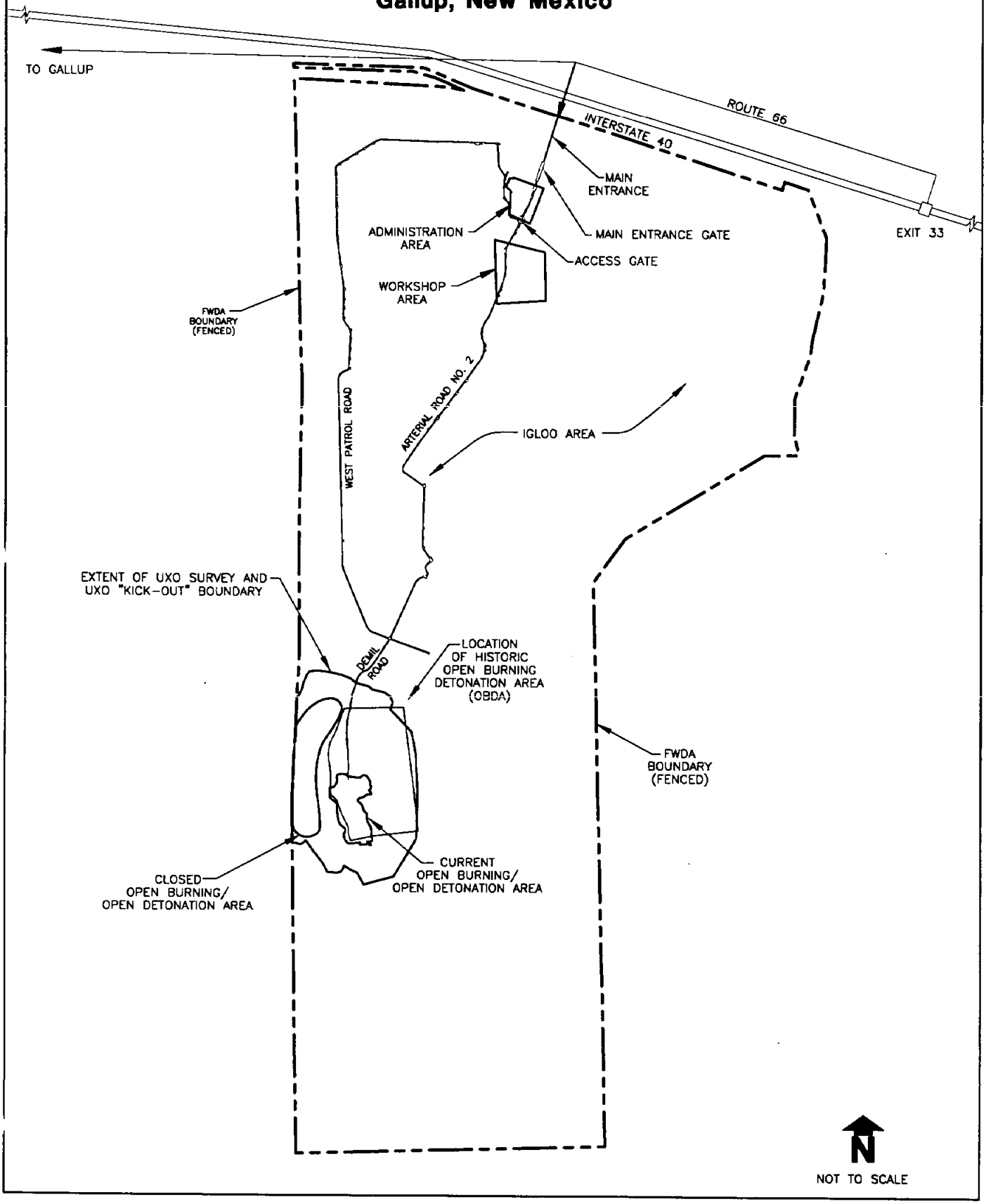
As reported in the RI/FS Report for FWDA (ERM, 1995), a focused investigation of Building 11 was conducted as part of the EI Program. Tasks performed included collection of wipe, chip, and sump sediment samples for PCB analysis. A preliminary survey and evaluation of the building's electrical equipment for the potential presence of PCBs was also performed. Figure 2-5 depicts observed areas of heavy staining within the building and the location and type of samples previously collected within Building 11. In

Figure 2-1
Location of Fort Wingate Depot Activity
Fort Wingate Depot Activity
Gallup, New Mexico



Source: "Master Environmental Plan: Wingate Depot Activity, Gallup, New Mexico," December 1990.

Figure 2-2
FWDA Historical Land Use
Fort Wingate Depot Activity
Gallup, New Mexico



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00805.80.01/02.18.98-DST/03.23.99-DST/A101-1A

Figure 2-3
Location Map
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

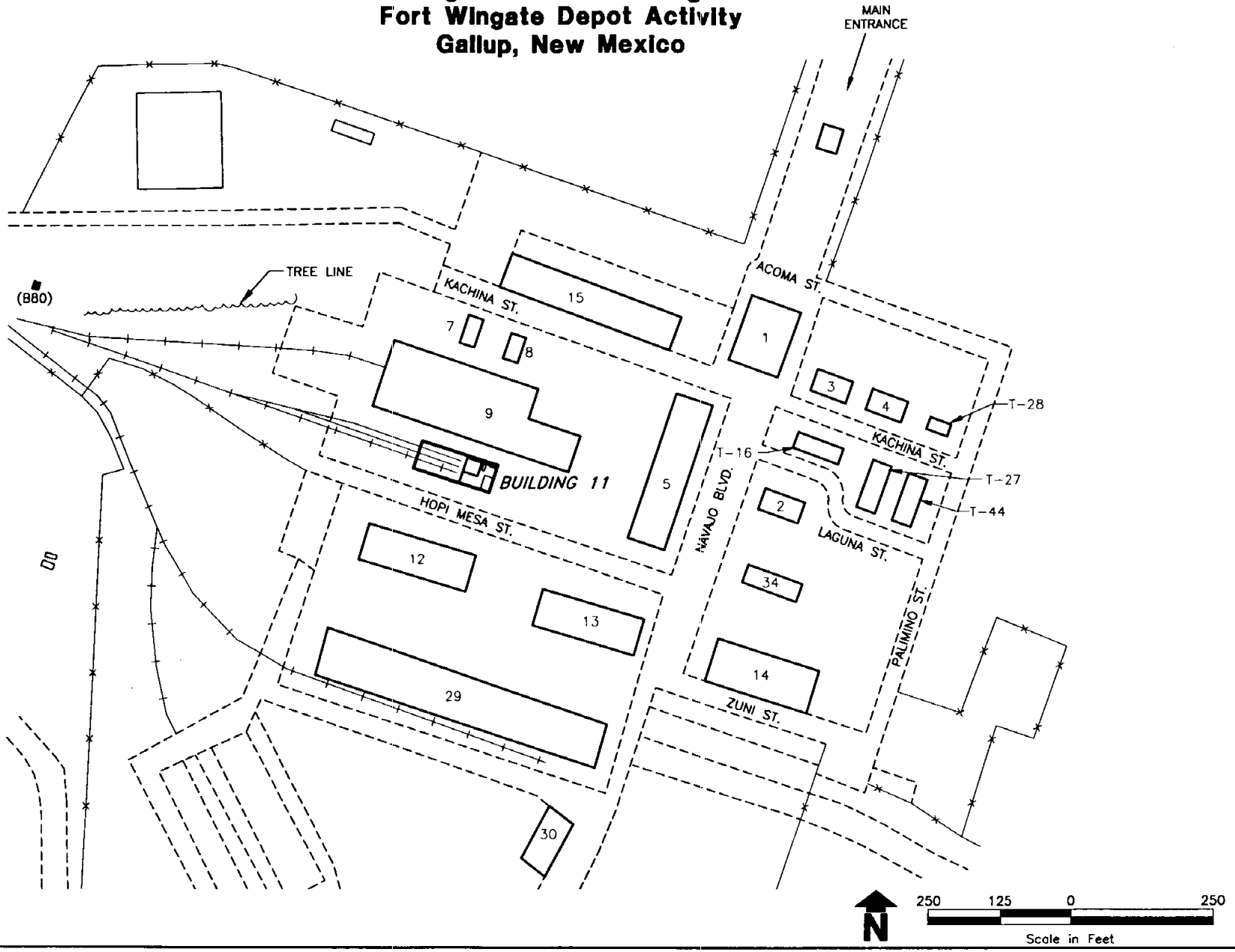

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Figure 2-4
Building 11
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Building 11 looking northwest.

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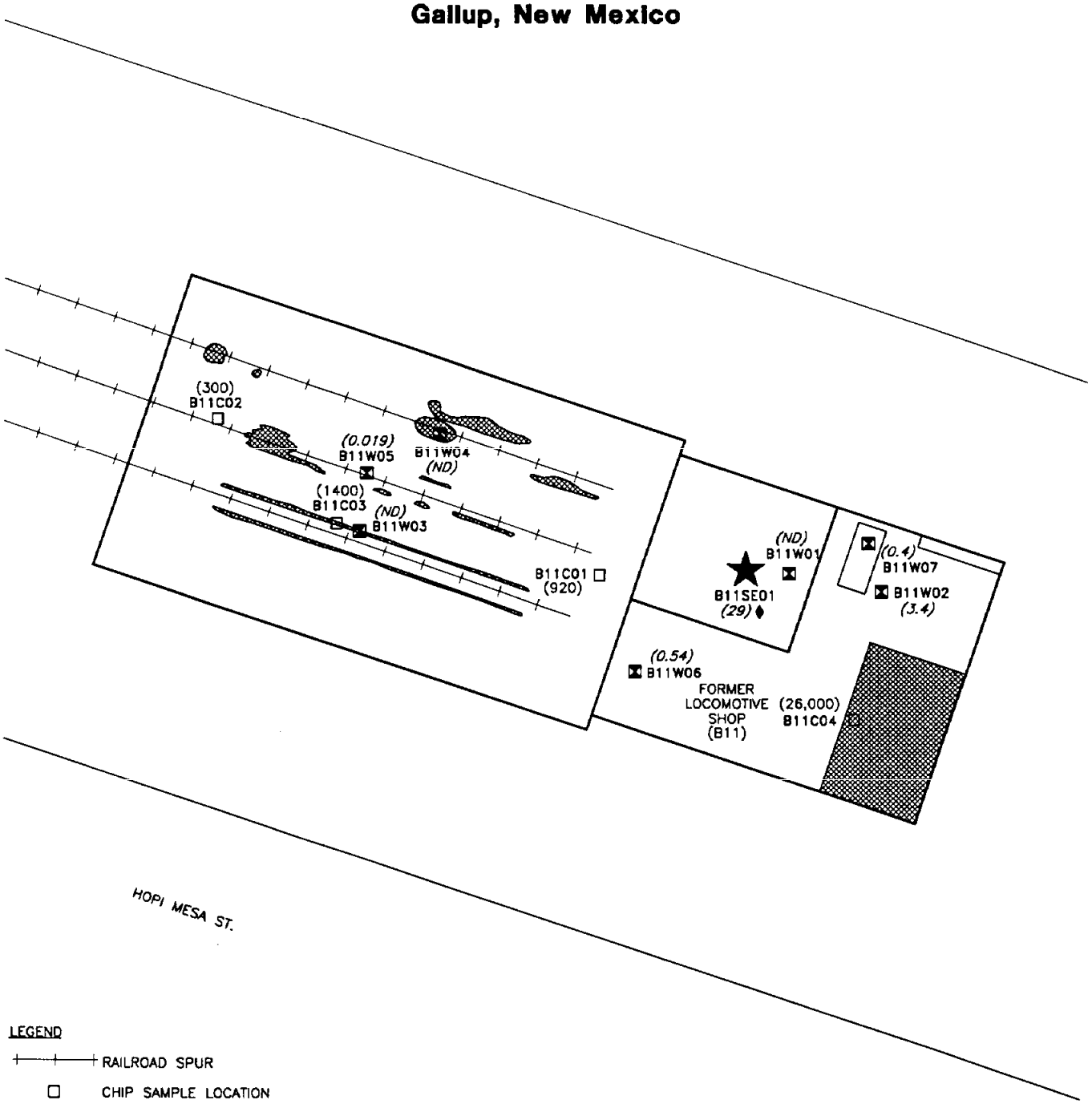
Figure 2-5
Previous Sample Location Schematic
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico



LEGEND

- RAILROAD SPUR
- CHIP SAMPLE LOCATION
- WIPE SAMPLE LOCATION
- SEDIMENT SAMPLE LOCATION
- (920) CHIP CONCENTRATION (UG/G)
- *(0.54)* WIPE CONCENTRATION (UG/CM^2)
- *(ND)* NOT DETECTED
- HEAVY STAINING
- LOCATION EXCEEDS SCREENING LEVEL
- COMPOUND EXCEEDS SCREENING LEVEL

N SCHEMATIC: NOT TO SCALE

addition, an ACM survey of the installation had been previously performed and the findings and results of this survey with respect to Building 11 were reviewed. The results of the previous investigation and survey efforts for Building 11 are summarized below.

2.2.1 *Wipe Sampling*

Seven wipe samples (B11W01-B11W07) were collected from within the building from observed stained and unstained areas. Two samples were collected in apparently unstained areas, one (B11W05) near the middle set of railroad tracks and the second (B11W06) in the office area. PCB 1254 was detected in both samples at concentrations of 0.019 micrograms per square centimeter ($\mu g/cm^2$) and 0.54 $\mu g/cm^2$, respectively.

The remaining five wipe samples were collected in stained areas along the railroad tracks (B11W03 and B11W04), under the standby generators (B11W02 and B11W07), and adjacent to the basement sumps (B11W01). PCBs were not detected in samples B11W01, B11W03, and B11W04. PCB 1254 was detected in samples B11W02 and B11W07 at concentrations of 3.4 $\mu g/cm^2$ and 0.4 $\mu g/cm^2$, respectively.

2.2.2 *Chip Sampling*

Four chip samples (B11C01-B11C04) were collected from within the building from observed stained and unstained areas. Two samples (B11C01 and B11C02) were collected in apparently unstained areas near the railroad tracks. PCB 1254 was detected in both samples at concentrations of 920 micrograms per gram ($\mu g/g$) and 300 $\mu g/g$, respectively.

The remaining two samples were collected in stained areas, one (B11C03) adjacent to the railroad tracks and the second (B11C04) in the standby generator engine pit. PCB 1254 was detected in both samples at concentrations of 1,400 $\mu g/g$ and 26,000 $\mu g/g$, respectively.

2.2.3 *Sump Sediment Sampling*

One composite sample (B11SE01) was collected from sediments at the bottom of each of the two sumps. PCB 1260 was detected in this sample at a concentration of 29 $\mu g/g$.

2.2.4 *Equipment Evaluation*

During the EI Program, the electrical equipment present in Building 11 was qualitatively evaluated for information indicating the presence or absence of PCBs. No samples were collected from observed electrical equipment. At the time of the evaluation, active transformers in the building were observed to be labeled as PCB-free. In addition, six oil cutout switches observed in the basement of the building were identified by field personnel as potentially containing PCBs.

2.2.5 *ACM Surveys*

Prior to implementation of the EI Program, an asbestos survey of the installation was performed by Pickering Environmental Consultants, Inc. (Pickering) and the findings were reported in the "Final Asbestos Survey Report for Fort Wingate Defense Activity, Gallup, NM", dated November 1990, prepared by Pickering. In performing the survey of Building 11, several suspect ACM locations were identified and three samples of friable pipe insulation and pipe joint material were collected and confirmed to be ACM. The Pickering Report served as the basis for a subsequent visual survey and focused building evaluation performed during the EI Program. During this effort, additional areas of suspect ACM were observed within Building 11 and reported in the RI/FS Report (ERM, 1995). No sampling of suspect ACM was performed during the EI Program.

2.2.6 *Investigation Summary*

The findings of the EI Program, reported in the Revised Draft Final RI/FS Report for FWDA (ERM, 1995) were that PCBs were detected in four of the seven wipe samples collected, all four of the chip samples collected, and in the composite sediment sample collected. The four wipe samples determined to contain PCBs were collected from both stained and unstained areas and were determined to be below potential TSCA cleanup levels. The four chip samples were determined to potentially exceed applicable TSCA cleanup levels of 25 parts per million (ppm). However, the source and nature of the potential release of PCBs and the need for further action was uncertain. The source of the PCBs detected in the composite sump sample was also unknown.

In addition, the presence of potential ACM within the building was confirmed and locations of suspected ACM observed. However, the direct impact of potential ACM material regarding any proposed PCB remedial actions was uncertain at that time.

2.3 *CURRENT SCOPE OF WORK*

The primary objectives of the Building 11 PCB Investigation were to more completely characterize the building structure and equipment regarding PCB contamination and collect data sufficient to design, cost, and award a PCB remedial action contract (if required). Building surfaces, drains, and sumps were to be sampled to determine whether PCBs were present, and at what concentrations and locations within the building. Existing electrical equipment was also to be inventoried and sampled to confirm/determine PCB content.

To support potential remedial design efforts, the condition of floors (e.g., broken, painted, sloped to a drain, etc.) was to be noted, the configuration and size of drains and sumps (including estimated volume) recorded, and equipment that may need to be moved during potential remedial activities identified. Additionally, an ACM survey was to be performed, focusing on areas where materials may be disturbed during any potential PCB remedial actions.

Table 2-1 provides a field activity summary for the Building 11 PCB Investigation for the equipment inventory, PCB Sampling, and ACM survey. The proposed sampling activities were to be completed in several phases, with wipe sampling performed first and the results used to guide the placement of concrete chip and core samples. Additionally, the collected sump sediment and water samples were to be analyzed for Target Analyte List (TAL) Metals and Total Petroleum Hydrocarbons (TPH) as an indication of potential past building practices and for waste disposal characterization.

2.4 *METHODOLOGY*

Samples were collected following procedures outlined in the Work Plan (ERM, 1 August 1997), the FSP (ERM, 1 August 1997), and in USACE Engineering Manual (EM) 200-1-3. Modifications to and clarifications of methodologies used are described below.

2.4.1 *Wipe Sampling*

Wipe samples were to be collected from interior surfaces to define areas of PCB contamination. The samples were to be collected from both visually observed stained and unstained areas as well as from painted and unpainted surfaces.

Table 2-1
Field Activity Summary
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Task	Activity	Analytes
• Equipment Inventory	Inventoried all electrical equipment and created schematic; Identified other equipment that may need to be moved or dismantled to accomplish PCB remediation	N/A
• PCB Sampling	Collected wipe, concrete chip, concrete core, and paint chip samples to define areas of PCB contamination	PCBs
	Collected dielectric fluid samples from selected electrical equipment	PCBs
	Collected sump sediment and water samples	PCBs, Target Analyte List (TAL) Metals, and Total Petroleum Hydrocarbons (TPH)
	Identified floor drains and discharge points; collected wipe and soil samples at discharge points (as feasible)	PCBs
• ACM Survey	Verified locations of previously identified ACM; identified and sampled suspect ACM in locations which may be disturbed during PCB remediation	Asbestos

Wipe sample containers were prepared in the field with laboratory-supplied reagent grade hexane, laboratory-certified sample containers, and lab-supplied gauze pads. The wipe procedure was modified because the wipe pads were too large (3 inches by 3 inches) to be handled efficiently with stainless steel tongs. A clean pair of latex gloves was used to handle each sample, with wipe blanks being handled in the same manner.

Wipe sampling templates were made of 1/8-inch thick Teflon® sheet, with a 10 centimeter (cm) by 10 cm opening. The templates were decontaminated between samples as follows: washed with an Alconox® solution, rinsed with a laboratory-supplied de-ionized (DI) water, rinsed with hexane, rinsed with DI water, and wrapped in aluminum foil until ready to use. Equipment blanks were collected by wiping a sampling pad over a decontaminated template.

2.4.2 *Concrete Chip and Core Sampling*

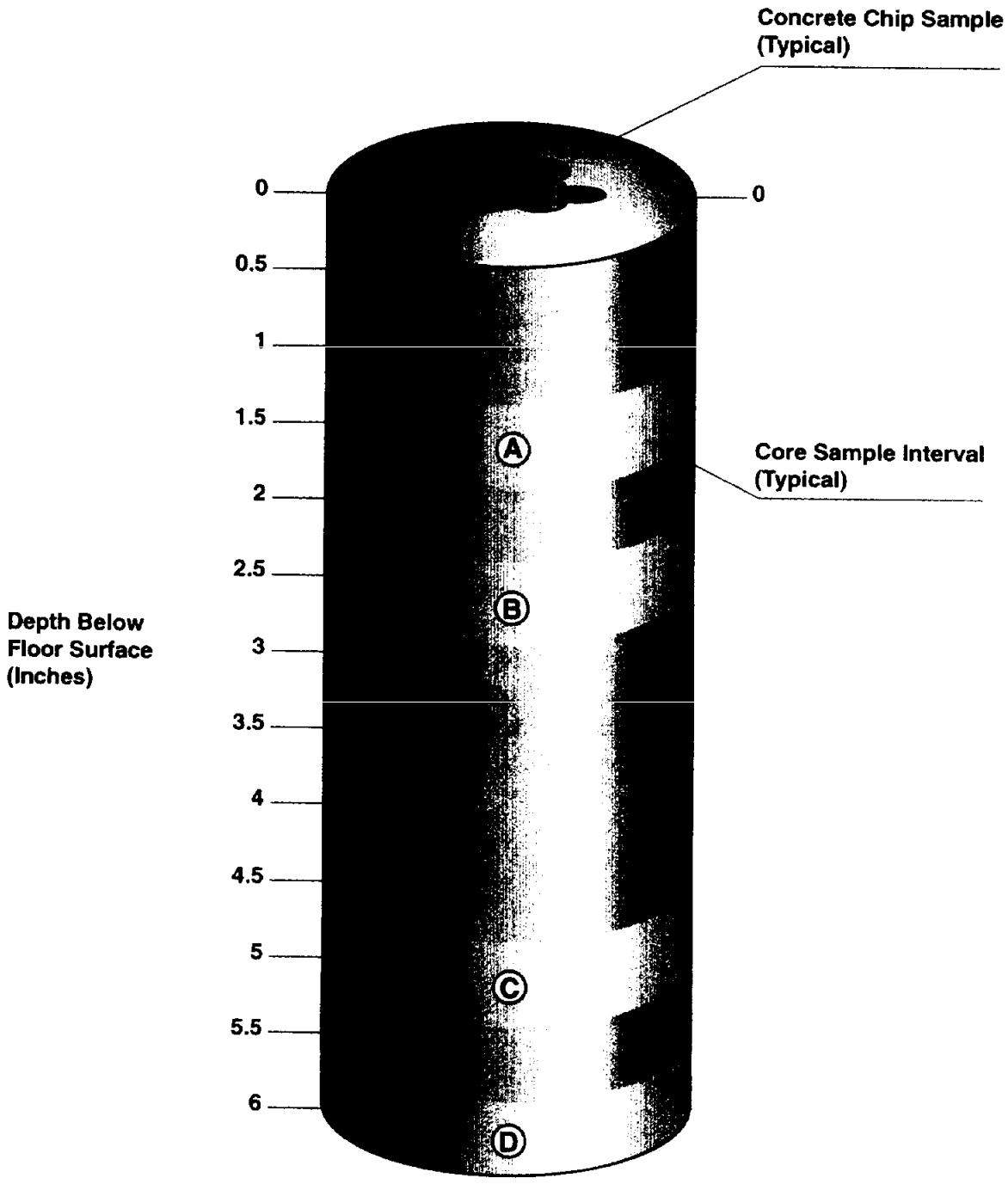
Concrete chip and core sampling was to be performed to determine/confirm the presence and depth of PCB contamination in the concrete floor slabs. Results of the PCB wipe sampling were reviewed on-site during a walk through with the USACE Technical Manager, and locations for concrete chips and core samples were selected from various wipe sample locations. The samples were also to be collected from both visually observed stained and unstained areas.

Once concrete cores were removed from the floor, discrete intervals were cut as shown in Figure 2-6. The core was sliced with a reciprocating saw and the half-inch thick slices were broken and placed in a laboratory-supplied sample container. The approximate sample intervals were as follows: the 1- to 1.5-inch depth (A), the 2- to 2.5-inch depth (B), the 4.5- to 5-inch depth (C), and the bottom 0.5 inches (D) of each core. When the samples were received at the laboratory, the entire half-inch thick sample was ground up and extracted for analysis. These samples were then analyzed following a phased approach. First the "A" sample was analyzed. If the sample from this interval was contaminated, then the "B" sample was analyzed, and so on.

2.4.3 *Dielectric Fluid and Oil Sampling*

Dielectric fluid and oil samples were to be collected to assess PCB content of electrical and other fluid-filled equipment in Building 11. Dielectric fluid and oil samples were analyzed in the field using Clor-N-Oil test kits and U.S. Environmental Protection Agency (USEPA) Method 9079. As described in the HASP, dielectric fluid sampling was conducted only on equipment that had been de-energized and rendered safe by a licensed electrician. The

Figure 2-6
Concrete Core Sample Schematic
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico



volume of fluid or oil required for the testing was only 5 milliliters (mL), so replacement was not necessary. The use of field test kits allowed classification of the fluids as non-PCB (less than 50 ppm), PCB-contaminated (50-499 ppm), or PCB (500 ppm or greater).

2.4.4 *Floor Drain Survey and Sampling*

All floor drain locations within the building were to be identified. Floor drain discharge locations were noted on copies of the building construction plans, and have been included on drawings referenced in Section 3.0. The observed/noted discharge locations were not field verified with flow testing.

2.5 *SAMPLE HANDLING, DOCUMENTATION, AND ANALYSIS*

Samples for chemical analyses were handled and documented as described in the FSP. Chemical analyses were performed by PDP Analytical Services (PDP), The Woodlands, Texas, following USEPA methodologies described in the QAPP. Because this sampling effort is to support a remedial design and not to quantify a release to the environment, Quality Control (QC) samples were not collected (with the exception of the wipe sampling equipment blanks described above).

A certified asbestos inspector from Envirotech, Inc., Farmington, New Mexico, was subcontracted to perform the ACM survey and sampling under PMC supervision. Following a building walkthrough to identify suspect materials that could be disturbed during any PCB remedial action, samples of suspect ACM were collected. Asbestos analyses were performed by Assaigai Laboratories, Albuquerque, New Mexico.

3.0 RESULTS AND DISCUSSION

Field activities in support of the Building 11 PCB Investigation were conducted in August, September, and October 1997. The findings and results of the investigation are summarized below.

Because of the historic use of Building 11 as a locomotive repair shop and main electrical switching/distribution station and based on the findings of the initial characterization efforts, the presence of PCBs within the building was expected. However, the nature and potential source(s) of identified PCBs (e.g., spill), timeframe, volume, and PCB content of spilled material (from which applicable regulations and cleanup levels could be established) were uncertain. The focus of the current investigation program was to more completely characterize the building structure and equipment regarding PCB contamination. Since TSCA cleanup guidelines are applicable to new spills, with older spills requiring a case-by-case determination of clean up levels by the appropriate regulatory agency (e.g., USEPA, State of New Mexico), the findings of wipe samples have been compared to a conservative TSCA standard and the remaining sampling has been presented as a measure of the potential occurrence of PCBs in the locations evaluated and impact (if any) to the environment. Additionally, for the purposes of this evaluation, the potential applicable reporting requirements under other environmental regulations have not been addressed [e.g., Clean Water Act, Comprehensive Environmental Response Compensation and liability Act of 1980 (CERCLA), National Contingency Plan (NCP), State of New Mexico regulations].

3.1 EQUIPMENT EVALUATION

During the building evaluation, existing electrical equipment in Building 11 was inventoried with consultation from a licensed electrician to identify equipment that would be classified as containing PCBs, require sampling to determine PCB content, or which may need to be dismantled or removed during potential PCB remediation efforts. Nine oil circuit breakers and two emergency generators were identified for testing as described in Section 3.2.3. The locations of inventoried electrical equipment have been identified in Figure 3-1 (Appendix A), as are locations of other equipment which may need to be dismantled or removed during potential PCB remediation efforts. Equipment inventory sheets are included in Appendix B.

3.2 PCB SAMPLING

The discussion of PCB sampling results provided below is organized by type of sample and by the area in which the samples were located (Locomotive Shop, Electrical Room, Transformer Vault, Boiler Room, and the Office, Shop, Tool Cage, and Restroom).

3.2.1 *Wipe Sampling*

One hundred and three wipe samples were collected to assess PCB contamination on various surfaces in the building. Samples with PCBs detected are summarized in Table 3-1. The full sample results are summarized in Table C-1, Appendix C and are shown in Figure 3-1 (Appendix A). PCBs were not detected in the three equipment blank wipes and one wipe pad blank.

For comparison purposes and to provide an assessment of building conditions, the wipe sampling results have been compared to a TSCA surface cleanup level of 10 micrograms per 100 square centimeters ($\mu g/100\ cm^2$). This surface clean up level, as referenced in 40 Code of Federal Regulations (CFR) 761.125 "Requirements for PCB Spill Cleanup", is applicable to unrestricted future-use and the decontamination of unencapsulated impervious surfaces.

3.2.1.1 *Locomotive Shop*

Fifty-three wipe samples were collected in both visibly stained and unstained areas on the floor and in the locomotive service trenches (Photos 1 through 6, Appendix D). The floor in the Locomotive Shop was observed to be unpainted concrete and generally in good condition with only a few cracks. The service trenches were also observed to be unpainted concrete and in good condition, with no observed cracks. PCBs were not detected in 23 of the 53 samples collected. As shown in Table 3-1, PCB 1254 was detected in 30 of 53 samples at concentrations ranging from 1 to 13 $\mu g/100\ cm^2$. Only one detection (B11WIPE054 at 13 $\mu g/100\ cm^2$) exceeds the TSCA surface cleanup level of 10 $\mu g/100\ cm^2$. This sample was located in the bottom of the north locomotive service trench.

3.2.1.2 *Electrical Room*

Eighteen wipe samples were collected from both visibly stained and unstained areas on the floor and in the Engine Pit (Photos 7 through 11, Appendix D). The floors in the Electrical Room were observed to be painted concrete and in good condition. The floor of the Engine Pit was observed to

Table 3-1
Detected Target Parameters - PCB Samples
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
Wipe Samples					
B11WIPE019	8/21/97	Locomotive Shop south trench	Aroclor 1254	3	µg/100 cm^2
B11WIPE021	8/21/97	Locomotive Shop south trench	Aroclor 1254	3	µg/100 cm^2
B11WIPE022	8/22/97	Locomotive Shop floor	Aroclor 1254	1 J	µg/100 cm^2
B11WIPE023	8/22/97	Locomotive Shop floor	Aroclor 1254	5	µg/100 cm^2
B11WIPE024	8/22/97	Locomotive Shop floor	Aroclor 1254	4	µg/100 cm^2
B11WIPE025	8/22/97	Locomotive Shop floor	Aroclor 1254	2	µg/100 cm^2
B11WIPE028	8/22/97	Locomotive Shop floor	Aroclor 1254	2	µg/100 cm^2
B11WIPE029	8/22/97	Locomotive Shop floor	Aroclor 1254	2	µg/100 cm^2
B11WIPE030	8/22/97	Locomotive Shop floor	Aroclor 1254	1 J	µg/100 cm^2
B11WIPE031	8/22/97	Locomotive Shop floor	Aroclor 1254	4	µg/100 cm^2
B11WIPE032	8/22/97	Locomotive Shop floor	Aroclor 1254	1 J	µg/100 cm^2
B11WIPE033	8/22/97	Locomotive Shop floor	Aroclor 1254	6	µg/100 cm^2
B11WIPE034	8/22/97	Locomotive Shop floor	Aroclor 1254	5	µg/100 cm^2
B11WIPE035	8/22/97	Locomotive Shop floor	Aroclor 1254	1 J	µg/100 cm^2
B11WIPE036	8/22/97	Locomotive Shop floor	Aroclor 1254	1	µg/100 cm^2
B11WIPE037	8/22/97	Locomotive Shop floor	Aroclor 1254	1 J	µg/100 cm^2
B11WIPE038	8/22/97	Locomotive Shop floor	Aroclor 1254	3	µg/100 cm^2
B11WIPE039	8/22/97	Locomotive Shop floor	Aroclor 1254	2	µg/100 cm^2
B11WIPE040	8/22/97	Locomotive Shop floor	Aroclor 1254	1	µg/100 cm^2
B11WIPE041	8/22/97	Locomotive Shop floor	Aroclor 1254	4	µg/100 cm^2
B11WIPE042	8/22/97	Locomotive Shop floor	Aroclor 1254	1 J	µg/100 cm^2
B11WIPE043	8/22/97	Locomotive Shop floor	Aroclor 1254	2	µg/100 cm^2
B11WIPE044	8/22/97	Locomotive Shop floor	Aroclor 1254	1	µg/100 cm^2
B11WIPE045	8/22/97	Locomotive Shop floor	Aroclor 1254	1	µg/100 cm^2
B11WIPE046	8/22/97	Locomotive Shop floor	Aroclor 1254	1 J	µg/100 cm^2
B11WIPE047	8/22/97	Locomotive Shop floor	Aroclor 1254	1 J	µg/100 cm^2
B11WIPE048	8/22/97	Locomotive Shop south trench wall	Aroclor 1254	2	µg/100 cm^2
B11WIPE051	8/22/97	Locomotive Shop middle trench	Aroclor 1254	2	µg/100 cm^2
B11WIPE054	8/22/97	Locomotive Shop north trench	Aroclor 1254	13	µg/100 cm^2
B11WIPE055	8/22/97	Locomotive Shop north trench wall	Aroclor 1254	3	µg/100 cm^2
B11WIPE056	8/22/97	Electrical Room engine pit	Aroclor 1254	4	µg/100 cm^2
B11WIPE057	8/22/97	Electrical Room engine pit	Aroclor 1254	7	µg/100 cm^2
B11WIPE058	8/22/97	Electrical Room engine pit	Aroclor 1254	33	µg/100 cm^2

Table 3-1
Detected Target Parameters - PCB Samples
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE059	8/22/97	Electrical Room engine pit	Aroclor 1254	31	µg/100 cm^2
B11WIPE060	8/22/97	Electrical Room engine pit	Aroclor 1254	83	µg/100 cm^2
B11WIPE061	8/22/97	Electrical Room engine pit	Aroclor 1254	12	µg/100 cm^2
B11WIPE064	8/22/97	Electrical Room floor	Aroclor 1254	2	µg/100 cm^2
B11WIPE065	8/22/97	Electrical Room floor	Aroclor 1254	1 J	µg/100 cm^2
B11WIPE066	8/22/97	Electrical Room floor	Aroclor 1254	4	µg/100 cm^2
B11WIPE067	8/22/97	Electrical Room floor	Aroclor 1254	4	µg/100 cm^2
B11WIPE069	8/23/97	Electrical Room floor	Aroclor 1254	1	µg/100 cm^2
B11WIPE070	8/23/97	Electrical Room floor, near small generator	Aroclor 1254	230	µg/100 cm^2
B11WIPE071	8/23/97	Electrical Room floor, near small generator	Aroclor 1254	41	µg/100 cm^2
B11WIPE072	8/23/97	Electrical Room floor, near small generator	Aroclor 1254	15	µg/100 cm^2
B11WIPE073	8/23/97	Electrical Room floor, near small generator	Aroclor 1254	4	µg/100 cm^2
B11WIPE074	8/23/97	Electrical Room floor, near small generator	Aroclor 1254	790	µg/100 cm^2
B11WIPE104	9/18/97	Electrical Room engine pit, trough under gen.	Aroclor 1254	49	µg/100 cm^2
B11WIPE108	9/20/97	Electrical Room floor	Aroclor 1260	2	µg/100 cm^2
B11WIPE062	8/22/97	Electrical Room engine pit, side of engine crankcas	Aroclor 1254	17	µg/100 cm^2
B11WIPE075	8/23/97	Electrical Room wall, near small generator	Aroclor 1254	28	µg/100 cm^2
B11WIPE076	8/23/97	Electrical Room engine pit wall	Aroclor 1260	3	µg/100 cm^2
B11WIPE077	8/23/97	Transformer Vault floor	Aroclor 1260	4	µg/100 cm^2
B11WIPE078	8/23/97	Transformer Vault floor	Aroclor 1260	14	µg/100 cm^2
B11WIPE079	8/23/97	Transformer Vault floor	Aroclor 1260	49	µg/100 cm^2
B11WIPE080	8/23/97	Transformer Vault floor	Aroclor 1260	28	µg/100 cm^2
B11WIPE081	8/23/97	Transformer Vault slab	Aroclor 1260	420,000	µg/100 cm^2
B11WIPE082	8/23/97	Transformer Vault slab	Aroclor 1260	8,900	µg/100 cm^2
B11WIPE083	8/23/97	Transformer Vault slab	Aroclor 1260	310	µg/100 cm^2
B11WIPE084	8/23/97	Transformer Vault floor	Aroclor 1260	87	µg/100 cm^2
B11WIPE085	8/23/97	Transformer Vault floor	Aroclor 1260	37	µg/100 cm^2
B11WIPE086	8/23/97	Transformer Vault floor	Aroclor 1260	77	µg/100 cm^2
B11WIPE087	8/23/97	Shop floor	Aroclor 1254	20	µg/100 cm^2
B11WIPE088	8/23/97	Shop floor	Aroclor 1254	5	µg/100 cm^2
B11WIPE089	8/23/97	Shop floor	Aroclor 1254	13	µg/100 cm^2
B11WIPE090	8/23/97	Tool Cage floor	Aroclor 1254	74	µg/100 cm^2
B11WIPE091	8/23/97	Office floor	Aroclor 1254	6	µg/100 cm^2
B11WIPE092	8/23/97	Office floor	Aroclor 1254	11	µg/100 cm^2

Table 3-1
Detected Target Parameters - PCB Samples
Building 11 PCB Investigation
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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE093	8/23/97	Shop floor	Aroclor 1254	23	µg/100 cm^2
B11WIPE094	8/23/97	Shop floor	Aroclor 1254	32	µg/100 cm^2
B11WIPE095	8/23/97	Restroom floor	Aroclor 1254	160	µg/100 cm^2
B11WIPE097	8/23/97	Boiler Room floor, near northwest sump	Aroclor 1260	4	µg/100 cm^2
B11WIPE098	8/23/97	Base of stairs from Boiler Room to Vault	Aroclor 1260	4	µg/100 cm^2
B11WIPE102	9/18/97	Restroom floor	Aroclor 1254	290	µg/100 cm^2
B11WIPE103	9/18/97	Boiler Room, coal bin floor	Aroclor 1260	5	µg/100 cm^2
B11WIPE105	9/18/97	Transformer Vault floor	Aroclor 1260	10	µg/100 cm^2
B11WIPE106	9/18/97	Transformer Vault floor	Aroclor 1260	6	µg/100 cm^2
Chip Samples					
B11CHIP003	9/18/97	Locomotive Shop floor	Aroclor 1254	170	µg/kg
B11CHIP016	9/18/97	Locomotive Shop floor	Aroclor 1260	240	µg/kg
B11CHIP019	8/21/97	Locomotive Shop south trench	Aroclor 1254	170	µg/kg
B11CHIP024	9/18/97	Locomotive Shop floor	Aroclor 1254	960	µg/kg
B11CHIP031	10/11/97	Locomotive Shop floor	Aroclor 1254	880	µg/kg
B11CHIP033	9/18/97	Locomotive Shop floor	Aroclor 1254	560	µg/kg
B11CHIP038	9/18/97	Locomotive Shop floor	Aroclor 1260	940	µg/kg
B11CHIP041	9/18/97	Locomotive Shop floor	Aroclor 1254	970	µg/kg
B11CHIP042	9/18/97	Locomotive Shop floor	Aroclor 1260	83	µg/kg
B11CHIP058	9/18/97	Electrical Room engine pit	Aroclor 1254	42,000	µg/kg
B11CHIP060	9/18/97	Electrical Room engine pit	Aroclor 1254	16,000	µg/kg
B11CHIP061	8/22/97	Electrical Room engine pit	Aroclor 1254	2,800	µg/kg
B11CHIP065	9/18/97	Electrical Room floor	Aroclor 1254	1,300,000	µg/kg
B11CHIP074	9/18/97	Electrical Room floor, near small generator	Aroclor 1254	450,000	µg/kg
B11CHIP075	9/18/97	Electrical Room wall, near small generator	Aroclor 1254	32,000	µg/kg
B11CHIP078	9/18/97	Transformer Vault floor	Aroclor 1260	93,000	µg/kg
B11CHIP079	9/18/97	Transformer Vault floor	Aroclor 1260	1,400,000	µg/kg
B11CHIP081	9/18/97	Transformer Vault slab	Aroclor 1260	240,000,000	µg/kg
B11CHIP082	9/18/97	Transformer Vault slab	Aroclor 1260	8,900	µg/kg
B11CHIP085	9/18/97	Transformer Vault floor	Aroclor 1260	7,500	µg/kg
B11CHIP086B	9/18/97	Transformer Vault floor	Aroclor 1260	1,700	µg/kg
B11CHIP088	9/18/97	Shop floor	Aroclor 1254	1,500,000	µg/kg
B11CHIP090	9/18/97	Tool Cage floor	Aroclor 1254	720,000	µg/kg
B11CHIP092	9/18/97	Office floor	Aroclor 1254	1,300,000	µg/kg

Table 3-1
Detected Target Parameters - PCB Samples
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11CHIP093	9/18/97	Shop floor	Aroclor 1260	450	µg/kg
B11CHIP097	9/18/97	Boiler Room floor	Aroclor 1260	1,100	µg/kg
B11CHIP099	9/18/97	Boiler Room floor	Aroclor 1260	910	µg/kg
B11CHIP0P1	9/18/97	Electrical Room, chip of wall paint near small gen.	Aroclor 1260	150,000	µg/kg
B11CHIP0P2	9/18/97	Shop, chip of wall paint near door to exterior	Aroclor 1254	270,000	µg/kg
Core Samples					
B11CORE060A	9/20/97	Electrical Room engine pit	Aroclor 1254	690	µg/kg
B11CORE060B	9/20/97	Electrical Room engine pit	Aroclor 1254	270	µg/kg
B11CORE060C	9/20/97	Electrical Room engine pit	Aroclor 1254	220	µg/kg
B11CORE060D	9/20/97	Electrical Room engine pit	Aroclor 1254	120	µg/kg
B11CORE074A	9/20/97	Electrical Room floor, near small generator	Aroclor 1254	180	µg/kg
B11CORE074B	9/20/97	Electrical Room floor, near small generator	Aroclor 1254	51	µg/kg
B11CORE081A	9/20/97	Transformer Vault slab	Aroclor 1260	120	µg/kg
B11CORE081B	9/20/97	Transformer Vault slab	Aroclor 1260	170	µg/kg
B11CORE081C	9/20/97	Transformer Vault slab	Aroclor 1260	170	µg/kg
B11CORE081D	9/20/97	Transformer Vault slab	Aroclor 1260	68	µg/kg

ND Not Detected
µg/kg Micrograms per Kilogram
µg/100 cm^2 Micrograms per 100 Square Centimeters

be unpainted concrete and generally in good condition with a few observed cracks. As shown in Table 3-1, PCB 1254 was detected in 17 samples at concentrations ranging from 1 to 790 µg/100 cm^2. PCB 1260 was detected in one sample behind the distribution switchboard (B11WIPE108) at 2 µg/100 cm^2. Nine samples had concentrations above the TSCA surface cleanup level of 10 µg/100 cm^2.

Four wipe samples were collected from vertical surfaces in the Electrical Room. As shown on Table 3-1, PCBs were detected in three of the four samples. Two samples (B11WIPE063 and B11WIPE076) were collected in areas on the Engine Pit walls (Photo 12, Appendix D). No PCBs were detected in B11WIPE063. PCB 1260 was detected on the south wall of the Engine Pit (B11WIPE076) at 3 µg/100 cm^2. One sample (B11WIPE075) was collected from a stained area on the wall next to the Caterpillar generator and contained PCB 1254 at 28 µg/100 cm^2. One sample (B11WIPE062) was collected on the Fairbanks Morse generator crankcase (Photo 13, Appendix D) and contained PCB 1254 at 17 µg/100 cm^2. The latter two samples exceed the TSCA surface cleanup level of 10 µg/100 cm^2.

3.2.1.3 *Transformer Vault*

Twelve wipe samples were collected in both visibly stained and unstained areas on the floor (Photos 14 and 15, Appendix D). The Transformer Vault floor was observed to be unpainted concrete and generally in good condition, although it is covered with a layer of fine sediment (presumably from flooding). As shown in Table 3-1, PCB 1260 was detected in all samples, at concentrations ranging from 4 to 420,000 µg/100 cm^2. Three samples contained PCBs at or below the TSCA surface cleanup level of 10 µg/100 cm^2. Nine samples exceeded the TSCA surface cleanup level of 10 µg/100 cm^2. The sample with the highest concentration (B11WIPE081, 420,000 µg/100 cm^2) was collected in a thick, viscous stain on the 6-inch high concrete slab on the north side of the vault (Photo 16, Appendix D). The stain was small, less than 10 square feet, and did not appear to be recent. A sample (B11WIPE082) obtained from an adjacent, unstained area (Photo 17, Appendix D) yielded a concentration of 890 µg/100 cm^2

3.2.1.4 *Boiler Room*

Five wipe samples were collected in both visibly stained and unstained areas on the floors in the Boiler Room and coal bin (Photos 18 through 20, Appendix D). The floors were observed to be unpainted concrete and generally in good condition, although covered with a fine layer of sediment (presumably from flooding). One sample (B11WIPE098) collected in the lightly stained area around the sump at the bottom of the steps on the east

wall (Photo 21, Appendix D) contained PCB 1260 at 4 µg/100 cm^2. Four other samples were collected in unstained areas around the room. No PCBs were detected in two samples (B11WIPE096 and B11WIPE099) from the center of the room. One sample (B11WIPE097) at the edge of the northwest sump and one sample (B11WIPE103) in the coal bin contained PCB 1260 at 4 and 5 µg/100 cm^2, respectively. All concentrations are below the TSCA surface cleanup level of 10 µg/100 cm^2.

3.2.1.5 *Office, Shop, Tool Cage, and Restroom*

Ten wipe samples were collected from visibly stained and unstained areas (Photos 22 through 26, Appendix D) on the Office, Shop, Tool Cage, and Restroom floors, and one sample was collected on the workbench in the Tool Cage. The floors in these rooms were observed to be painted concrete and in good condition, with the exception of peeling paint in several locations. The workbench is painted wood, and also appeared in good condition.

Two wipe samples (B11WIPE091 and B11WIPE092) were collected in the Office. PCB 1254 was detected in both samples, at 6 and 11 µg/100 cm^2, respectively. The latter sample exceeds the TSCA surface cleanup level of 10 µg/100 cm^2.

Five wipe samples were collected in the Shop, with PCB 1254 detected in all five at concentrations ranging from 5 to 32 µg/100 cm^2. Four of the five samples exceed the TSCA surface cleanup level of 10 µg/100 cm^2.

Two wipe samples were collected in the Tool Cage, one (B11WIPE090) in area of peeling paint on the floor and one (B11WIPE101) on the workbench in front of the sink. PCB 1254 was detected in B11WIPE090 only, at 74 µg/100 cm^2, exceeding the TSCA surface cleanup level of 10 µg/100 cm^2.

Two wipe samples were collected in the Restroom, one (B11WIPE095) in a stained area in the doorway and another in front of the urinal (B11WIPE102). PCB 1254 was detected in both samples, at 160 and 290 µg/100 cm^2, respectively. Both concentrations exceed the TSCA surface cleanup level of 10 µg/100 cm^2.

3.2.2 *Concrete Chip and Core Sampling*

Concrete chip and core sampling was performed to assess impacts to the building from past operations. Twenty-eight chip samples were collected to determine the presence of PCB contamination in the surface to 0.5-inch depth interval at locations with both detections and no detections for PCBs as a result of the wipe sampling. The sample results have been presented only as

either detections or non-detections of PCBs. Samples with PCBs detected are summarized in Table 3-1. Full sample results are summarized in Table C-1, Appendix C and are shown in Figure 3-1 (Appendix A).

Five concrete cores were collected at locations indicated by the USACE Technical Manager during a building walk through. Each coring was co-located with a chip sample to assess contamination with depth. Samples with PCBs detected are summarized in Table 3-1. Full sample results are summarized in Table C-1, Appendix C and are shown in Figure 3-1 (Appendix A).

3.2.2.1 *Locomotive Shop*

Ten concrete chip samples were collected from the floor and service trenches in the Locomotive Shop (Photo 27, Appendix D). As shown in Table 3-1, PCB 1254 was detected in six of the ten samples at concentrations ranging from 170 to 970 micrograms per kilogram (µg/kg). PCB 1260 was detected in three of the ten samples at concentrations ranging from 83 to 940 µg/kg.

One concrete core was collected in the Locomotive Shop, in a stained area next to the southern set of rails. PCBs were not detected in the "A" depth interval and therefore no further samples were analyzed.

3.2.2.2 *Electrical Room*

Six concrete chip samples were collected in the Electrical Room and Engine Pit. As shown in Table 3-1, PCB 1254 was detected in all six samples. One sample (B11CHIP075) from the stained area on the wall (actually painted brick) next to the Caterpillar generator contained PCB 1254 at 32,000 µg/kg. Two samples (B11CHIP074 and B11CHIP065) from the painted concrete floor contained PCB 1254 at concentrations of 450,000 and 1,300,000 µg/kg, respectively. Three samples (B11CHIP061, B11CHIP060, and B11CHIP058) collected from the unpainted concrete floor of the Engine Pit contained PCB 1254 at 2,800, 16,000, and 42,000 µg/kg, respectively.

Two concrete cores were collected, one from the Electrical Room floor next to the Caterpillar generator (B11CORE074), and one from the floor in the Engine Pit (B11CORE060). The core at Location #74 was only 3 inches deep, to prevent drilling through the floor to the Transformer Vault below. PCB 1254 was detected in both the "A" and "B" intervals, at 180 and 51 µg/kg, respectively. The core at Location #60 was completed to full floor depth and was approximately 8 inches thick. PCB 1254 was detected in all four intervals analyzed, decreasing with depth from 690 µg/kg in the "A" interval to 120 µg/kg in the "D" interval.

3.2.2.3 *Transformer Vault*

Six concrete chips were collected in the Transformer Vault. PCBs were detected in all six samples. As shown in Table 3-1, PCB 1260 was detcted in all six samples. Two samples (B11CHIP085 and B11CHIP086) from the floor in the east room contained PCB 1260 at concentrations of 7,500 and 1,700 µg/kg, respectively. Two samples (B11CHIP078 and B11CHIP079) from the floor in the west room contained PCB 1260 at concentrations of 93,000 and 1,400,000 µg/kg, respectively. Two samples (B11CHIP081 and B11CHIP082) from the raised concrete slab on the north side of the west room contained PCB 1260 at concentrations of 240,000,000 and 8,900 µg/kg, respectively. The high value for B11CHIP081 is believed attributable to the thick stain described in Section 3.2.3.

Two concrete cores were collected in the Transformer Vault, one from the floor in the western room (B11CORE085) and one from the raised concrete slab in the eastern room (B11CORE081). Both cores were completed to the full floor depth (8 inches at Location #85, over 14 inches at Location #81). PCBs were not detected in Location #85. PCB 1260 was detected in all four intervals analyzed at Location #81, decreasing with depth from 120 µg/kg in the "A" interval to 68 µg/kg in the "D" interval.

3.2.2.4 *Boiler Room*

Two concrete chip samples (B11CHIP097 and B11CHIP099) were collected in the Boiler Room. PCB 1260 was detected in both samples at 1,100 and 910 µg/kg, respectively.

3.2.2.5 *Office, Shop, Tool Cage, and Restroom*

One concrete chip sample (B11CHIP092) was collected in the Office. PCBs were detected at 1,300,000 µg/kg. Two concrete chip samples (B11CHIP088 and B11CHIP093) were collected in the Shop. PCBs were detected at 1,500,000 and 450 µg/kg, respectively. One concrete chip sample (B11CHIP090) was collected in the Tool Cage. PCBs were detected at 720,000 µg/kg.

3.2.3 ***Paint Chip Sampling***

During the course of the investigation and at the direction of the USACE Technical Manager, two paint chip samples were collected from locations of observed peeling paint and analyzed for PCB content. As shown in Table 3-1, PCBs were detected in both samples. Full sample results are summarized in Table C-1, Appendix C. Sample results are shown in Figure 3-1 (Appendix

A). The first sample (B11CHIP0P1) was collected from peeling paint in the Electrical Room next to the Caterpillar generator and contained PCB 1260 at 150,000 µg/kg. The second sample (B11CHIP0P2) was collected from peeling paint in the Shop next to the exterior door and contained PCB 1254 at 270,000 µg/kg.

3.2.4 *Dielectric Fluid and Oil Sampling*

Dielectric fluid and oil sampling was performed on fluid-filled items identified during the equipment inventory. PCB test kits were used to analyze samples from 12 pieces of fluid filled equipment for PCB content. The PCB test kit results are summarized in Table 3-2 and in Figure 3-3 (Appendix A).

Nine oil circuit breakers (OCB) are located in the Transformer Vault, each with a stenciled identification number on the front (Photo 28, Appendix D). Five (OCB #1-4, and #6) are located on a rack in the east room and four (OCB #7-10) are located on a rack in the west room. After all power was shut off and verified off by a licensed electrician, a sample was withdrawn from the oil reservoir on each OCB by loosening the retaining nut at each corner and tipping the reservoir (Photos 29 and 30, Appendix D). Eight OCBs contained oil with less than 50 ppm PCBs. Only OCB #9 was found to contain PCB oil (greater than 500 ppm PCBs). The estimated volume of oil in OCB #9 was approximately 3 gallons. One transformer was sitting on the floor behind each OCB rack (Photo 31, Appendix D). Both were labeled "PCB-Free" and were not tested.

Oil samples were collected from the crankcase of each of the two emergency generators located in the Electrical Room. The Fairbanks Morse emergency generator located in the engine pit in the Electrical Room appeared to have a full crankcase of oil. No manufacturer literature was discovered for this piece of equipment to determine capacity. This generator is partially disassembled and has apparently not been operational for a long period of time. A dipstick was observed, but a dedicated crankcase drain was not obvious. A sample was collected from oil which had leaked out onto the casing (Photo 32, Appendix D). The test kit results indicated that the oil may be pure Askarel, which would classify the crankcase oil as PCB Oil. What appeared to be an oil heater for the generator was located in the southwest corner of the engine pit (Photo 33, Appendix D). A sample of oil from the heater was withdrawn, tested, and appeared to be non-PCB. Total oil volume for the Fairbanks Morse generator and heater is estimated between 10 and 15 gallons.

Table 3-2
PCB Test Kit Results
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Location	PID Reading (ppm)	PCB Test Kit Result
OCB #1	NM	Less than 50 ppm
OCB #2	NM	Less than 50 ppm
OCB #3	NM	Less than 50 ppm
OCB #4	NM	Less than 50 ppm
OCB #6	NM	Less than 50 ppm
OCB #7	NM	Less than 50 ppm
OCB #8	NM	Less than 50 ppm
OCB #9	NM	Greater than 500 ppm
OCB #10	NM	Less than 50 ppm
FMG #1	NM	Pure Askarel
FMG #2	NM	Less than 50 ppm
CG #1	NM	Less than 50 ppm
Oil Drum #1	57.5	Less than 50 ppm
Oil Drum #2	32.1	Greater than 50, less than 500 ppm
Oil Drum #3	23.4	Greater than 50, less than 500 ppm
Oil Drum #4	28.5	Greater than 50, less than 500 ppm
Oil Drum #5	35.2	Greater than 50, less than 500 ppm

CG	Caterpillar Generator
FMG	Fairbanks Morse Generator
NM	Not Measured
OCB	Oil Circuit Breaker
ppm	Parts Per Million

The Caterpillar generator (Photo 9, Appendix D) located in the northwest corner of the Electrical Room is operated and maintained by the Caretakers. No PCBs were detected in a sample of crankcase oil, which would be expected for a machine that has had its oil changed periodically and should contain fairly recent oil.

On the direction of the USACE Technical Manager, the diesel locomotive and gasoline-powered track tender were not inspected or sampled because they are now owned by TPL.

3.3 *SUMP SEDIMENT AND WATER SAMPLING*

Two sumps are located in the basement of Building 11 as shown in Figure 3-1 (Appendix A), the first is located in the northwest corner of the Boiler Room, and the second at the base of the steps to the Transformer Vault in the Boiler Room. Sediment and water samples were collected from both sumps and analyzed for PCBs, TPH, and TAL metals. The sample results have been presented only as either detections or non-detections. Samples with parameters detected are summarized in Table 3-3 and full sample results are summarized in Table C-2, Appendix C.

The sump in the northwest corner of the Boiler Room was constructed of concrete with a concrete bottom (Photo 34, Appendix D). The sump is 21-inches in diameter and total depth was observed to be approximately 4 feet 9 inches. There were approximately 2 inches of water and sediment in the bottom of the sump. The water and sediment samples were identified as B11SW01 and B11SED01, respectively. PCB 1254 and TPH were detected in B11SW01 at 7.0 and 77,000 micrograms per liter (µg/L), respectively. PCB 1260, TPH, and lead were detected in B11SED01 at 860 µg/kg, 2,000,000 µg/kg, and 252 milligrams per kilogram (mg/kg), respectively.

A sump pump is present in the northwest sump and two discharge pipes were observed. Building drawings show one 1.75-inch diameter cast iron line discharging to the building sanitary sewer line, and ultimately to the sanitary sewer manhole on the north side of the building. Sampling of the sanitary manhole is discussed in Section 3.4. A second line was observed to apparently discharge sump water to a downspout (storm drain) on the north side of the building. One PCB wipe sample (B11WIPE107) was collected in the downspout opposite the sump pump discharge. PCBs were not detected.

The sump on the east side of the room (at the base of the steps to the Transformer Vault) is constructed of corrugated metal (Photo 21, Appendix D). The presence/material of construction of the sump bottom could not be

Table 3-3
Detected Target Parameters - Characterization Samples
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11SW01	9/18/97	Boiler room sump, northwest corner of room	Aroclor 1254	7.00	µg/L
			TPH	77,000	µg/L
			Aluminum	31.00	mg/L
			Arsenic	0.18	mg/L
			Barium	2.50	mg/L
			Cadmium	0.03	mg/L
			Calcium	270	mg/L
			Chromium	0.14	mg/L
			Cobalt	0.03	mg/L
			Copper	11.00	mg/L
			Iron	220	mg/L
			Lead	1.70	mg/L
			Magnesium	57.00	mg/L
			Manganese	2.00	mg/L
			Nickel	0.19	mg/L
			Potassium	51.00	mg/L
			Selenium	0.02	mg/L
			Sodium	65.00	mg/L
			Vanadium	0.07	mg/L
			Zinc	13.00	mg/L
			Mercury	0.001	mg/L
B11SED01	9/19/97	Boiler room sump, northwest corner of room	Aroclor 1260	860	µg/kg
			TPH	2,000,000	µg/kg
			Aluminum	4,000	mg/kg
			Arsenic	7.09	mg/kg
			Barium	310	mg/kg
			Cadmium	5.00	mg/kg
			Calcium	27,000	mg/kg
			Chromium	55.00	mg/kg
			Cobalt	6.00	mg/kg
			Copper	1,500	mg/kg
			Iron	33,000	mg/kg
			Lead	252	mg/kg
			Magnesium	8,800	mg/kg
			Manganese	250	mg/kg
			Nickel	37.00	mg/kg
			Potassium	1,600	mg/kg
			Sodium	3,300	mg/kg
			Vanadium	11.00	mg/kg
			Zinc	2,300	mg/kg

Table 3-3
Detected Target Parameters - Characterization Samples
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11SW02	9/19/97	Boiler room sump, bottom of stairs to Transformer Vault	Aroclor 1254	5.00	µg/L
			TPH	3,100	µg/L
			Aluminum	0.96	mg/L
			Arsenic	0.02	mg/L
			Barium	0.24	mg/L
			Calcium	45.00	mg/L
			Copper	0.08	mg/L
			Iron	5.50	mg/L
			Lead	0.02	mg/L
			Magnesium	12.00	mg/L
			Manganese	0.10	mg/L
			Potassium	25.00	mg/L
			Selenium	0.01	mg/L
			Sodium	56.00	mg/L
			Thallium	0.01	mg/L
			Zinc	0.23	mg/L
B11SED02	9/19/97	Boiler room sump, bottom of stairs to Transformer Vault	Aroclor 1260	3,900	µg/kg
			TPH	29,000,000	µg/kg
			Aluminum	3,000	mg/kg
			Arsenic	5.60	mg/kg
			Barium	120	mg/kg
			Cadmium	1.92	mg/kg
			Calcium	19,000	mg/kg
			Chromium	26.00	mg/kg
			Cobalt	4.40	mg/kg
			Copper	170	mg/kg
			Iron	28,000	mg/kg
			Lead	292	mg/kg
			Magnesium	4,000	mg/kg
			Manganese	170	mg/kg
			Nickel	21.00	mg/kg
			Potassium	1,400	mg/kg
			Sodium	710	mg/kg
			Vanadium	8.40	mg/kg
			Zinc	590	mg/kg

Table 3-3
Detected Target Parameters - Characterization Samples
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11DRAN00	8/23/97	Locomotive Shop, composite of all three service trenches	TPH	11,000,000	µg/kg
			Aluminum	12,000	mg/kg
			Arsenic	5.52	mg/kg
			Barium	320	mg/kg
			Cadmium	2.42	mg/kg
			Calcium	23,000	mg/kg
			Chromium	73.00	mg/kg
			Cobalt	4.30	mg/kg
			Copper	110	mg/kg
			Iron	9,000	mg/kg
			Lead	245	mg/kg
			Magnesium	5,000	mg/kg
			Manganese	220	mg/kg
			Nickel	19.00	mg/kg
			Potassium	3,400	mg/kg
			Selenium	1.58	mg/kg
			Sodium	1,400	mg/kg
			Vanadium	16.00	mg/kg
			Zinc	420	mg/kg
B11DRAN00	9/19/97	Sanitary sewer manhole sediment at Bldg. 11 lateral	Aroclor 1260	210	µg/kg
B11DRAN00	9/18/97	Shop pipe trench, earthen trench bottom	Aroclor 1254	21,000	µg/kg
B11SW03	9/19/97	Electrical Room engine pit, trench drain	Aroclor 1254	1.20	µg/L
			TPH	3,900,000	µg/L
			Arsenic	0.01	mg/L
			Barium	0.29	mg/L
			Calcium	51.00	mg/L
			Copper	0.03	mg/L
			Iron	0.47	mg/L
			Magnesium	5.90	mg/L
			Potassium	6.80	mg/L
			Sodium	13.00	mg/L
			Thallium	0.01	mg/L
B11SED03*	9/19/97	Electrical Room engine pit, trench drain	Aroclor 1254	8,800	µg/kg

* Sample analyzed for PCBs only
ND Not Detected
µg/kg Micrograms per Kilogram
µg/L Micrograms per Liter
mg/kg Milligrams per Kilogram
mg/L Milligrams per Liter
TPH Total Petroleum Hydrocarbons

confirmed. The sump is 24-inches in diameter and total depth was observed to be approximately 2 feet 6 inches. There was approximately 2 feet of water and sediment in the sump, for a total volume of approximately 47 gallons. The water and sediment samples were identified as B11SW02 and B11SED02, respectively. PCB 1254 and TPH were detected in B11SW02, at 5.0 and 3,100 µg/L, respectively. PCB 1260, TPH, and lead were detected in B11SED02 at 3,900 µg/kg, 29,000,000 µg/kg, and 292 mg/kg, respectively.

It appeared that the east sump originally had a sump pump in it which discharged either to the northwest sump or directly to the down spout. No pump was observed during the field effort. During the concrete coring in the Transformer Vault, cooling water (potable water from the FWDA system) from the cutting head ran off the floor into this sump, increasing the water level by 6 inches. By the end of the day, the water level had returned to its original level, indicating that the sump bottom may be open or perforated.

3.4 *FLOOR DRAIN SURVEY AND SAMPLING*

Six floor drains were identified during the investigation. Samples were collected from four locations, as shown on Figure 3-1 (Appendix A). Sampling was conducted following procedures outlined in the FSP. Samples B11DRAN001and B11SW03 were analyzed for PCBs, TPH, and TAL metals. B11DRAN002, B11DRAN003, and B11SED03 were analyzed for PCBs only. Samples with parameters detected are summarized in Table 3-3. Full sample results are summarized in Table C-2, Appendix C.

A 12-inch diameter drain with sediment trap was located at the east end of each locomotive service trench, with the entire trench sloped to the drain (Photos 34 and 35, Appendix D). Several oily pools, drip pans, and oil filters were observed in the south trench, over which the locomotive is currently being stored and serviced by TPL. Granular absorbent and dried mud were observed in all three trenches. One composite sample (B11DRAN001) was collected from the solid materials in all three trenches. PCBs were not detected. As shown in Table 3-3, TPH and lead were detected at 11,000,000 µg/kg and 245 mg/kg, respectively. Total volume of solid materials is less than 7 cubic feet.

The drains in the south and middle trenches were full of oily sediment and water. A long rod was used to determine that the lines were plugged in all three drains. As shown on Figure 3-1 (Appendix A), these drains discharge to the building's sanitary sewer line through a 4-inch cast iron pipe. Because the lines were plugged, no flow testing to confirm the discharge location could be performed. The materials plugging the drains were too watery to be

analyzed with PCB test kits. No samples were collected for laboratory analysis because it was determined that a representative sample was not likely to be collected. Instead, one sediment sample (B11DRAN002) was collected from the building sanitary sewer line at the manhole on the exterior of the north side of the building. As shown in Table 3-3, PCB 1260 was detected at 210 µg/kg.

Two 4-inch diameter floor drains were observed in the basement, one in the Transformer Vault (Photo 15, Appendix D) and one in the Boiler Room (Photo 19, Appendix D). As shown on Figure 3-1 (Appendix A), both appear to drain to the sump in the northwest corner of the Boiler Room. A discharge pipe was observed entering the sump on the east side. Samples collected at this discharge location were discussed in Section 3.3.

A utility trench was observed in the Shop area, just inside the exterior door (Photo 25, Appendix D). This trench contained steam lines to the radiators, and appeared to have an earthen bottom. One sample (B11DRAN003) was collected from the soil in the trench bottom. PCB 1254 was detected at 21,000 µg/kg.

One floor drain was identified in the Engine Pit in the Electrical Room. A shallow trench, approximately 10 inches deep, was a cooling water blow off drain and was used to route piping to the Fairbanks Morse engine. A 10-inch diameter drain at the east end of the trench was shown on the building utility drawings to discharge to a 3-foot diameter, 12-foot deep dry well located approximately 20 feet from the east wall of the building. During the investigation, there were approximately 4 inches of standing water in the trench (Photo 37, Appendix D). The water had an oily sheen and a photoionization detector (PID) reading of 5.0 parts per million (ppm). Red brown, fluffy sediment was observed in the bottom of the trench, likely rust from the piping in the trench. A water and sediment sample pair (B11SW03 and B11SED03) were collected from the trench. As shown in Table 3-3, PCB 1254 and TPH were detected in B11SW03 at concentrations of 1.20 and 3,900,000 µg/L, respectively. Several TAL metals were also detected. PCB 1254 was detected in B11SED03 at 8,800 µg/kg. Water was also observed in a pit under the north end of the generator (Photo 38, Appendix D).

Because the engine and cooling system have been inactive for some time, the building water is turned off and since the roof is not known to leak, and the Caretakers indicated that water in the trench is observed only during wet weather, it is possible that the source of the water in the trench is locally high ground water. The Caretakers have indicated that they must pump out the electrical manholes in the Administration Area, particularly several near Building 11, in the days and sometimes weeks and months following a rain

event. Because the Summer of 1997 was unusually wet at FWDA, and because the gravel backfill associated with the utilities may allow ground water to pool locally, it is possible that water from the dry well was backing up into the building. The dry well cover was not observed during the field effort, therefore no testing could be performed at this discharge location.

Drains in the locomotive shop were observed to be plugged with sediment. Drains in the basement were not flow tested because they appeared to discharge to one of the sumps, which contained only a minimal amount of water.

3.5 *ACM SAMPLING*

An ACM survey was performed, using both the Pickering and previous EI Program surveys as a basis. Locations of previously identified ACM were verified and assessed for potential disturbance during PCB remedial activities, and 21 samples of additional suspect ACM were collected and analyzed. Figure 3-3 (Appendix A) shows the ACM sampling locations. Asbestos was detected in only two of the samples. One sample (B11ACM004) collected from the Fairbanks Morse generator exhaust packing contained 30 to 50 percent Chrysotile. The thermal packing is approximately 2 square feet in area. One sample (B11ACM013) collected from the Electrical Room door caulking contained 1 to 5 percent Chrysotile. The door caulking consisted of a sealing bead approximately 25 feet long. ACM survey documentation, both historical and current, is included in Appendix E.

It should again be noted that the ACM survey described herein was designed to support potential design efforts at areas that may require remediation for PCBs. If full ACM abatement is required, additional characterization will be necessary. For example, materials such as built-up roofing material have been identified as suspect ACM in previous surveys, but have not been sampled to date.

3.6 *OIL DRUM DISPOSAL*

During performance of the building evaluation activities, five 55-gallon drums were observed on their sides in the sand pit located at the east end of the north tracks (Photo 39, Appendix D). These drums appeared to be in good condition and were stenciled "0-204, OC, Lube Oil, Railway Car and Locomotive, VV-L-822, 9150-237-5447, May 1965, Batch-1211". The FWDA Caretakers indicated that the drums had been turned over to TPL when they received the locomotive.

Further inspection found two 5-gallon pails of a more viscous grease on their sides with the lids off, with some of the grease having leaked out onto the sand remaining in the pit. Following several telephone conversations with the USACE Technical Manager, it was determined that the drums needed to be removed from the pit so that an assessment of the extent of the spilled material could be made and the pit inspected.

TPL was contacted and asked to remove the drums, but denied ownership. Because of the date of manufacture and the lack of interest in the materials by TPL, the USACE Technical Manager directed PMC to remove the five drums and two pails plus any visibly contaminated materials, and then assess the need for further action.

The five drums were removed from the sand pit using a forklift and drum hoist. All five drums were labeled as lube oil and were in good condition with no leakage. All bungs were still sealed, indicating that the oils were unused product. The seals were removed and a clear drum sampler was inserted to withdraw a sample from each drum for characterization (Photo 40, Appendix D). The liquids were visually confirmed to be clean oils without other liquid fractions. PCB test kits were used to assess the PCB content of the oils. The results of the test kits are summarized in Table 3-2. Four of the five drums were found to contain between 50 and 500 ppm PCBs, and thus were "PCB-Contaminated" oils. All five drums were overpacked in 85-gallon steel salvage drums and labeled for disposal.

After the drums had been removed and the pit determined to be less than 5 feet deep, PMC personnel entered the pit and removed the two pails. The pails were found to be mostly empty, their contents having leaked onto the sand and debris in the pit. The highly viscous grease had solidified but remained flexible. All visibly impacted materials (including sand, lumber, and metal debris) were removed and overpacked with the two pails in a 55-gallon Department of Transportation (DOT) approved drum.

Because the PCB test kit results indicated that the majority of the oils were "PCB-Contaminated," the USACE Technical Manager directed that all of the materials recovered from the pit be disposed of as TSCA wastes. Safety-Kleen of Albuquerque, New Mexico, was contracted for disposal. All materials were shipped to the ENSCO facility in El Dorado, Arkansas, for incineration. A copy of disposal documentation is included in Appendix F.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

Because of the historic use of Building 11 as a locomotive repair shop and main electrical switching/distribution station and based on the findings of the initial characterization efforts, the presence of PCBs were expected. In this regard, the nature and potential source(s) of identified PCBs (e.g., resulting from a spill), timeframe, volume, and PCB content of spilled material, from which applicable regulations and cleanup levels could be established are uncertain. The primary focus of the current investigation program was to more completely characterize the building structure and equipment regarding PCB contamination by comparison to conservative TSCA and/or through the presence or absence of PCBs as a measure of the potential occurrence and impact (if any) to the environment. Because the source(s) of PCBs in the building are not from "new" spills, a case-by-case determination of applicable/appropriate cleanup levels with USEPA/State of New Mexico will be required.

The results of the wipe sampling confirmed the initial characterization efforts. PCBs were detected in 76 of the 103 wipe samples collected from surfaces located throughout the building and from stained as well as unstained areas. Twenty-nine samples exceeded the TSCA surface cleanup level of 10 $\mu g/100\ cm^2$ used for comparison purposes. Although future use of Building 11 appears to be continued use as a repair shop and/or for industrial-maintenance activities, further remediation of the building structure may be required.

PCBs were detected in 24 of 28 concrete chip samples collected with PCB results ranging from 51 to 240,000,000 µg/kg. Although results indicate that PCBs have seeped into the concrete flooring in some locations, exposure to levels greater than potential TSCA soil cleanup levels of 1 ppm is mitigated by the concrete floors themselves. The stained location in the Transformer Vault was the source of the highest concrete chip PCB concentration and is likely to represent the thick stain and not the concrete. Therefore, these results suggest that remediation of the concrete floors appears unnecessary at this time, pending negotiation with the regulatory agencies. Five concrete cores were then drilled at co-locations with chip samples. Three of the concrete cores located in the Electrical Room and the Transformer Vault detected PCBs throughout the core sample. However, the PCB concentration

at the last interval in each instance was below 1 ppm (a potential TSCA soil clean up level).

PCBs were also detected in paint chip samples collected from areas of peeling paint in the Shop and the Electrical Room. While neither of the paint colors sampled represented the painted floors, it is possible that the paint used on painted floors also contains PCBs. It is also likely, given the results of the lead-based paint (LBP) inspection conducted for other buildings at FWDA, that these painted surfaces are LBP as well. If that is the case, the LBP issues may require resolution under Army applicable/appropriate policies regarding Base Realignment and Closure (BRAC) properties.

The findings of the dielectric fluid and oil sampling were that OCB #9 located in the Transformer Vault (in service) was found to contain PCB oil. The other eight OCBs (also in service) were found to contain non-PCB oil. The crankcase of the inactive Fairbanks Morse generator in the Electrical Room Engine Pit was found to contain PCB oil. The Caterpillar generator in the Electrical Room was found to contain non-PCB oil.

It appears that the locomotive trench floor drains which discharge to the sanitary sewer system may have allowed PCBs to discharge from the building. The potential impacts to the environment are unknown. In addition, the sumps in the basement, the trench in the Engine Pit, and the earthen-bottomed utility trench in the Shop have also been impacted by past building practices. The sump sediment and water sampling detected PCBs, TPH, and TAL metals (notably lead). These locations have provided a direct potential migration route for contaminants. While the general Building 11 location has been investigated as part of the EI Program, no site specific characterization has been performed in the vicinity to assess (or discount) potential impacts to the environment from past building practices.

The ACM survey identified two additional locations (in addition to those identified by Pickering) of ACM. At this point in time, until the nature of proposed remedial activities (if any) are determined, the potential to disturb areas containing identified ACM is unknown. However, should the Fairbanks Morse generator located in the Electrical Room be proposed for dismantling/removal, ACM material existing within the thermal packing will be encountered.

4.2 *RECOMMENDATIONS*

It is recommended that negotiations be initiated with the regulatory agencies (USEPA/State of New Mexico) to address the historic use of Building 11 and

the reported PCB contamination and determine applicable/appropriate cleanup levels and required remediation. Based on the results of characterization sampling, it is recommended that materials in the locomotive service trenches, basement sumps, and Engine Pit trench be removed, containerized, and characterized for disposal, keeping different matrices separated as feasible.

The PCB oil in OCB #9 should be removed and replaced with non-PCB oil and the crankcase oil in the Fairbanks Morse generator should also be drained. These oils should then be properly disposed.

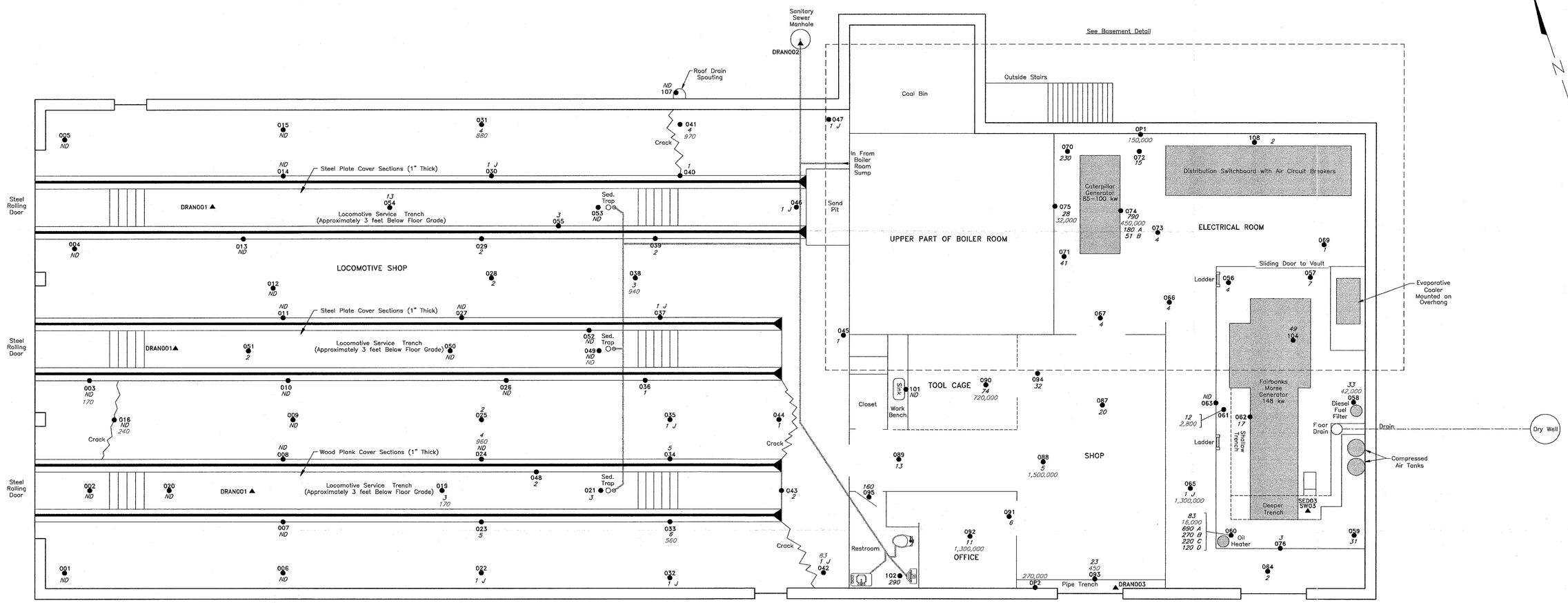
It is further recommended that the drain lines from the locomotive service trench drains be vacuumed or flushed (providing containment and collection of wash water at the sanitary sewer manhole), the materials containerized and characterized for proper disposal. The drains could then be abandoned by plugging with concrete if the Army no longer intends to use them. If the drains are to remain in use, it is likely that an oil/water separator would be required to meet current regulatory standards.

5.0 REFERENCES

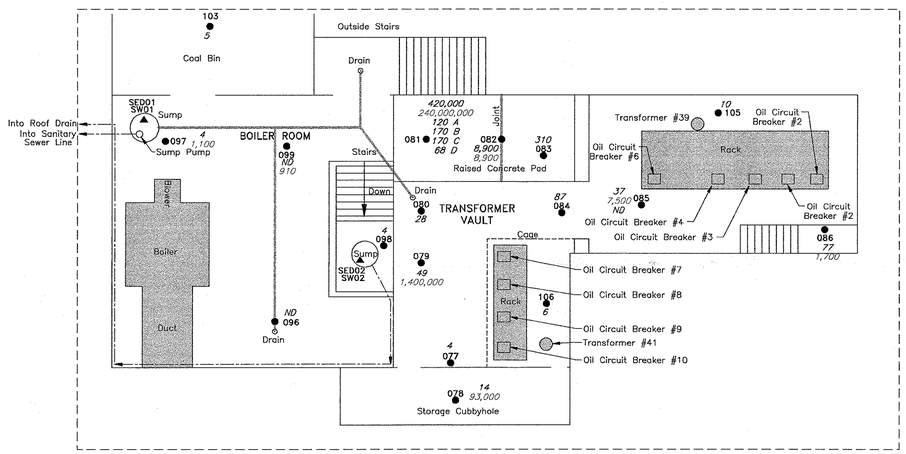
ERM, 1995. Revised Draft Final RI/FS Report, Fort Wingate Depot Activity, Gallup, NM. Environmental Resources Management, 24 March 1995.

Pickering, 1990. Final Asbestos Survey Report for Fort Wingate Defense Activity, Gallup, NM, Volume IV, Book 2. Pickering Environmental Consultants, Inc., 2 November 1990.

Appendix A
Building Drawings



Basement Detail



Note:

Sample DRAN001 was a composite of solid materials found in the bottom of all three locomotive service trenches.

Legend

- Approximate Pipeline
- ● PCB Sampling Location
- ▲ Characterization Sampling Location
- *83* Wipe Sample Result in µg/100cm²
- *16,000* Chip Sample Result in µg/kg
- *690 A* Core Sample result in µg/kg
- *ND* Not Detected

Source:
1. Addition to Locomotive House, Plumbing, Heating, & Electrical, Wingate Ordnance Depot, Ft. Wingate, New Mexico, Sheet 45, WO-CRI-5/45, U.S. Engineer Office, Albuquerque, NM, 1945.
2. Wingate Ordnance Depot, Electrical Distribution, Locomotive House (Rest of Title Block Illegible).
3. Wingate Ordnance Depot, Locomotive House, Foundation Plan & Details (Rest of Title Block Illegible).

5 0 5 10
Scale in Feet

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

Fort Wingate Depot Activity
Gallup, New Mexico
Contract No. DAAA15-91-D-0011, Delivery Orders DA05/04 & DA10
United States Army Environmental Center
Aberdeen Proving Ground, Maryland

Program Management Company
Exton, Pennsylvania 19341 (610) 280-5000

PMC

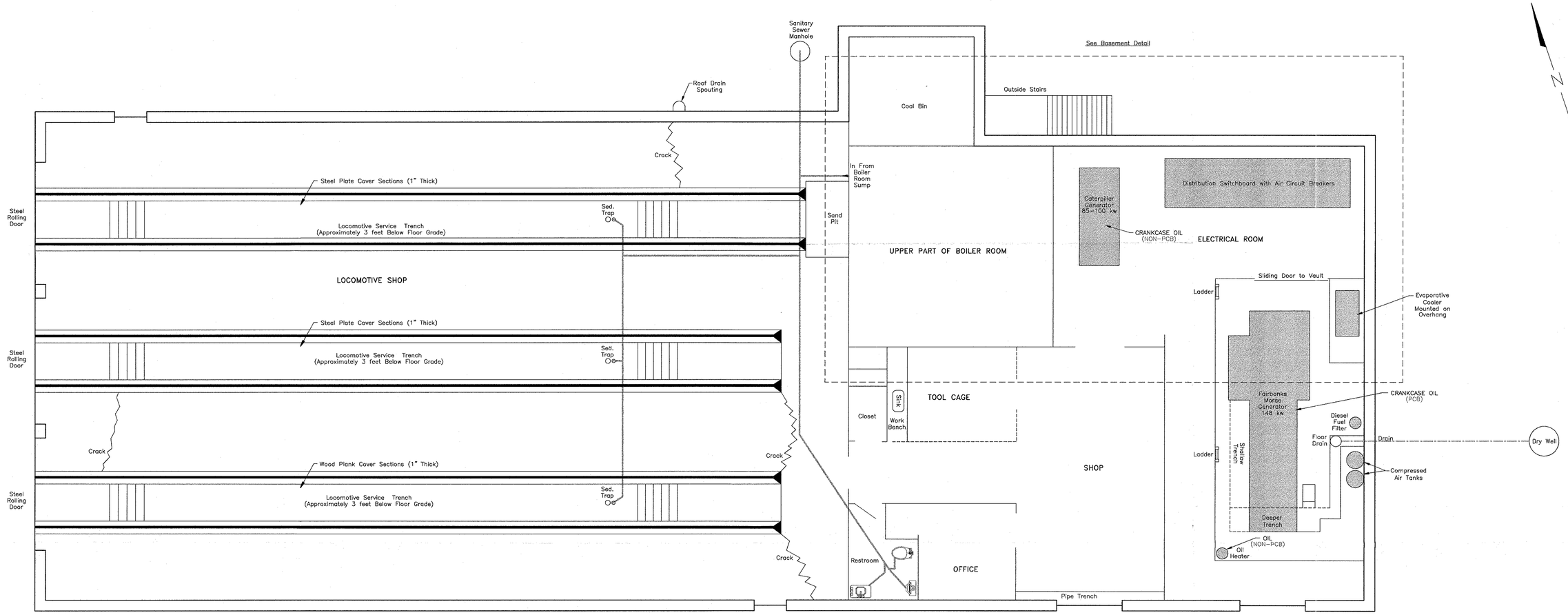
CHECKED	DATE	
DESIGN ENGINEER		
PROJECT ENGINEER		
PROJECT MANAGER		
APPROVED		
APPROVED		

Figure 3-1
Equipment Locations and Analytical Results
Building 11 PCB Investigation

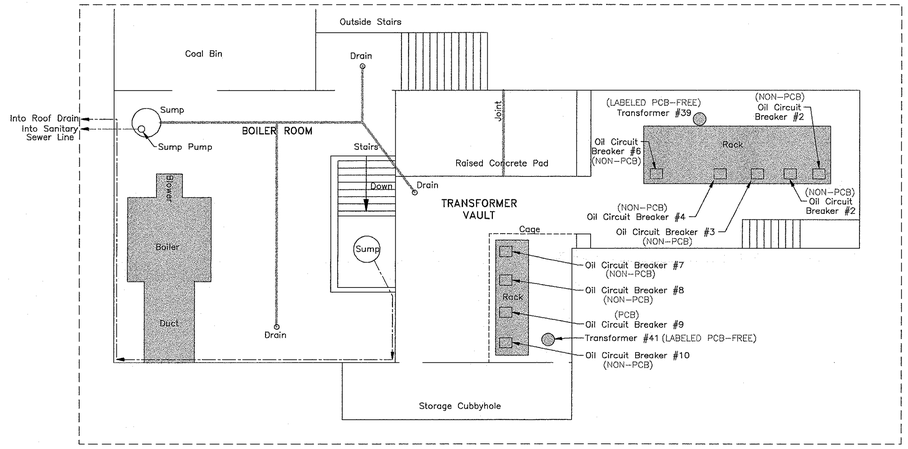
DRAWN D. Taylor/DST	DATE 12.01.97/03.09.98	CLIENT APPROVAL	
SCALE 1" = 5'	W.O. No. 00805.80.01/1301-2C	ISSUED FOR DATE	SHEET OF

DRAWING NO.

REV. NO.



Basement Detail



Legend

Approximate Pipeline

5 0 5 10
Scale in Feet

Source:
1. Addition to Locomotive House, Plumbing, Heating, & Electrical, Wingate Ordnance Depot, Ft. Wingate, New Mexico, Sheet 45, WQ-CRI-5/45, U.S. Engineer Office, Albuquerque, NM, 1945.
2. Wingate Ordnance Depot, Electrical Distribution, Locomotive House (Rest of Title Block Illegible).
3. Wingate Ordnance Depot, Locomotive House, Foundation Plan & Details (Rest of Title Block Illegible).

NO.	DATE	APPR.	REVISION

NO.	DATE	APPR.	REVISION

Fort Wingate Depot Activity
Gallup, New Mexico
Contract No. DAAA15-91-D-0011, Delivery Orders DA05/04 & DA10
United States Army Environmental Center
Aberdeen Proving Ground, Maryland

Program Management Company
Exton, Pennsylvania 19341 (610) 280-5000

PMC

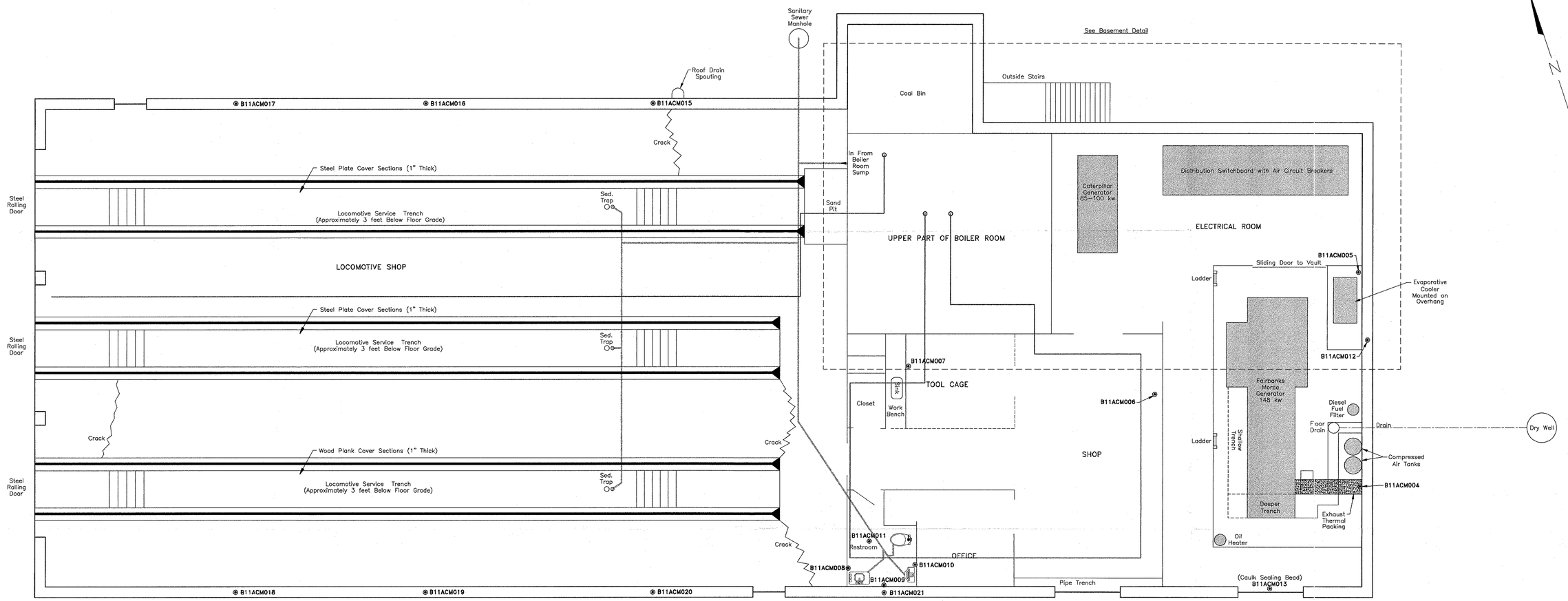
CHECKED	DATE	
DESIGN ENGINEER		
PROJECT ENGINEER		
PROJECT MANAGER		
APPROVED		
APPROVED		

Figure 3-2
PCB Test Kit Results
Building 11 PCB Investigation

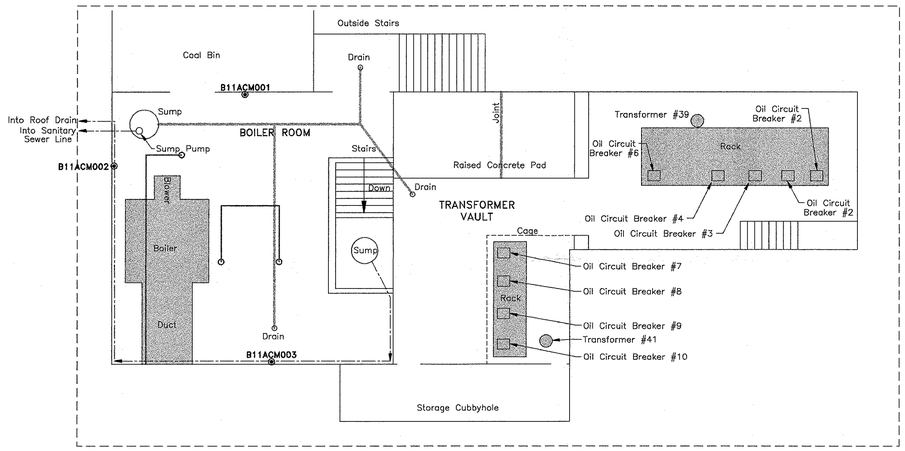
DRAWN D. Taylor/DST	DATE 12.01.97/03.09.98	CLIENT APPROVAL	
SCALE 1" = 5'	W.O. No. 00805.80.01/1301-3C	ISSUED FOR DATE	SHEET OF

DRAWING NO.

REV. NO.



Basement Detail



Legend

- Approximate Pipeline
- B11ACM004 ⊛ Pcsitive ACM Sampling Location
- B11ACM005 ⊛ Negative ACM Sampling Location
- ACM Identified by Pickering Environmental

Source:
1. Addition to Locomotive House, Plumbing, Heating, & Electrical, Wingate Ordnance Depot, Ft. Wingate, New Mexico, Sheet 45, WO-CRI-5/45, U.S. Engineer Office, Albuquerque, NM, 1945.
2. Wingate Ordnance Depot, Electrical Distribution, Locomotive House (Rest of Title Block Illegible).
3. Wingate Ordnance Depot, Locomotive House, Foundation Plan & Details (Rest of Title Block Illegible).

5 0 5 10
Scale in Feet

NO.	DATE	APPR.	REVISION

NO.	DATE	APPR.	REVISION

Fort Wingate Depot Activity
Gallup, New Mexico
Contract No. DAAA15-91-D-0011, Delivery Orders DA05/04 & DA10
United States Army Environmental Center
Aberdeen Proving Ground, Maryland

Program Management Company
Exton, Pennsylvania 19341 (610) 280-5000

PMC

CHECKED	DATE
DESIGN ENGINEER	
PROJECT ENGINEER	
PROJECT MANAGER	
APPROVED	
APPROVED	

Figure 3-3
ACM Survey Results
Building 11 PCB Investigation

DRAWN D. Taylor/DST	DATE 12.01.97/02.19.98	CLIENT APPROVAL	DRAWING NO.
SCALE 1" = 5'	W.O. No. 00805.80.01/1301-4C	ISSUED FOR DATE	REV. NO.
			SHEET OF

Appendix B
Equipment Inventory Sheets

Equipment Inventory Sheet
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Inspector Name: KAMMERER
Inspector Phone: 610 280 5065

Equipment Type	Location	Manufacturer	Date of Manufacture	Serial No.	Rating	PCB Content	Other Information
OIL CIRCUIT BREAKER #1	TRANSFORMER VAULT	GENERAL ELECTRIC	-	61877026I GE1-11306	240 V AC 120 V DC	< 50 ppm	HAS A DRY SOLENOID AND DRY TRANSFORMER, VERY SMALL
OCB #2	"	"	-	"	"	< 50 ppm	"
OCB #3	"	"	-	"	"	< 50 ppm	"
OCB #4	"	"	-	"	"	< 50 ppm	"
OCB #5	"	"	-	"	"	EMPTY	DISASSEMBLED, REMOVED FROM RACK, STORED IN
OCB #6	"	"	-	"	"	< 50 ppm	HAS A DRY SOLENOID CUBBY HOLE AND DRY TRANSFORMER, VERY SMALL
OCB #7	"	"	-	"	"	< 50 ppm	"
OCB #8	"	"	-	"	"	< 50 ppm	"
OCB #9	"	"	-	"	"	> 500 ppm	"

Equipment Inventory Sheet
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Inspector Name: KAMMERER
Inspector Phone: 610 280 5065

Equipment Type	Location	Manufacturer	Date of Manufacture	Serial No.	Rating	PCB Content	Other Information
OCB #10	TRANSFORMER VAULT	GENERAL ELECTRIC	-	687702G1 GE1-11306	240VAC 120VDC	< 50ppm	HAS A DRY SOLENOID AND DRY TRANSFORMER, VERY SMALL
STANDBY GENERATOR	ELECTRICAL ROOM / ENGINE PIT	FAIRBANKS MORSE	-	-	148 kW	> 500	LOOKS LIKE PURE ASKAREL OIL (?)
STANDBY GENERATOR	ELECTRICAL ROOM	CATERPILLAR	-	-	85-100kW	< 50ppm	
AIR CIRCUIT BREAKERS	ELECTRICAL ROOM					DRY	MOUNTED IN PANEL ON NORTH SIDE OF ROOM
AIR SWITCHGEAR	ELECTRICAL ROOM					DRY	"
OIL HEATER/ WATER HEATER	ENGINE PIT					< 50ppm MAY BE SAME	AS FAIRBANKS MORSE ABOVE
COMPRESSED AIR TANKS	ENGINE PIT						AIR TANKS AND PIPING TO START GENERATOR
FUEL FILTER	ENGINE PIT						FLOOR MOUNTED DIESEL FUEL FILTER AND PIPING
EVAP. COOLER	ABOVE ENGINE PIT						MOUNTED ON OVERHANG W/ PIPING TO COOL GENERATOR

Equipment Inventory Sheet
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Inspector Name: KAMMERER
Inspector Phone: 610 280 5065

Equipment Type	Location	Manufacturer	Date of Manufacture	Serial No.	Rating	PCB Content	Other Information *INFO
TRANSFORMER #39	TRANSFORMER VAULT	*	*	*	15 KVA	CERTIFIED NON-PCB	~~DATA~~ LIMITED BECAUSE ITEM WAS ENERGIZED DURING INVENTORY
TRANSFORMER #41	TRANS. VAULT	*	*	*	15 KVA	CERTIFIED NON-PCB	SAME AS ABOVE

Appendix C
Analytical Data

PCB Samples

Table C-1
PCB Analytical Result Summary
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE001	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE002	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE003	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP003	9/18/97	Locomotive Shop floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	170.00	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE004	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE005	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE006	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE007	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE008	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE009	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE010	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE011	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE012	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE013	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE014	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE015	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE016	8/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP016	9/18/97	Locomotive Shop floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	240.00	µg/kg

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE017	8/20/97	Template wipe blank (equipment blank)	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE018	8/20/97	Wipe blank	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE019	8/21/97	Locomotive Shop south trench	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	3.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP019	8/21/97	Locomotive Shop south trench	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	170.00	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE020	8/21/97	Locomotive Shop south trench	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE021	8/21/97	Locomotive Shop south trench	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	3.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE022	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	1 J	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE023	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	5.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE024	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	4.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP024	9/18/97	Locomotive Shop floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	960.00	µg/kg
			Aroclor 1260	ND	µg/kg
B11CORE024A	9/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	ND	µg/kg
B11CORE024B	9/20/97	Locomotive Shop floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	ND	µg/kg

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE025	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	2.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE026	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE027	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE028	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	2.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE029	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	2.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE030	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	1 J	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE031	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	4.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP031	10/11/97	Locomotive Shop floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	880.00	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE032	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	1 J	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE033	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	6.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP033	9/18/97	Locomotive Shop floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	560.00	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE034	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	5.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE035	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	1 J	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE036	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	ug/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	1.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE037	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	1 J	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE038	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	3.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP038	9/18/97	Locomotive Shop floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	940.00	µg/kg
B11WIPE039	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	2.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE040	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	1.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE041	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	4.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP041	9/18/97	Locomotive Shop floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	970.00	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE042	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	1 J	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP042	9/18/97	Locomotive Shop floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	83.00	µg/kg
B11WIPE043	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	2.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE044	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	1.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE045	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	1.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE046	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	1 J	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE047	8/22/97	Locomotive Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	1 J	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE048	8/22/97	Locomotive Shop south trench wall	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	2.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE049	8/22/97	Locomotive Shop middle trench	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11CHIP049	8/22/97	Locomotive Shop middle trench	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE050	8/22/97	Locomotive Shop middle trench	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE051	8/22/97	Locomotive Shop middle trench	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	2.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE052	8/22/97	Locomotive Shop middle trench wall	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE053	8/22/97	Locomotive Shop north trench	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE054	8/22/97	Locomotive Shop north trench	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	13.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE055	8/22/97	Locomotive Shop north trench wall	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	3.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE056	8/22/97	Electrical Room engine pit	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	4.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE057	8/22/97	Electrical Room engine pit	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	7.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE058	8/22/97	Electrical Room engine pit	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	33.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP058	9/18/97	Electrical Room engine pit	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	42,000	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE059	8/22/97	Electrical Room engine pit	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	31.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE060	8/22/97	Electrical Room engine pit	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	83.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP060	9/18/97	Electrical Room engine pit	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	16,000	µg/kg
			Aroclor 1260	ND	µg/kg
B11CORE060A	9/20/97	Electrical Room engine pit	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	690.00	µg/kg
			Aroclor 1260	ND	µg/kg
B11CORE060B	9/20/97	Electrical Room engine pit	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	270.00	µg/kg
			Aroclor 1260	ND	µg/kg
B11CORE060C	9/20/97	Electrical Room engine pit	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	220.00	µg/kg
			Aroclor 1260	ND	µg/kg
B11CORE060D	9/20/97	Electrical Room engine pit	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	120.00	µg/kg
			Aroclor 1260	ND	µg/kg

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE061	8/22/97	Electrical Room engine pit	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	12.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP061	8/22/97	Electrical Room engine pit	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	2,800.00	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE062	8/22/97	Electrical Room engine pit, side of engine	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	17.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE063	8/22/97	Electrical Room engine pit wall	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE064	8/22/97	Electrical Room floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	2.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE065	8/22/97	Electrical Room floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	1 J	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11CHIP065	9/18/97	Electrical Room floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	1,300,000	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE066	8/22/97	Electrical Room floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	4.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE067	8/22/97	Electrical Room floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	4.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE068	8/22/97	Template wipe blank	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE069	8/23/97	Electrical Room floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	1.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE070	8/23/97	Electrical Room floor, near small generator	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	230.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE071	8/23/97	Electrical Room floor, near small generator	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	41.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE072	8/23/97	Electrical Room floor, near small generator	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	15.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE073	8/23/97	Electrical Room floor, near small generator	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	4.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE074	8/23/97	Electrical Room floor, near small generator	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	790.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP074	9/18/97	Electrical Room floor, near small generator	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	450,000	µg/kg
			Aroclor 1260	ND	µg/kg
B11CORE074A	9/20/97	Electrical Room floor, near small generator	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	180.00	µg/kg
			Aroclor 1260	ND	µg/kg

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11CORE074B	9/20/97	Electrical Room floor, near small generator	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	51.00	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE075	8/23/97	Electrical Room wall, near small generator	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	28.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP075	9/18/97	Electrical Room wall, near small generator	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	32,000	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE076	8/23/97	Electrical Room engine pit wall	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	3.00	µg/100 cm^2
B11WIPE077	8/23/97	Transformer Vault floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	4.00	µg/100 cm^2
B11WIPE078	8/23/97	Transformer Vault floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	14.00	µg/100 cm^2

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Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11CHIP078	9/18/97	Transformer Vault floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	93,000	µg/kg
B11WIPE079	8/23/97	Transformer Vault floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	49.00	µg/100 cm^2
B11CHIP079	9/18/97	Transformer Vault floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	1,400,000	µg/kg
B11WIPE080	8/23/97	Transformer Vault floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	28.00	µg/100 cm^2
B11WIPE081	8/23/97	Transformer Vault slab	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	420,000.00	µg/100 cm^2
B11CHIP081	9/18/97	Transformer Vault slab	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	240,000,000	µg/kg

Table C-1
PCB Analytical Result Summary
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11CORE081A	9/20/97	Transformer Vault slab	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	120.00	µg/kg
B11CORE081B	9/20/97	Transformer Vault slab	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	170.00	µg/kg
B11CORE081C	9/20/97	Transformer Vault slab	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	170.00	µg/kg
B11CORE081D	9/20/97	Transformer Vault slab	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	68.00	µg/kg
B11WIPE082	8/23/97	Transformer Vault slab	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	8,900.00	µg/100 cm^2
B11CHIP082	9/18/97	Transformer Vault slab	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	8,900.00	µg/kg

Table C-1
PCB Analytical Result Summary
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE083	8/23/97	Transformer Vault slab	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	310.00	µg/100 cm^2
B11WIPE084	8/23/97	Transformer Vault floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	87.00	µg/100 cm^2
B11WIPE085	8/23/97	Transformer Vault floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	37.00	µg/100 cm^2
B11CHIP085	9/18/97	Transformer Vault floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	7,500.00	µg/kg
B11CORE085A	9/20/97	Transformer Vault floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE086	8/23/97	Transformer Vault floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	77.00	µg/100 cm^2

Table C-1
PCB Analytical Result Summary
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11CHIP086B	9/18/97	Transformer Vault floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	1,700.00	µg/kg
B11WIPE087	8/23/97	Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	20.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE088	8/23/97	Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	5.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP088	9/18/97	Shop floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	1,500,000	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE089	8/23/97	Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	13.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE090	8/23/97	Tool Cage floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	74.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2

Table C-1
PCB Analytical Result Summary
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11CHIP090	9/18/97	Tool Cage floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	720,000	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE091	8/23/97	Office floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	6.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE092	8/23/97	Office floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	11.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP092	9/18/97	Office floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	1,300,000	µg/kg
			Aroclor 1260	ND	µg/kg
B11WIPE093	8/23/97	Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	23.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP093	9/18/97	Shop floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	450.00	µg/kg

Table C-1
PCB Analytical Result Summary
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE094	8/23/97	Shop floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	32.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE095	8/23/97	Restroom floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	160.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE096	8/23/97	Boiler Room floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE097	8/23/97	Boiler Room floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	4.00	µg/100 cm^2
B11CHIP097	9/18/97	Boiler Room floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	1,100.00	µg/kg
B11WIPE098	8/23/97	Base of stairs from Boiler Room to Vault	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	4.00	µg/100 cm^2

Table C-1
PCB Analytical Result Summary
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE099	8/23/97	Boiler Room floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11CHIP099	9/18/97	Boiler Room floor	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	910.00	µg/kg
B11WIPE100	8/23/97	Template wipe blank	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE101	9/18/97	Tool Cage sink	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE102	9/18/97	Restroom floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	290.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE103	9/18/97	Coal Bin floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	5.00	µg/100 cm^2

Table C-1
PCB Analytical Result Summary
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11WIPE104	9/18/97	Electrical Room engine pit, trough under gen.	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	49.00	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE105	9/18/97	Transformer Vault floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	10.00	µg/100 cm^2
B11WIPE106	9/18/97	Transformer Vault floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	6.00	µg/100 cm^2
B11WIPE107	9/18/97	Roof downspout at sump pump discharge	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	ND	µg/100 cm^2
B11WIPE108	9/20/97	Electrical Room floor	Aroclor 1016	ND	µg/100 cm^2
			Aroclor 1221	ND	µg/100 cm^2
			Aroclor 1232	ND	µg/100 cm^2
			Aroclor 1242	ND	µg/100 cm^2
			Aroclor 1248	ND	µg/100 cm^2
			Aroclor 1254	ND	µg/100 cm^2
			Aroclor 1260	2.00	µg/100 cm^2

Table C-1
PCB Analytical Result Summary
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11CHIP0P1	9/18/97	Electrical Room, chip of wall paint near small gen.	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	150,000	µg/kg
B11CHIP0P2	9/18/97	Shop, chip of wall paint near door to exterior	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	270,000	µg/kg
			Aroclor 1260	ND	µg/kg

ND Not Detected
µg/kg Micrograms per Kilogram
µg/100 cm^2 Micrograms per 100 Square Centimeters

Characterization Samples

Table C-2
Characterization Sample Result Summary
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11DRAN001	8/23/97	Locomotive Shop, composite of all three service trenches	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	ND	µg/kg
			TPH	11,000,000	µg/kg
			Aluminum	12,000	mg/kg
			Antimony	ND	mg/kg
			Arsenic	5.52	mg/kg
			Barium	320	mg/kg
			Berylium	ND	mg/kg
			Cadmium	2.42	mg/kg
			Calcium	23,000	mg/kg
			Chromium	73.00	mg/kg
			Cobalt	4.30	mg/kg
			Copper	110	mg/kg
			Iron	9,000	mg/kg
			Lead	245	mg/kg
			Magnesium	5,000	mg/kg
			Manganese	220	mg/kg
			Nickel	19.00	mg/kg
			Potassium	3,400	mg/kg
			Selenium	1.58	mg/kg
			Silver	ND	mg/kg
			Sodium	1,400	mg/kg
			Thallium	ND	mg/kg
			Vanadium	16.00	mg/kg
			Zinc	420	mg/kg
			Mercury	ND	mg/kg
B11DRAN002	9/19/97	Sanitary sewer manhole sediment at Bldg. 11 lateral	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	210	µg/kg
B11DRAN003	9/18/97	Shop pipe trench, earthen trench bottom	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	21,000	µg/kg
			Aroclor 1260	ND	µg/kg

Table C-2
Characterization Sample Result Summary
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11SW01	9/18/97	Boiler room sump, northwest corner of room	Aroclor 1016	ND	µg/L
			Aroclor 1221	ND	µg/L
			Aroclor 1232	ND	µg/L
			Aroclor 1242	ND	µg/L
			Aroclor 1248	ND	µg/L
			Aroclor 1254	7.00	µg/L
			Aroclor 1260	ND	µg/L
			TPH	77,000	µg/L
			Aluminum	31.00	mg/L
			Antimony	ND	mg/L
			Arsenic	0.18	mg/L
			Barium	2.50	mg/L
			Beryllium	ND	mg/L
			Cadmium	0.03	mg/L
			Calcium	270	mg/L
			Chromium	0.14	mg/L
			Cobalt	0.03	mg/L
			Copper	11.00	mg/L
			Iron	220	mg/L
			Lead	1.70	mg/L
			Magnesium	57.00	mg/L
			Manganese	2.00	mg/L
			Nickel	0.19	mg/L
			Potassium	51.00	mg/L
			Selenium	0.02	mg/L
			Silver	ND	mg/L
			Sodium	65.00	mg/L
			Thallium	ND	mg/L
			Vanadium	0.07	mg/L
			Zinc	13.00	mg/L
			Mercury	0.00	mg/L
B11SED01	9/19/97	Boiler room sump, northwest corner of room	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	860	µg/kg
			TPH	2,000,000	µg/kg
			Aluminum	4,000	mg/kg
			Antimony	ND	mg/kg
			Arsenic	7.09	mg/kg
			Barium	310	mg/kg
			Beryllium	ND	mg/kg
			Cadmium	5.00	mg/kg
			Calcium	27,000	mg/kg
			Chromium	55.00	mg/kg
			Cobalt	6.00	mg/kg
			Copper	1,500	mg/kg
			Iron	33,000	mg/kg
			Lead	252	mg/kg
			Magnesium	8,800	mg/kg
			Manganese	250	mg/kg
			Nickel	37.00	mg/kg
			Potassium	1,600	mg/kg
			Selenium	ND	mg/kg
			Silver	ND	mg/kg
			Sodium	3,300	mg/kg
			Thallium	ND	mg/kg
			Vanadium	11.00	mg/kg
			Zinc	2,300	mg/kg
			Mercury	ND	mg/kg

Table C-2
Characterization Sample Result Summary
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11SW02	9/19/97	Boiler room sump, bottom of stairs to Transformer Vault	Aroclor 1016	ND	µg/L
			Aroclor 1221	ND	µg/L
			Aroclor 1232	ND	µg/L
			Aroclor 1242	ND	µg/L
			Aroclor 1248	ND	µg/L
			Aroclor 1254	5.00	µg/L
			Aroclor 1260	ND	µg/L
			TPH	3,100	µg/L
			Aluminum	0.96	mg/L
			Antimony	ND	mg/L
			Arsenic	0.02	mg/L
			Barium	0.24	mg/L
			Beryllium	ND	mg/L
			Cadmium	ND	mg/L
			Calcium	45.00	mg/L
			Chromium	ND	mg/L
			Cobalt	ND	mg/L
			Copper	0.08	mg/L
			Iron	5.50	mg/L
			Lead	0.02	mg/L
			Magnesium	12.00	mg/L
			Manganese	0.10	mg/L
			Nickel	ND	mg/L
			Potassium	25.00	mg/L
			Selenium	0.01	mg/L
			Silver	ND	mg/L
			Sodium	56.00	mg/L
			Thallium	0.01	mg/L
			Vanadium	ND	mg/L
			Zinc	0.23	mg/L
			Mercury	ND	mg/L
B11SED02	9/19/97	Boiler room sump, bottom of stairs to Transformer Vault	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	ND	µg/kg
			Aroclor 1260	3,900	µg/kg
			TPH	29,000,000	µg/kg
			Aluminum	3,000	mg/kg
			Antimony	ND	mg/kg
			Arsenic	5.60	mg/kg
			Barium	120	mg/kg
			Beryllium	ND	mg/kg
			Cadmium	1.92	mg/kg
			Calcium	19,000	mg/kg
			Chromium	26.00	mg/kg
			Cobalt	4.40	mg/kg
			Copper	170	mg/kg
			Iron	28,000	mg/kg
			Lead	292	mg/kg
			Magnesium	4,000	mg/kg
			Manganese	170	mg/kg
			Nickel	21.00	mg/kg
			Potassium	1,400	mg/kg
			Selenium	ND	mg/kg
			Silver	ND	mg/kg
			Sodium	710	mg/kg
			Thallium	ND	mg/kg
			Vanadium	8.40	mg/kg
			Zinc	590	mg/kg
			Mercury	ND	mg/kg

Table C-2
Characterization Sample Result Summary
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Sample Number	Sample Date	Sample Location	Parameter	Measured Concentration	Units
B11SW03	9/19/97	Electrical Room engine pit, trench drain	Aroclor 1016	ND	µg/L
			Aroclor 1221	ND	µg/L
			Aroclor 1232	ND	µg/L
			Aroclor 1242	ND	µg/L
			Aroclor 1248	ND	µg/L
			Aroclor 1254	1.20	µg/L
			Aroclor 1260	ND	µg/L
			TPH	3,900,000	µg/L
			Aluminum	ND	mg/L
			Antimony	ND	mg/L
			Arsenic	0.01	mg/L
			Barium	0.29	mg/L
			Beryllium	ND	mg/L
			Cadmium	ND	mg/L
			Calcium	51.00	mg/L
			Chromium	ND	mg/L
			Cobalt	ND	mg/L
			Copper	0.03	mg/L
			Iron	0.47	mg/L
			Lead	ND	mg/L
			Magnesium	5.90	mg/L
			Manganese	ND	mg/L
			Nickel	ND	mg/L
			Potassium	6.80	mg/L
			Selenium	ND	mg/L
			Silver	ND	mg/L
			Sodium	13.00	mg/L
			Thallium	0.01	mg/L
			Vanadium	ND	mg/L
			Zinc	ND	mg/L
			Mercury	ND	mg/L
B11SED03	9/19/97	Electrical Room engine pit, trench drain	Aroclor 1016	ND	µg/kg
			Aroclor 1221	ND	µg/kg
			Aroclor 1232	ND	µg/kg
			Aroclor 1242	ND	µg/kg
			Aroclor 1248	ND	µg/kg
			Aroclor 1254	8,800	µg/kg
			Aroclor 1260	ND	µg/kg

ND	Not Detected
µg/kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
mg/kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
TPH	Total Petroleum Hydrocarbons

Appendix D
Photographs

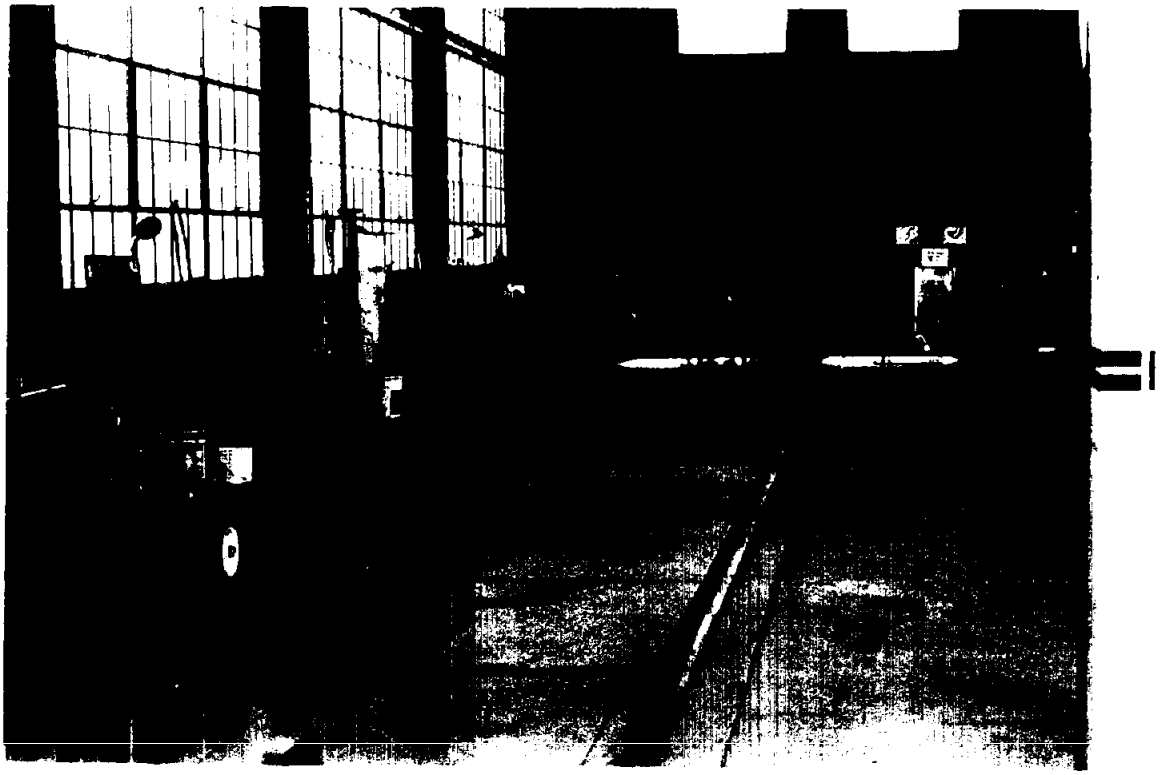


Photo 1. Locomotive Shop, north set of rails looking east.

Photo 2. Locomotive Shop, middle set of rails looking east. Machine in center is a gasoline-powered track tender.

Photo 3. Locomotive Shop, south set of rails looking east.

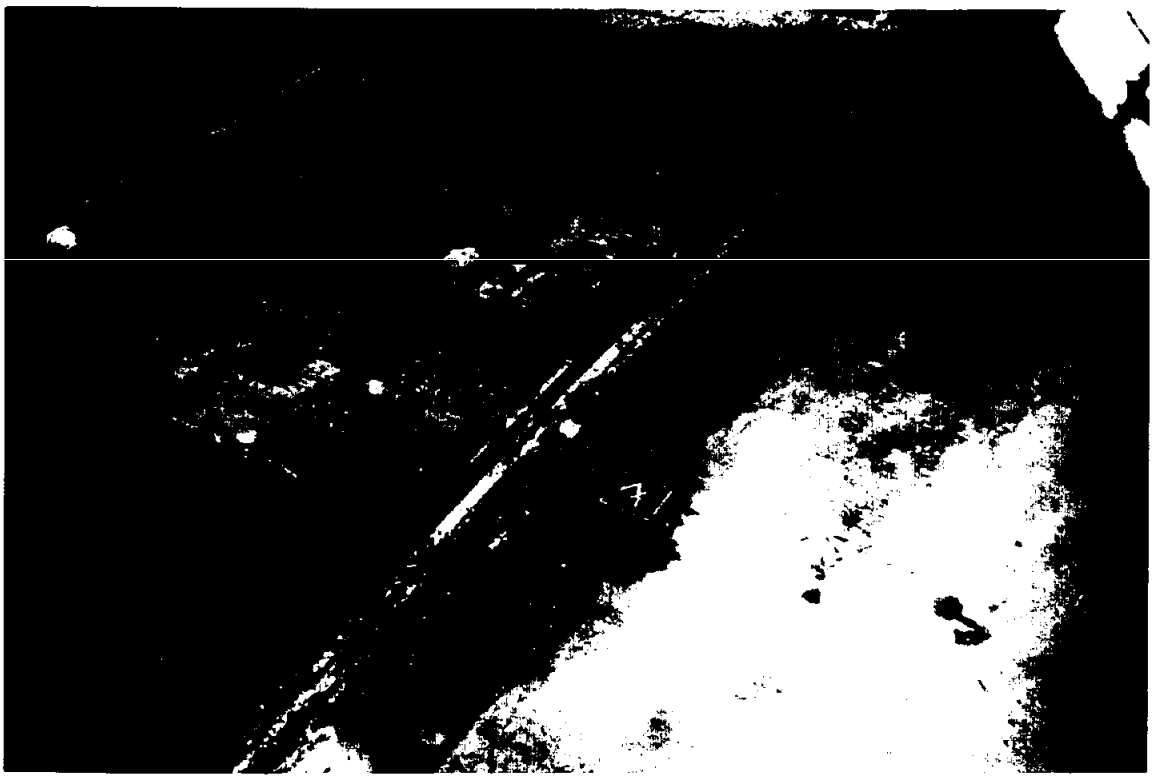


Photo 4. Locomotive Shop, south set of rails looking northeast, showing typical wipe sample location in heavy staining.

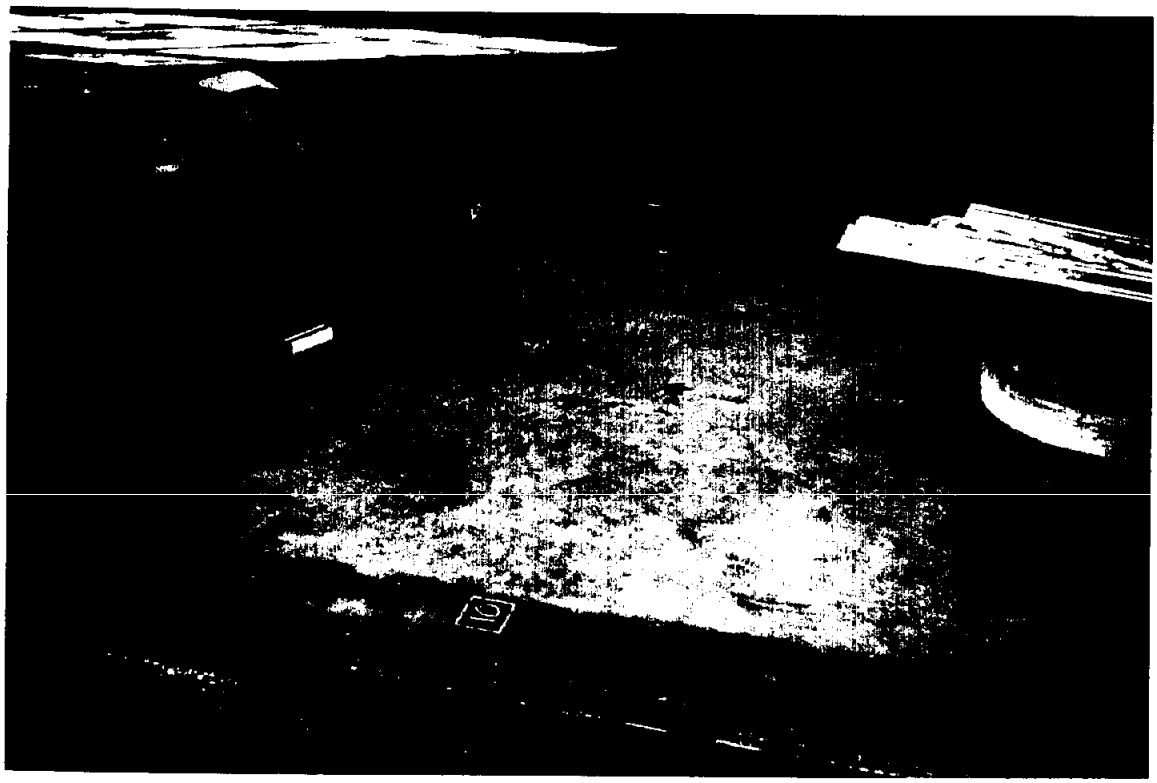


Photo 5. Locomotive Shop, between middle and south rails looking south, showing typical wipe sample locations in moderate staining (foreground) and clean areas (center).

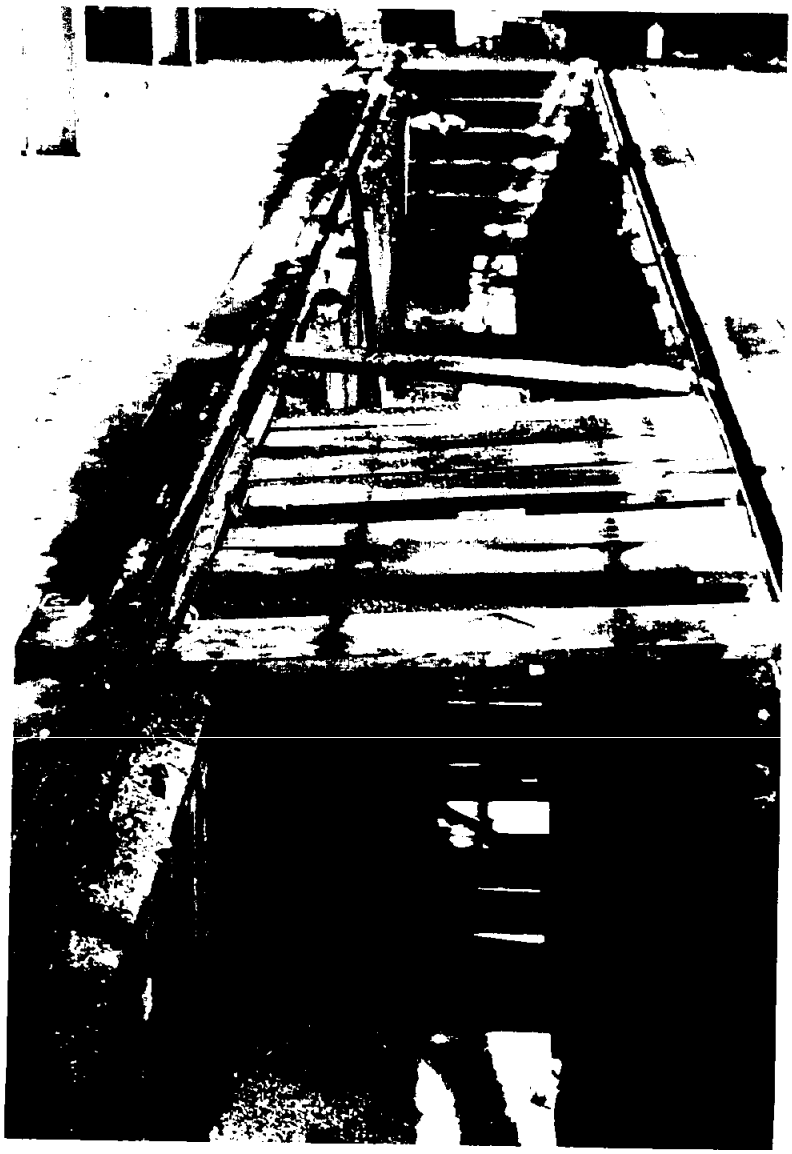


Photo 6. Locomotive Shop, south service trench looking east, showing debris, drip pan with oil filter, and drain at far end.

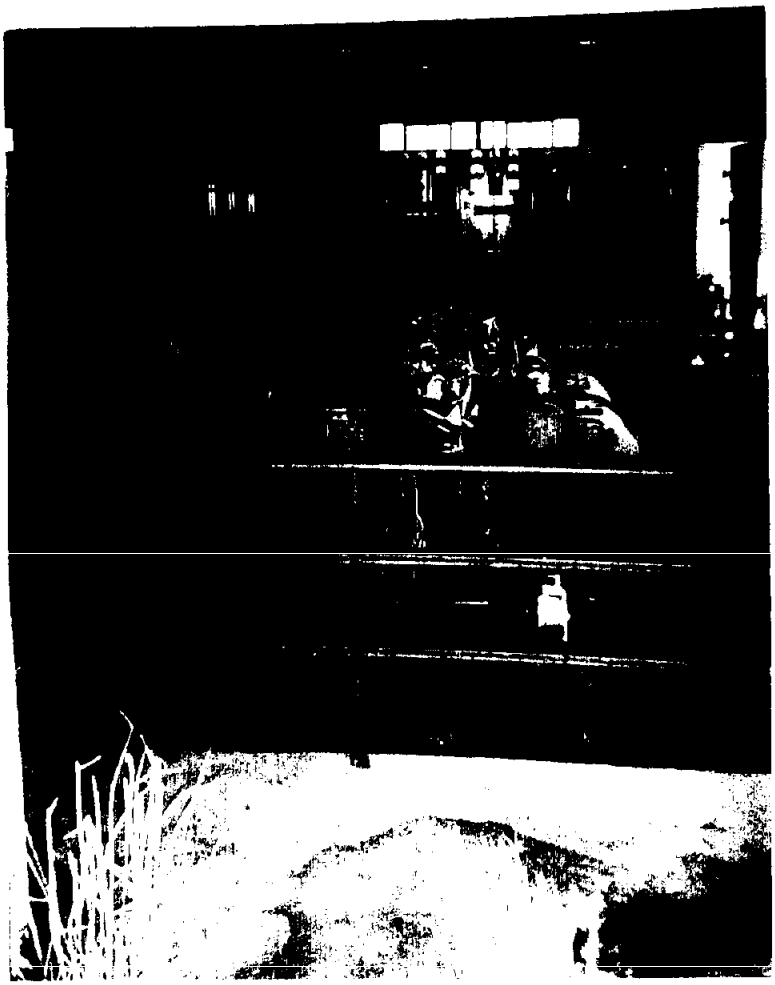


Photo 7. Electrical Room, looking north, showing Engine Pit and distribution switchboard (far wall).

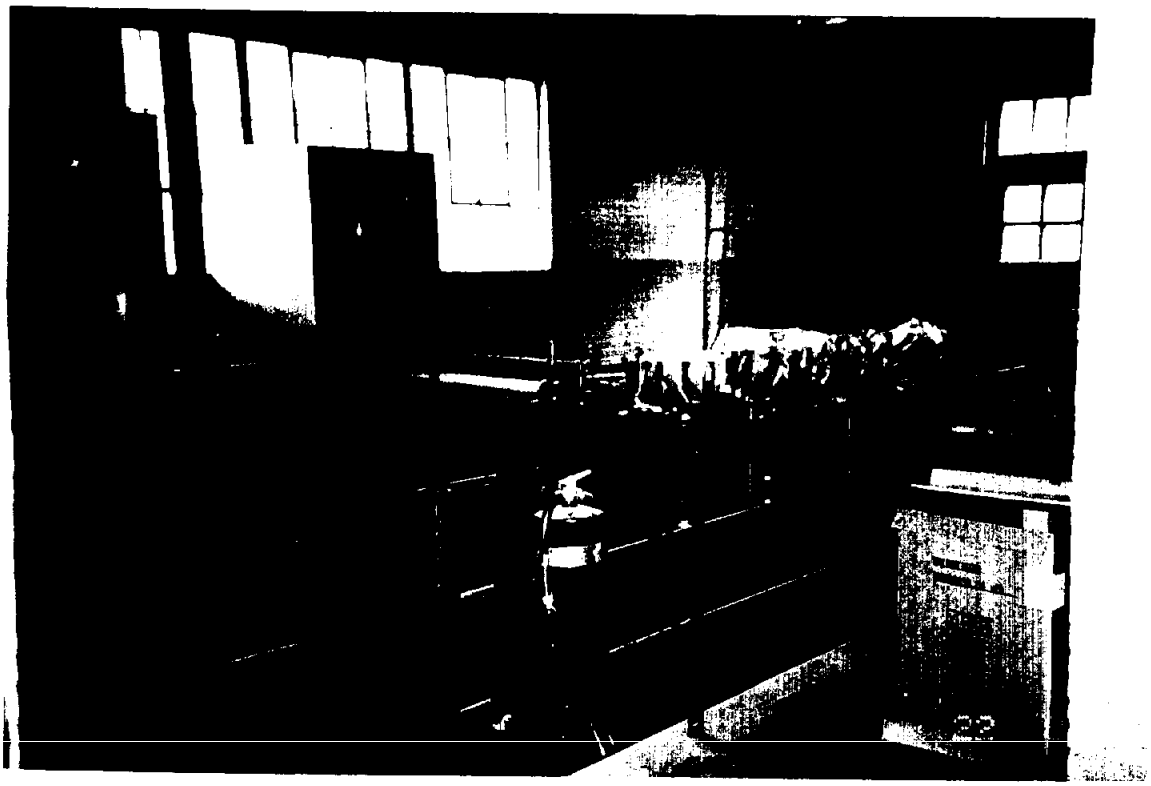


Photo 8. Electrical Room, looking south, showing Fairbanks Morse generator and appurtenances.

Photo 9. Electrical Room, northwest corner looking north, showing Caterpillar generator.

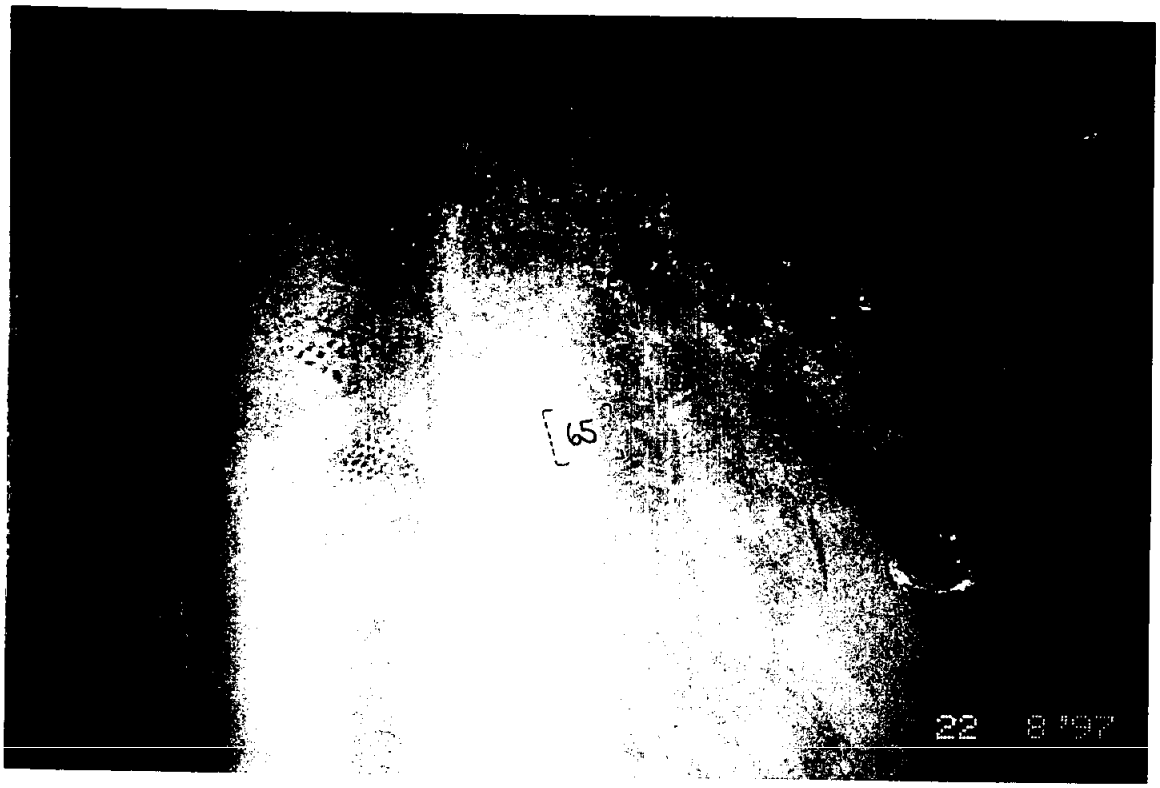


Photo 10. Electrical room, showing typical wipe sample location on clean, painted floor.

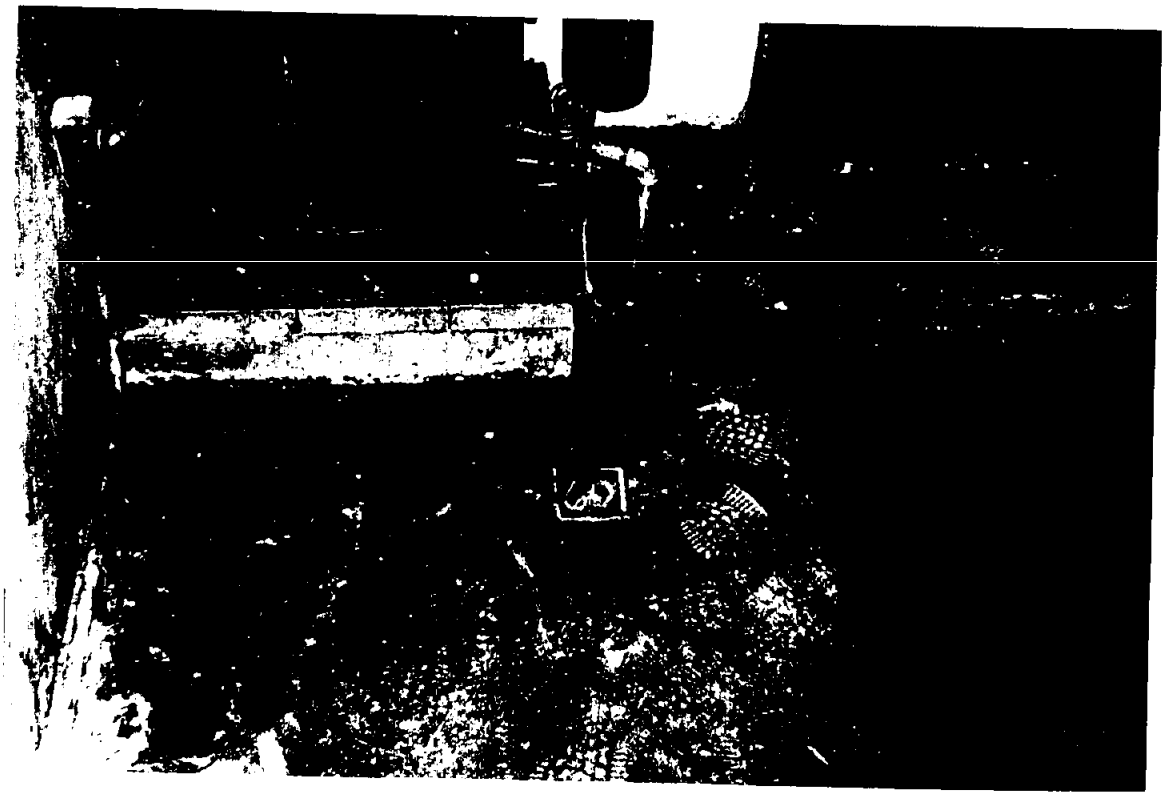


Photo 11. Electrical Room, southwest corner of Engine Pit at base of oil heater, showing typical wipe sample location in dirty/stained area.

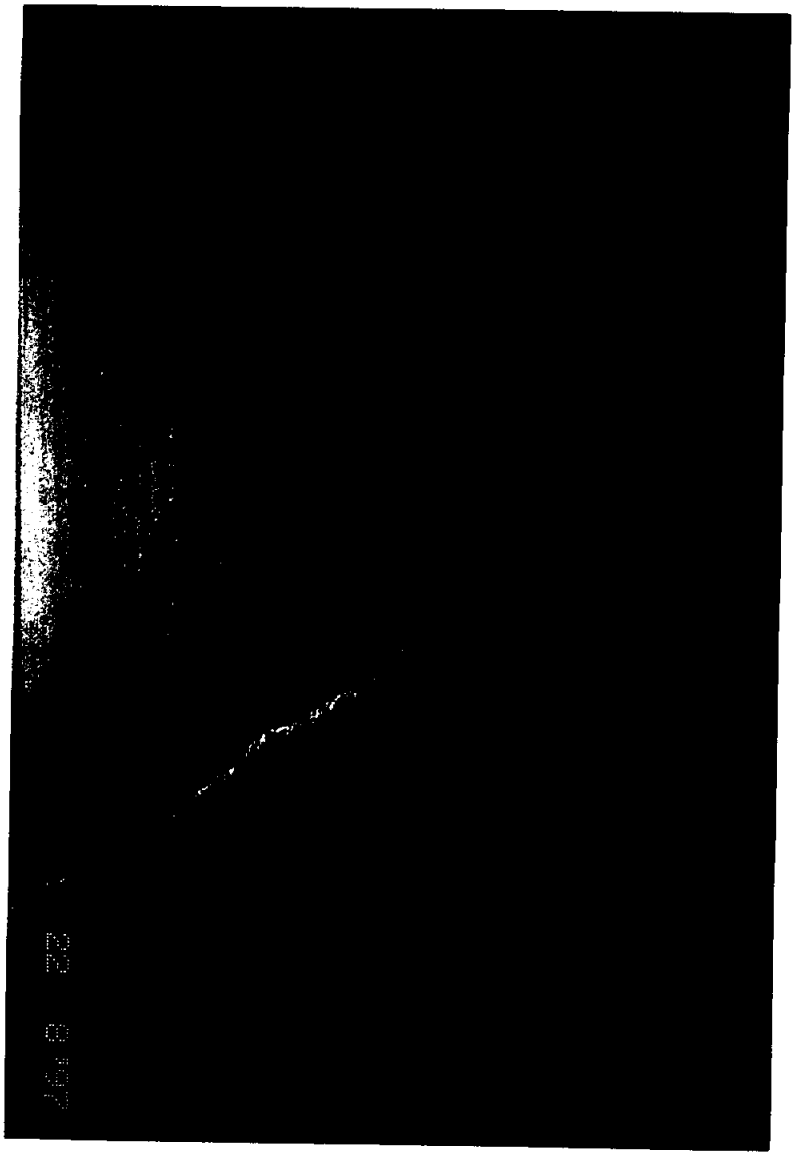


Photo 12. Electrical Room, west wall of Engine Pit, showing floor and wall sample locations. Crack next to location #61 is location of previous chip sample B11C04.

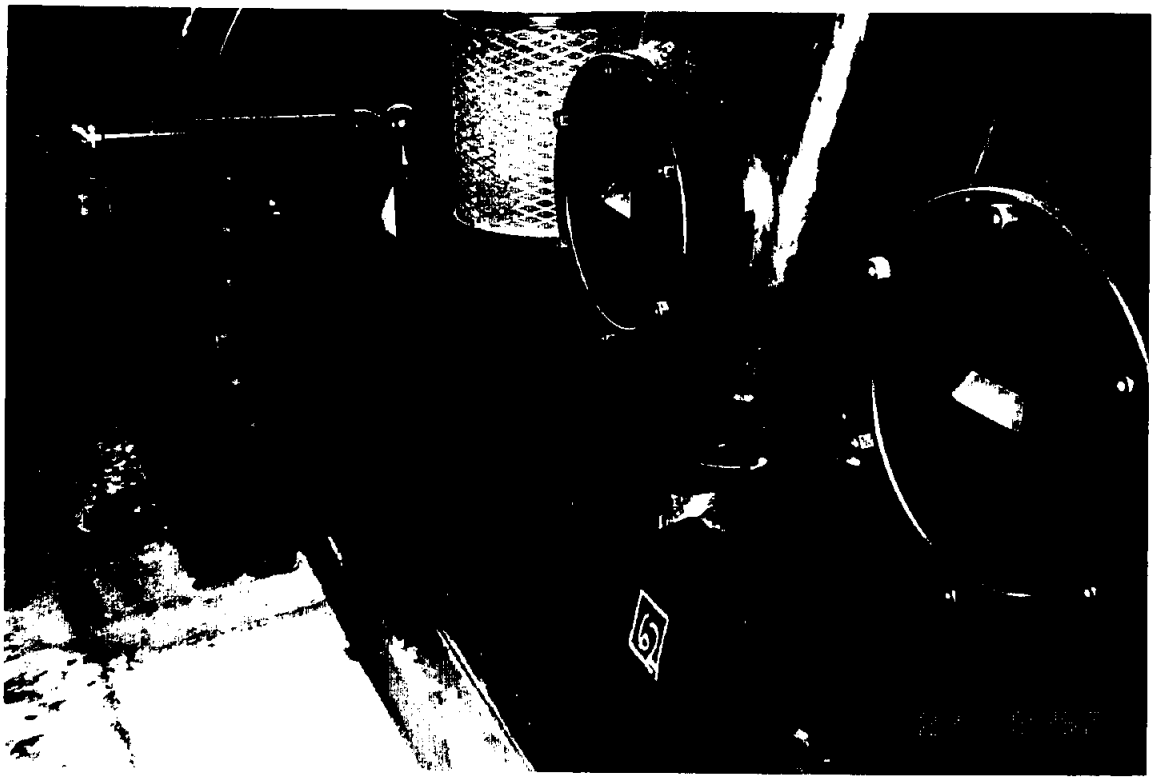


Photo 13. Electrical Room, Engine Pit, showing wipe sample on side of Fairbanks Morse Generator.

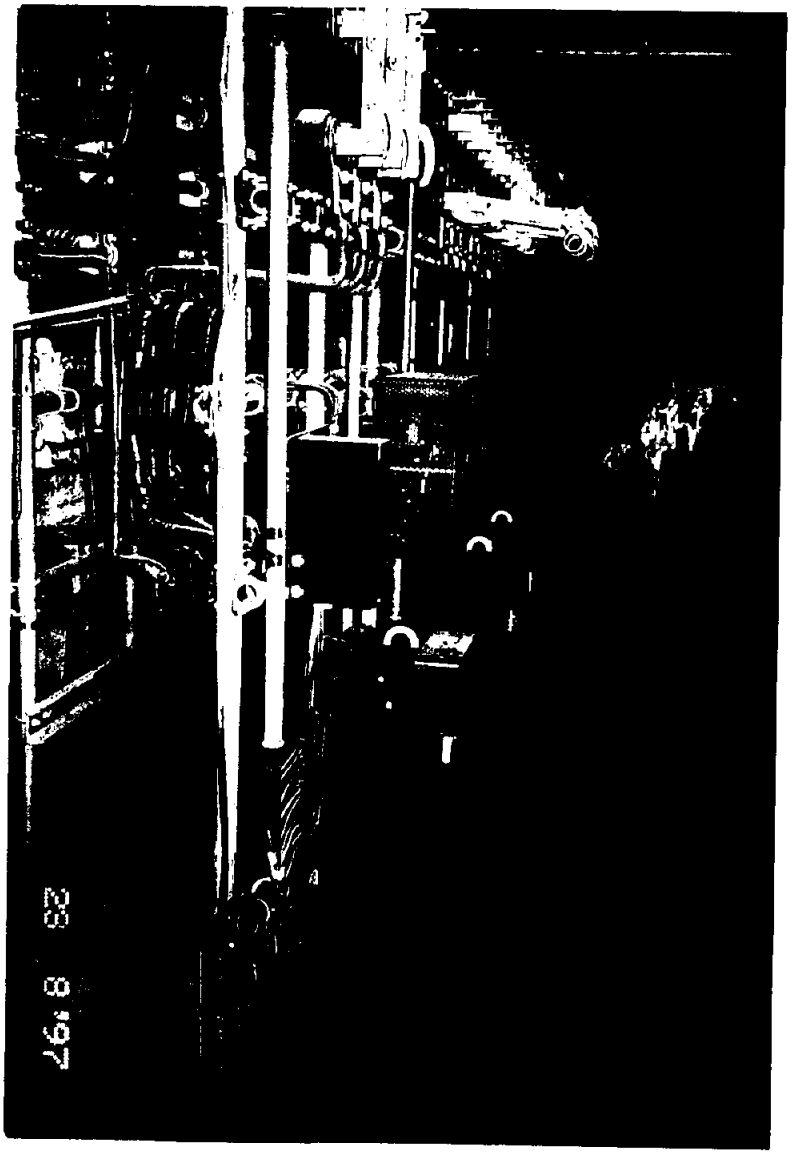


Photo 14. Transformer Fault, east room, showing clean floor.

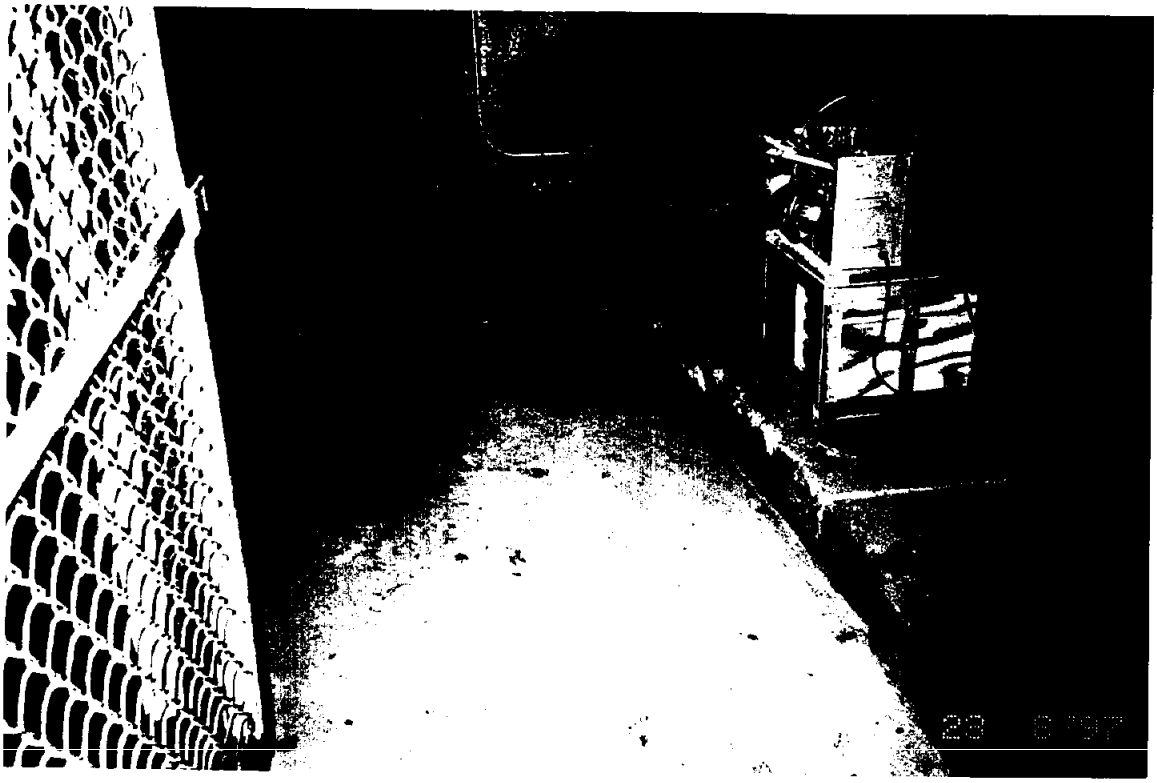


Photo 15. Transformer Vault, west room, showing raised concrete slab and heavy stain on right, floor drain at top center.

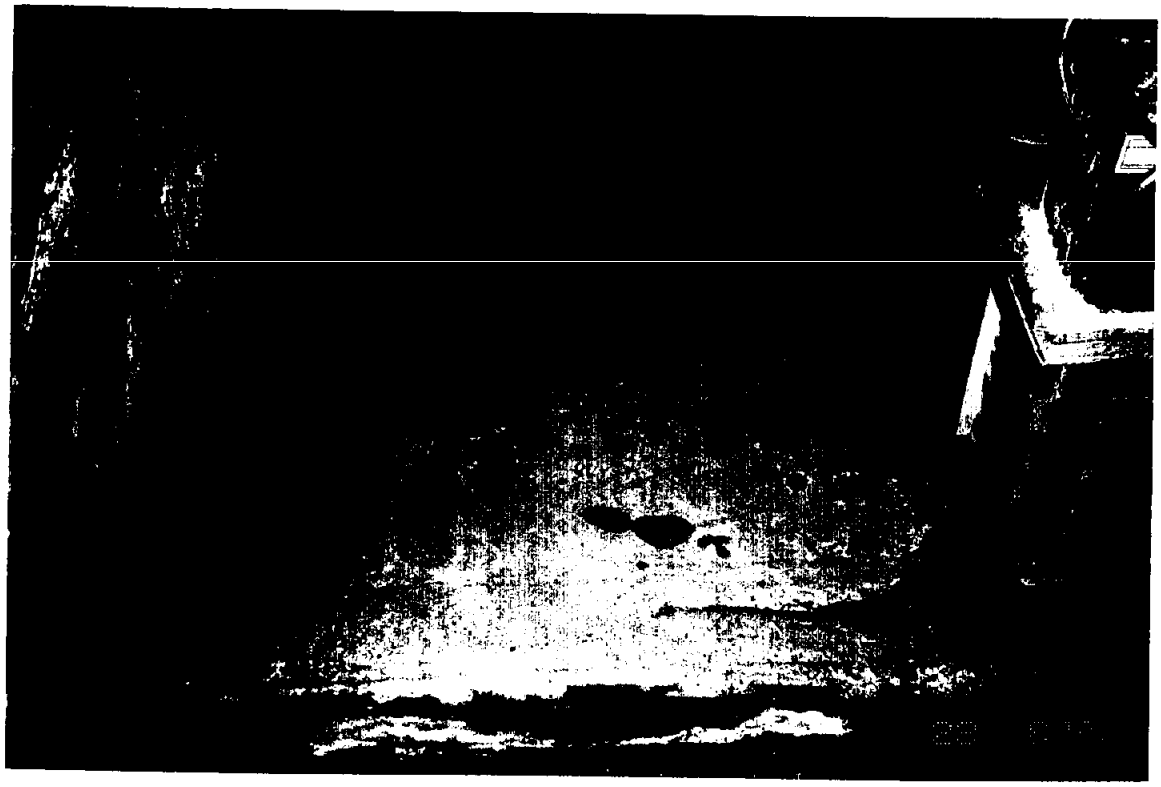


Photo 16. Transformer Vault, west room, showing heavy staining at sample location #81.

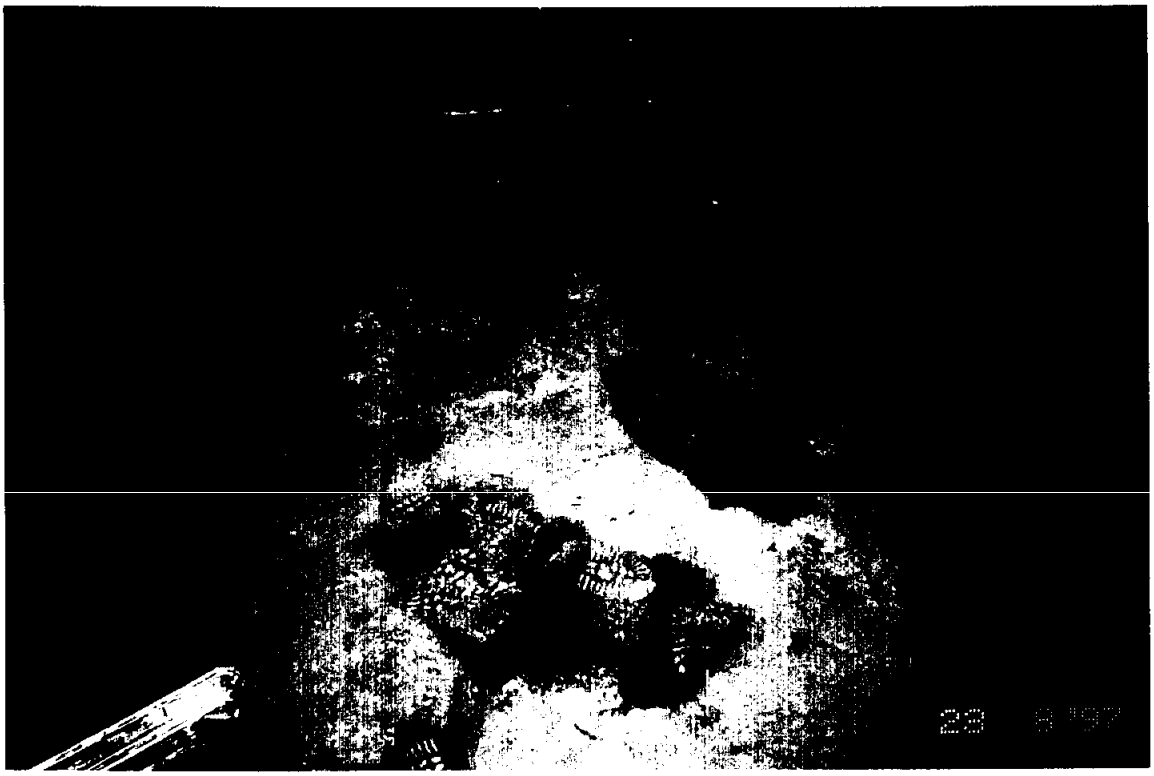


Photo 17. Transformer Vault, west room, showing samples in unstained areas on raised slab.

Photo 18. Boiler Room, looking west, showing boiler ad ACM insulation.

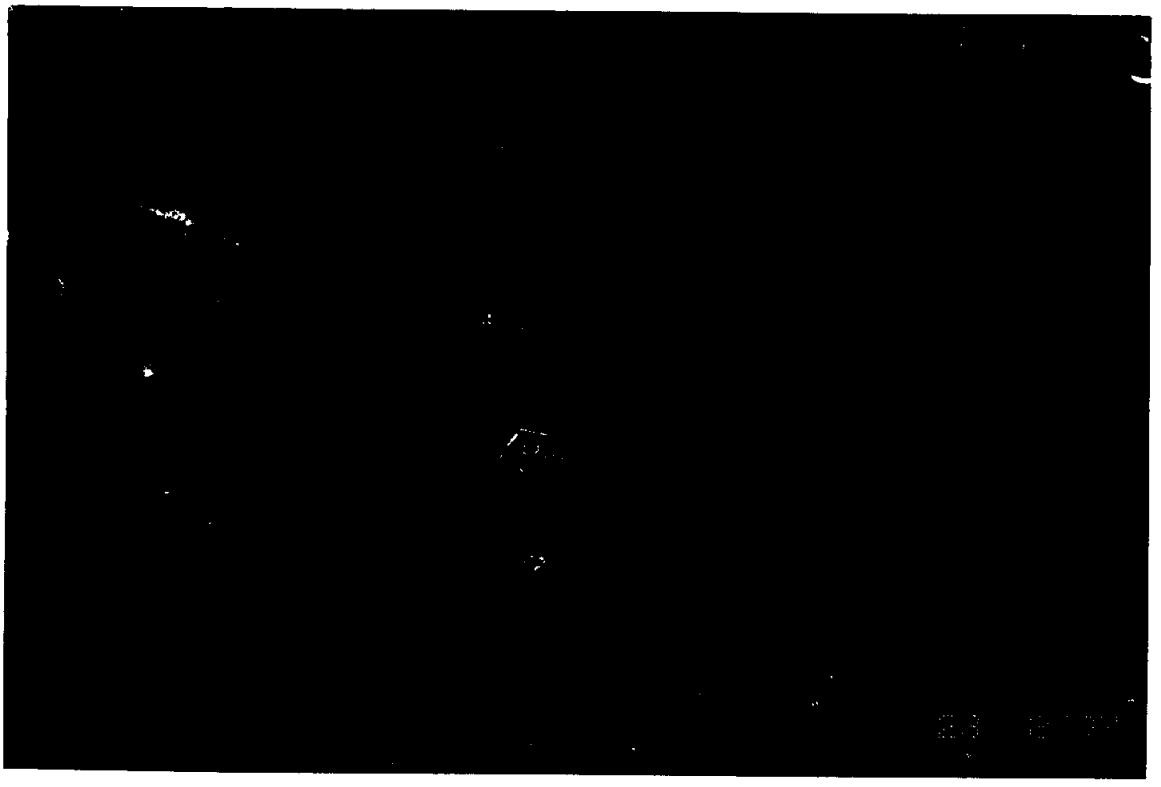


Photo 19. Boiler Room, showing sample location at floor drain near south wall.

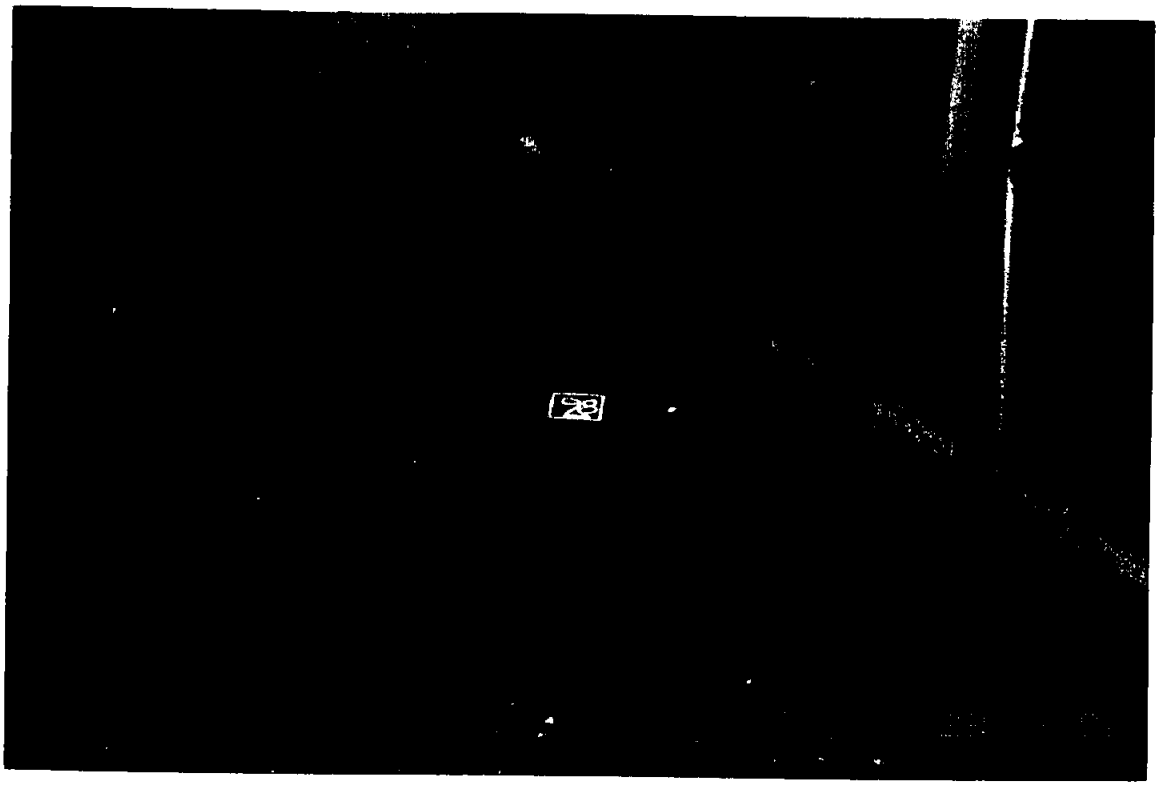


Photo 20. Boiler Room, looking east, showing sample location in center of floor.

Photo 21. Boiler Room, sump on east side at base of stairs.

Photo 22. Office, showing sample locations #91 (foreground) and #92 (center).

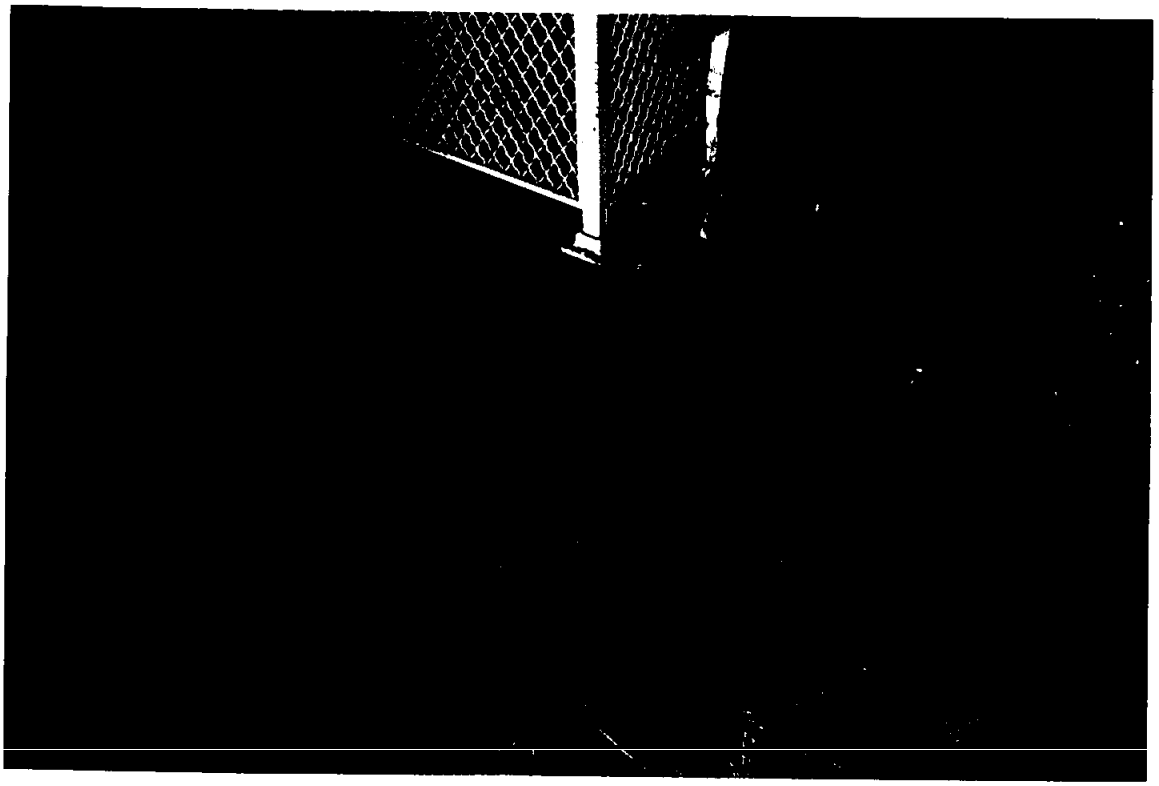


Photo 23. Shop, showing sample location on clean floor (#88).

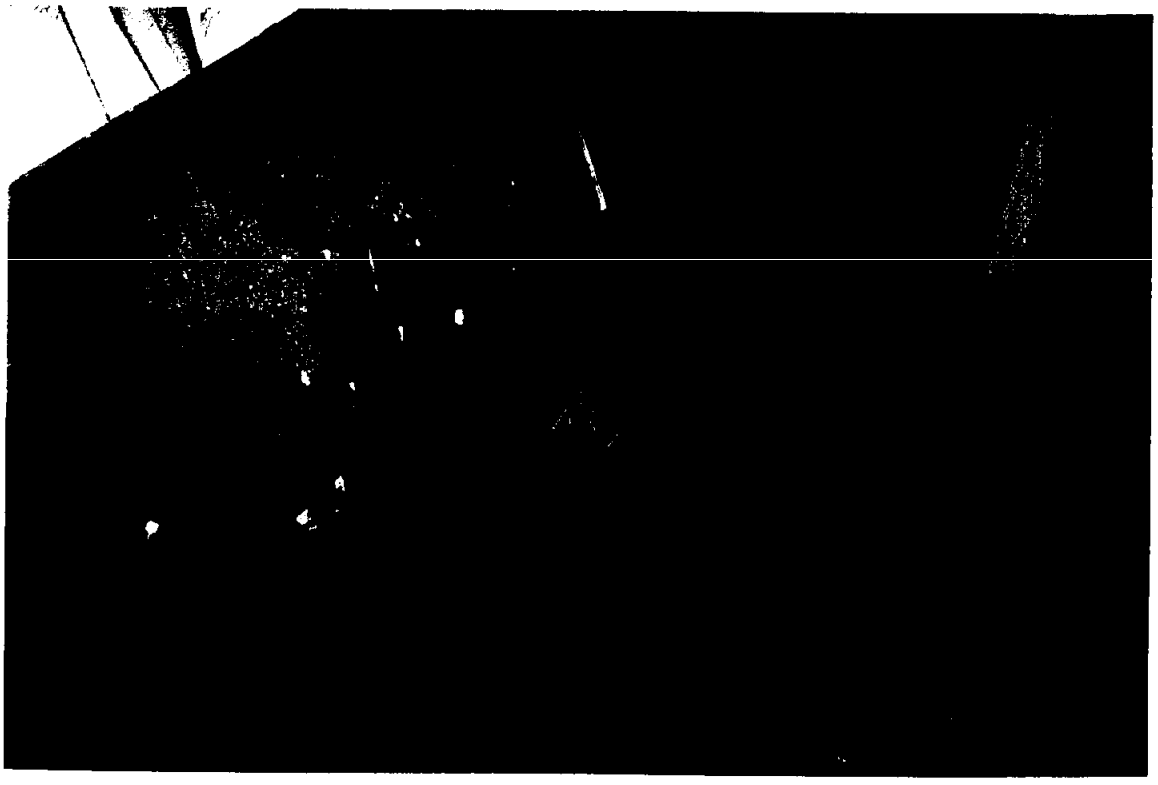


Photo 24. Shop, showing sample location with peeled paint (#94).

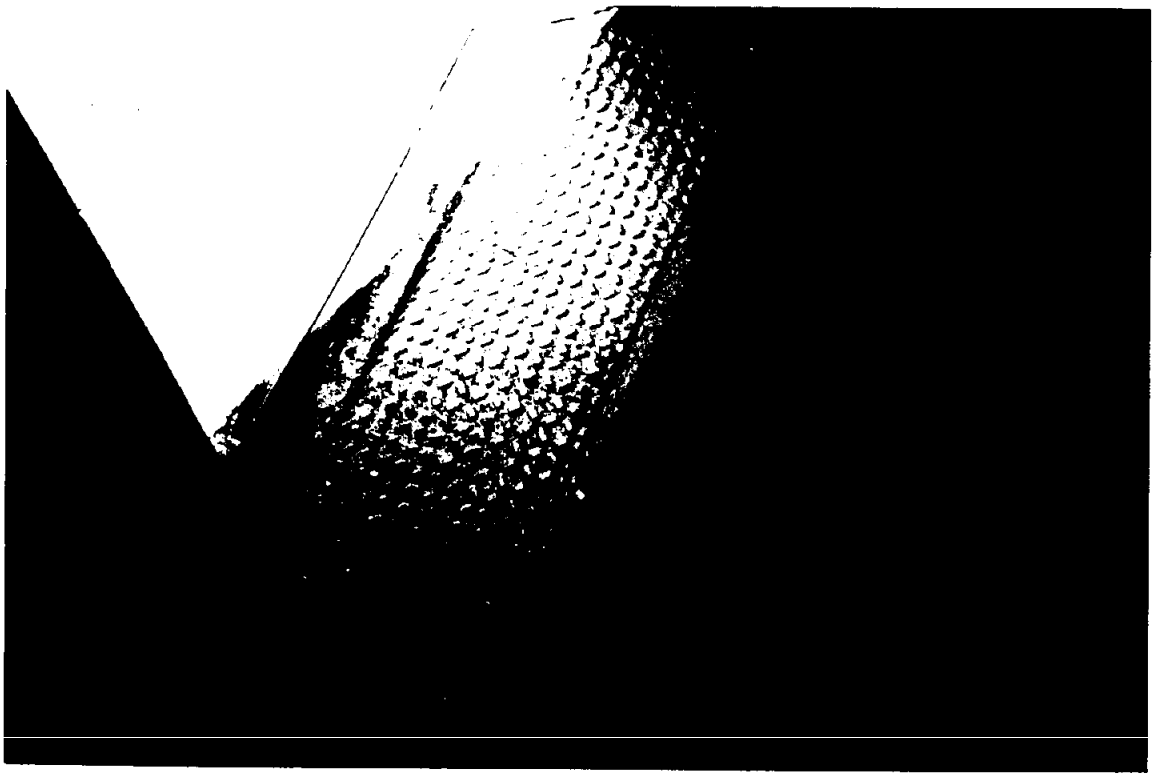


Photo 25. Shop, showing utility trench on south wall and sample location #93.

Photo 26. Tool Cage, showing sample location (center) with peeling paint (#90).

Photo 27. Locomotive Shop, concrete chip sample location (center) in south service trench (location #19).

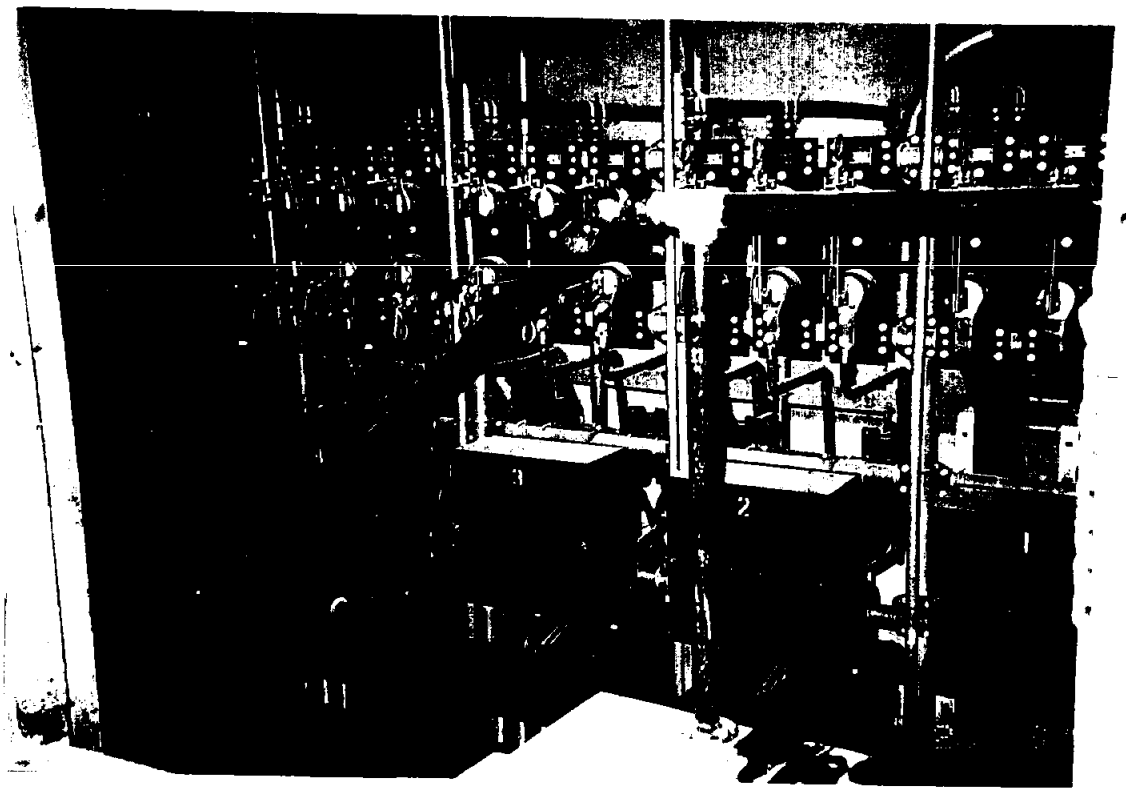


Photo 28. Transformer Vault, east room, oil circuit breakers #1 through #6.

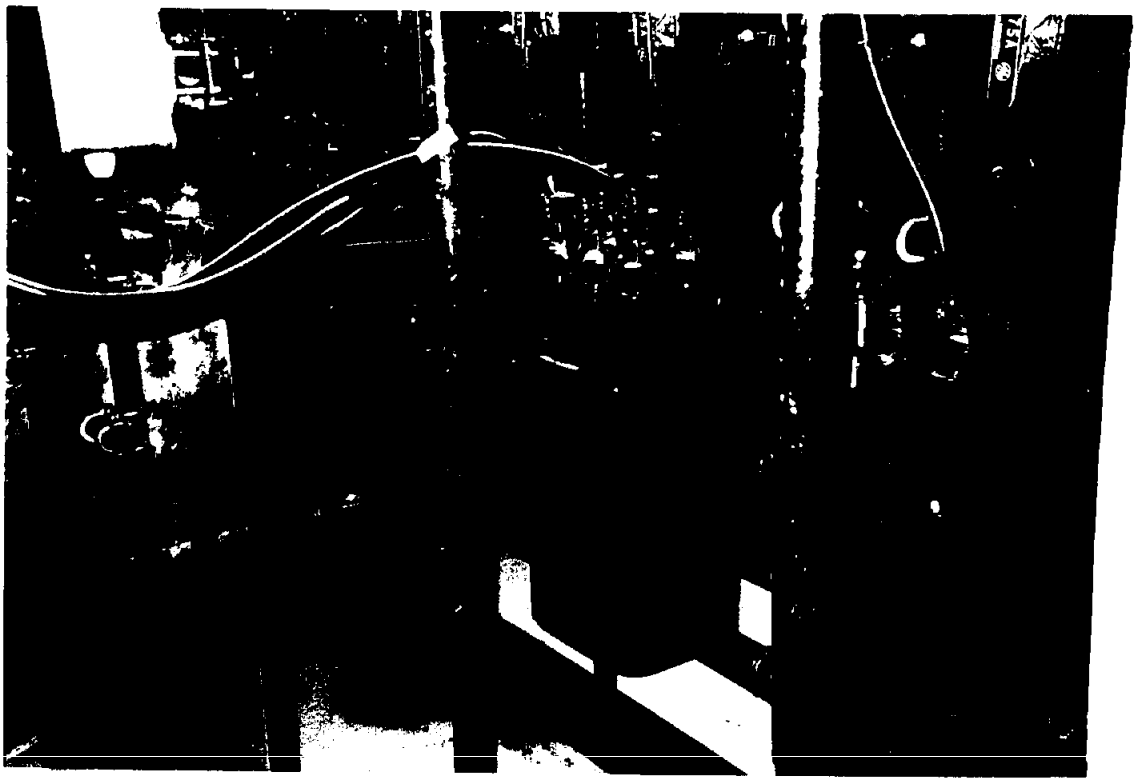


Photo 29. Transformer Vault, west room, reservoirs on oil circuit breakers.

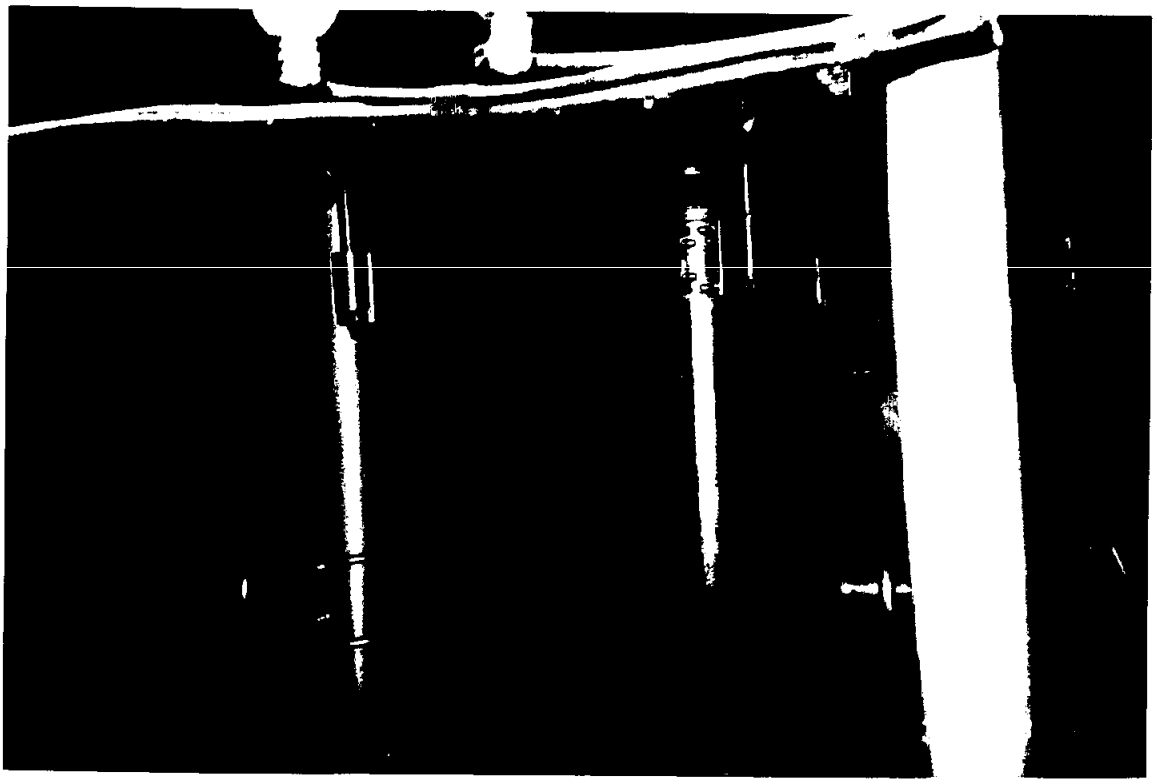


Photo 30. Transformer Vault, close up of oil circuit breaker reservoir.

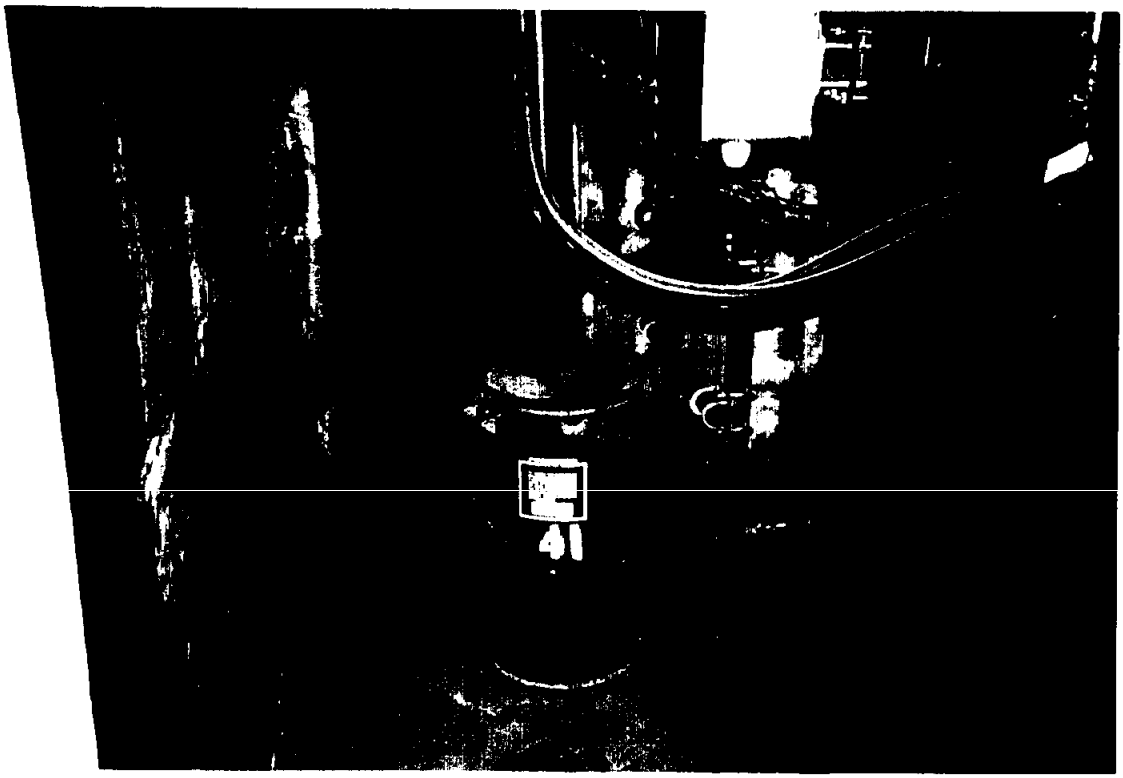


Photo 31. Transformer Vault, transformer on floor.

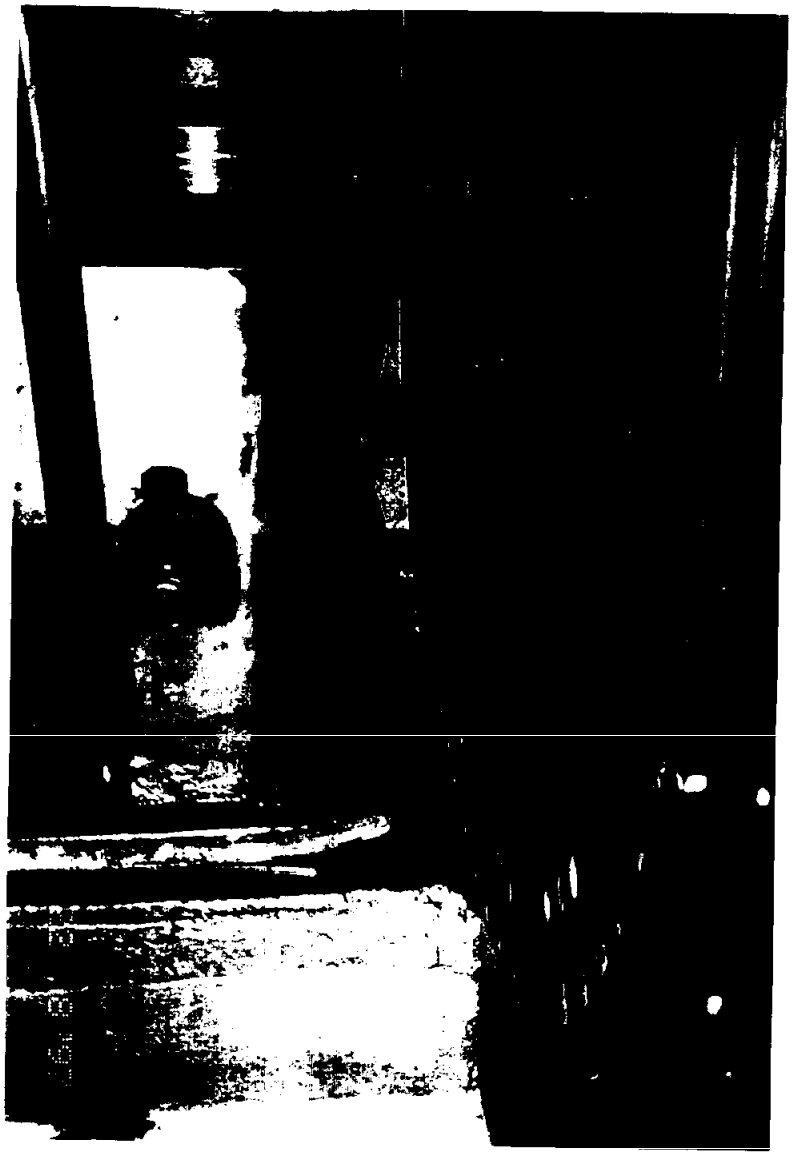


Photo 32. Electrical Room, Fairbanks Morse generator, oil from crankcase.

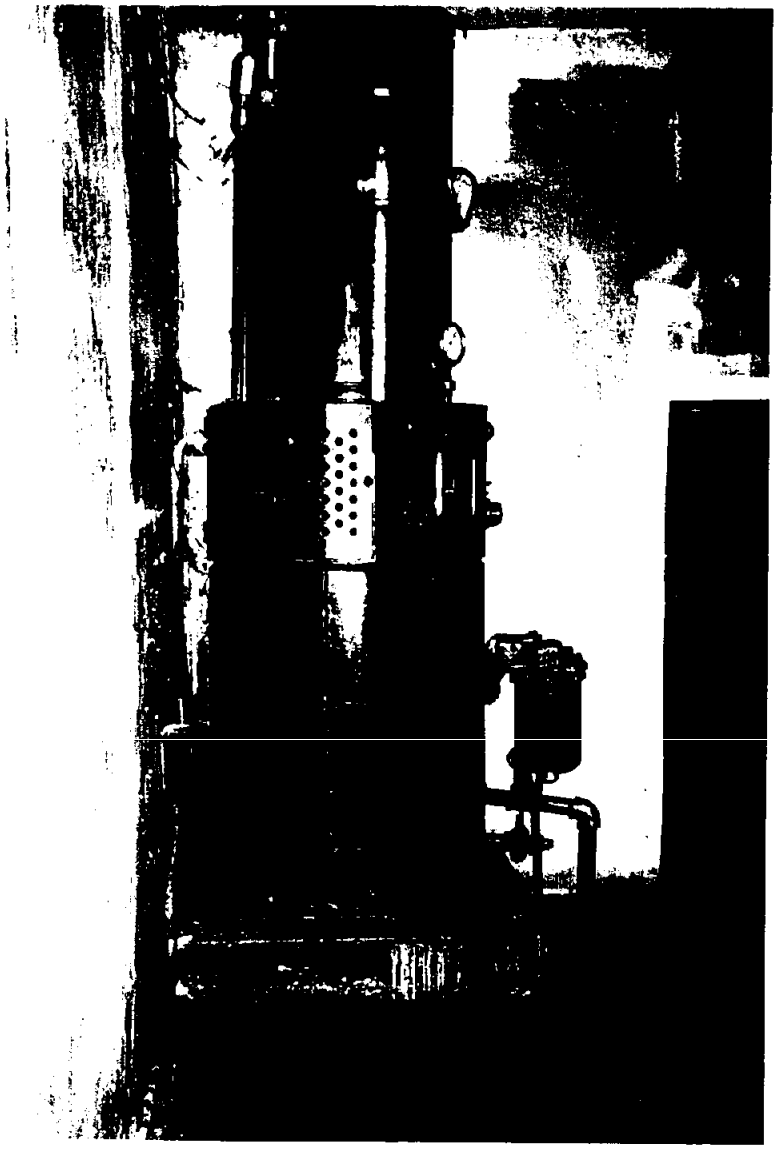


Photo 33. Electrical Room, Engine Pit, oil heater in southwest corner.

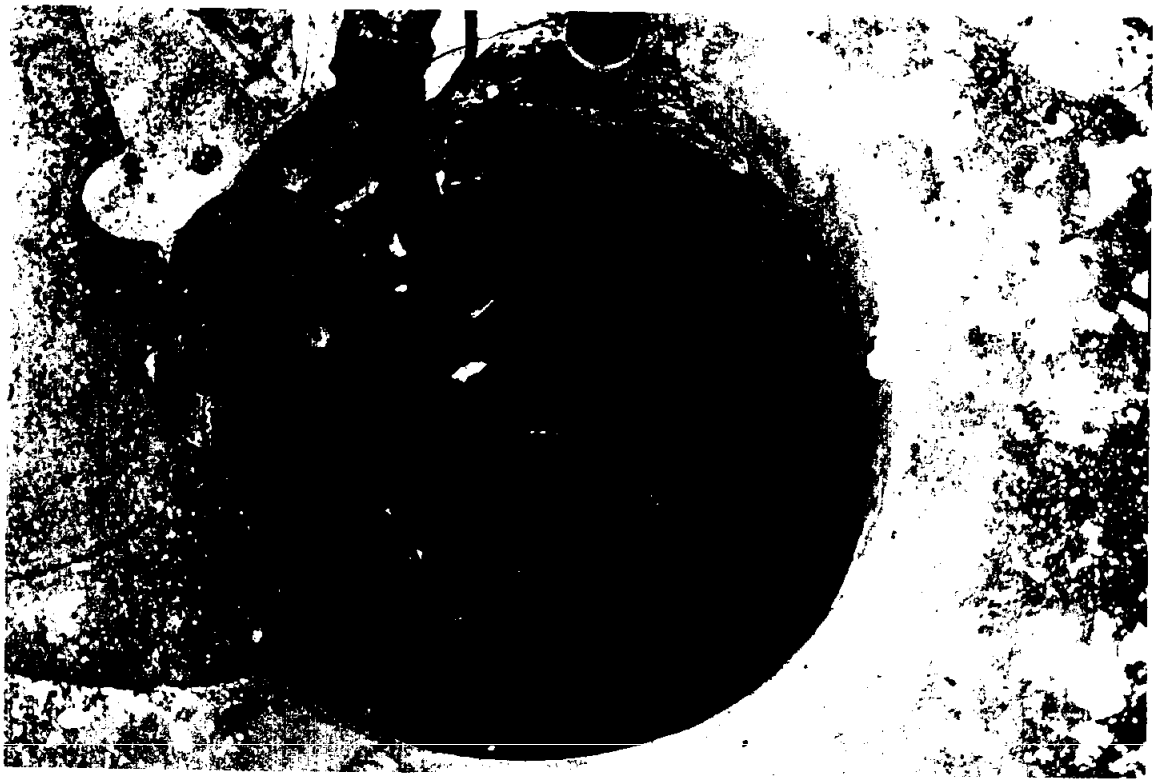


Photo 34. Boiler Room, northwest sump.

Photo 35. Locomotive Shop, south service trench drain.

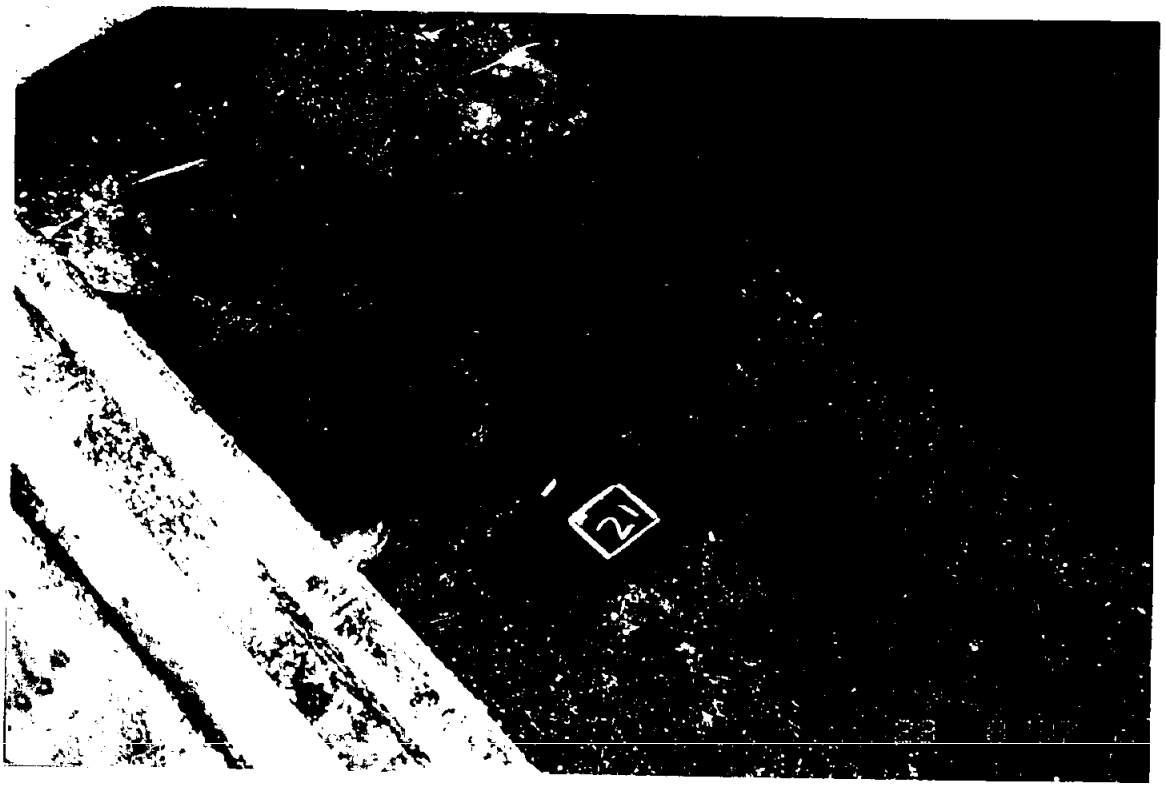


Photo 36. Locomotive Shop, south service trench drain, showing sediment trap.

Photo 37. Electrical Room, Engine Pit, water in trench drain on south end of Fairbanks Morse generator.

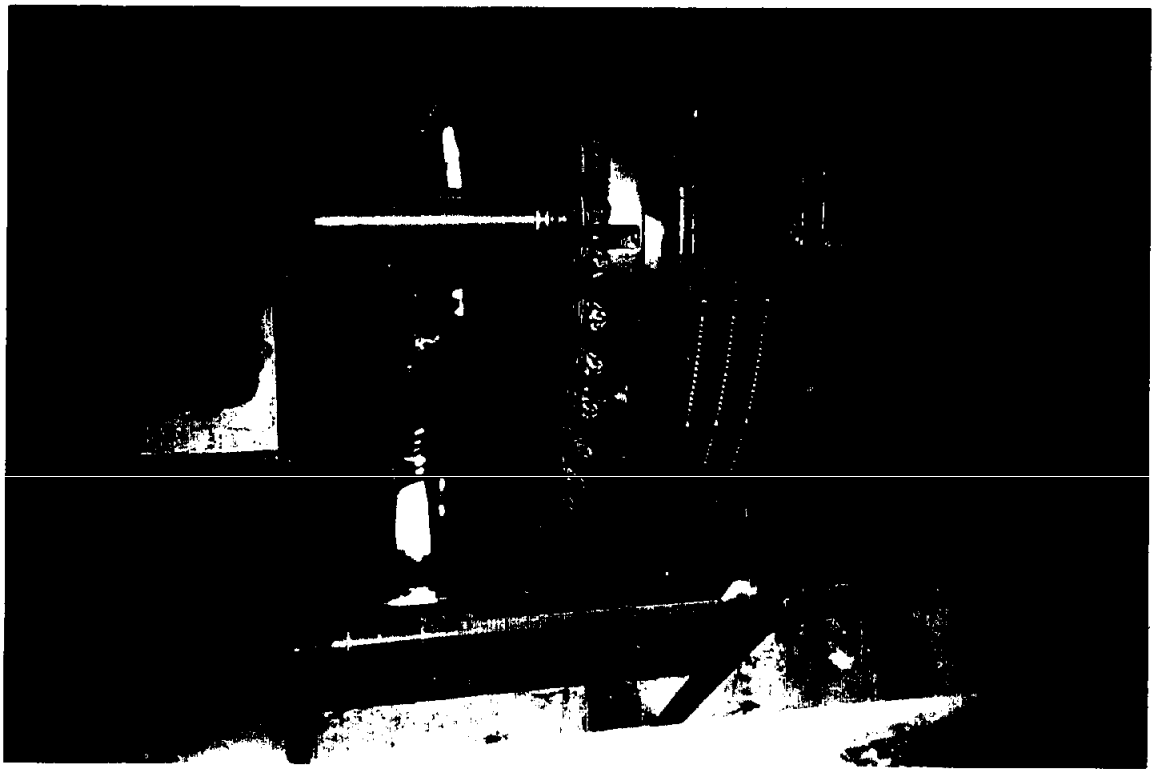


Photo 38. Electrical Room, Engine Pit, water in pit under generator.

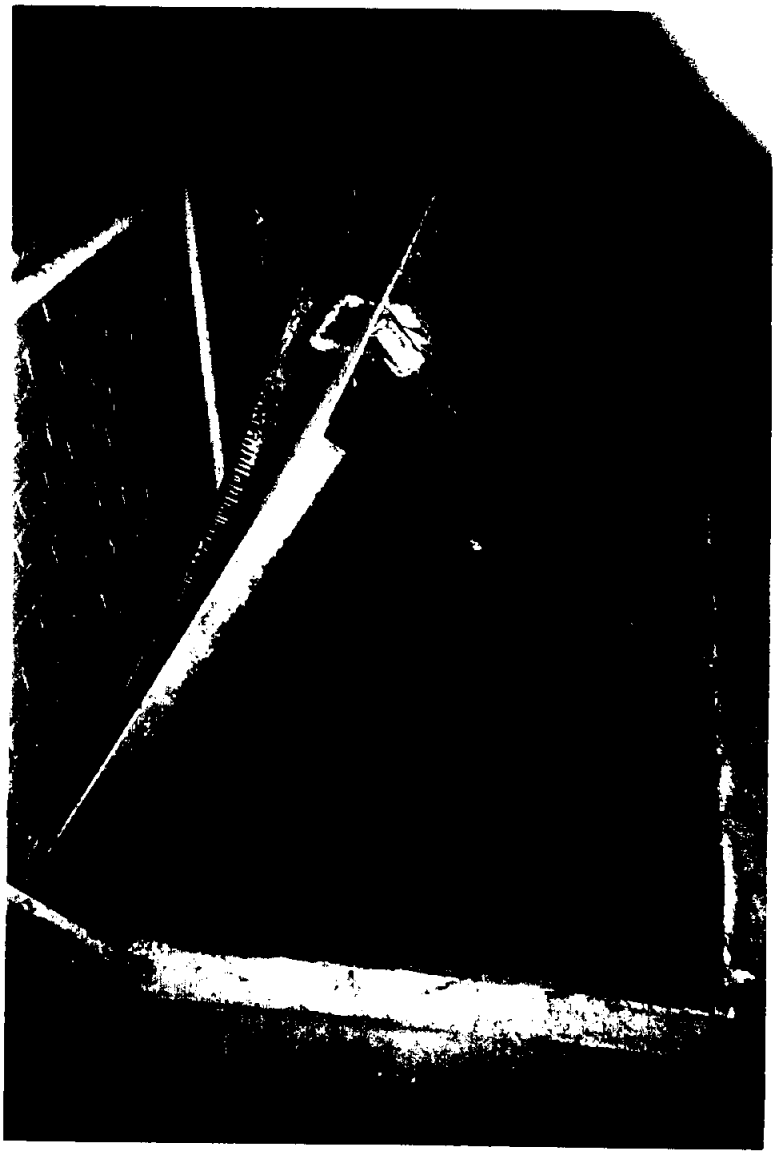


Photo 39. Locomotive Shop, oil drums in sand pit at east end of north rails.

Photo 40. Locomotive Shop, sampling of oil drums.

Appendix E
ACM Survey

Pickering ACM Survey for Building 11

FACILITY: Building #11 - Railroad Engine Shop

SQUARE FEET: 6,350

FINDINGS:

Building #11 is a one-story masonry structure with a partial basement with brick veneer exterior and built up roof.

THERMAL INSULATION: There is approximately 245 linear feet of insulated pipe with 50 insulated fittings. The insulated pipe runs from the furnace room in the partial basement up to the office areas and through the shop area. It is a friable material in fair condition with high physical damage, water damage, and deterioration. It is a confirmed asbestos containing material of 15-55% chrysotile, 5-35% amosite, and 0-5% crocidolite.

RECOMMENDATIONS:

The pipe insulation and pipe fitting insulation in Building #11 is in fair condition. This material should have the damaged areas repaired by proper covering, encapsulation or replacement and should then be placed under the management plan to keep maintenance and management personnel advised of any changes that may increase the area hazard potential. If any renovation or building demolition should include this material, an abatement program should be implemented.

ABATEMENT OPERATIONAL PLAN:

Friable Abatement: The friable material in Building #11 can be removed utilizing the glovebag method. The normal operations of the building would be impacted slightly since the immediate area surrounding the piping would have to be vacated during the five (5) day removal process.

R

UNIT COST ESTIMATE DATE: OCT. 15, 1990 SHEET 1 of 1

PROJECT: FORT WINGATE D.A.
LOCATION: BUILDING 11
A/E: PICKERING ENVIRONMENTAL

BASIS FOR ESTIMATE
X CODE A (NO DESIGN COMPLETED)
_ CODE B (PRELIMINARY DESIGN)
_ CODE C (FINAL DESIGN)
_ OTHER (SPECIFY)_____

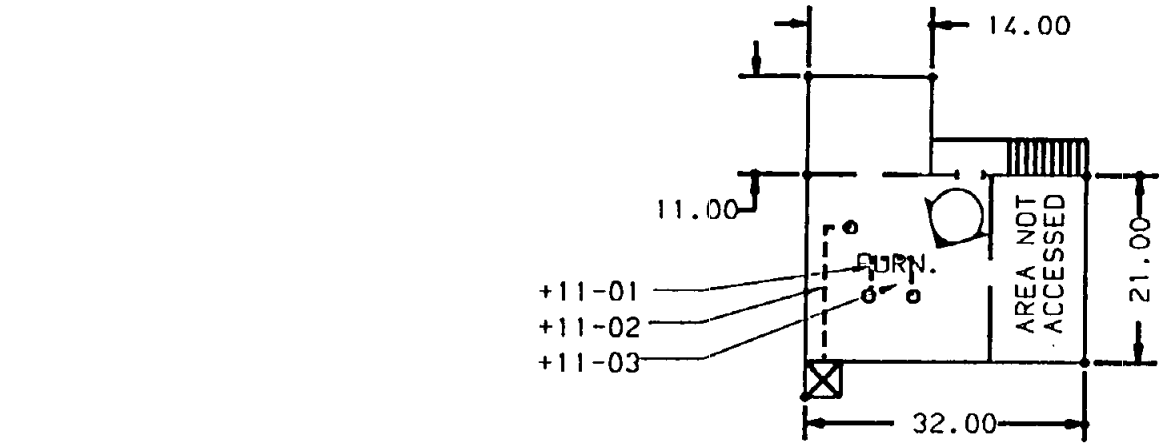
SPEC No. ESTIMATOR: R.F. CHECKED BY: K.V.

ITEM No.	DESCRIPTION	ESTIM. QUANITY	UNITS	UNIT COST	TOTAL COST
	** FRIABLE MATERIAL **				
1	PIPE INSULATION	245	LIN.FT.	$23.00	$5,640
2	PIPE FITTING INSULATION	50	EA	$25.00	$1,250
3					$0
4					$0
5					$0
6					$0
7					$0
8	AIR MONITORING	5	DAY	$425.00	$2,130
9	CONTINGENCY			10%	$300
10	SUPERVISION AND ADMINISTRATION			8%	$720
			FRIABLE TOTAL		$10,600
	** NON-FRIABLE MATERIAL **				
1					$0
2					$0
3					$0
4					$0
5					$0
6					$0
7					$0
8	AIR MONITORING	0	DAY	$425.00	$0
9	CONTINGENCY			10%	$0
10	SUPERVISION AND ADMINISTRATION			8%	$0
			NON-FRIABLE TOTAL		$0
			GRAND TOTAL		$10,600

ALL UNIT COSTS INCLUDE ABATEMENT AND REPLACEMENT COSTS

SPK FORM 56 (TEST)
1 DEC 84

AREAS 01-03 PIPE & PIPE JOINT INSULATION

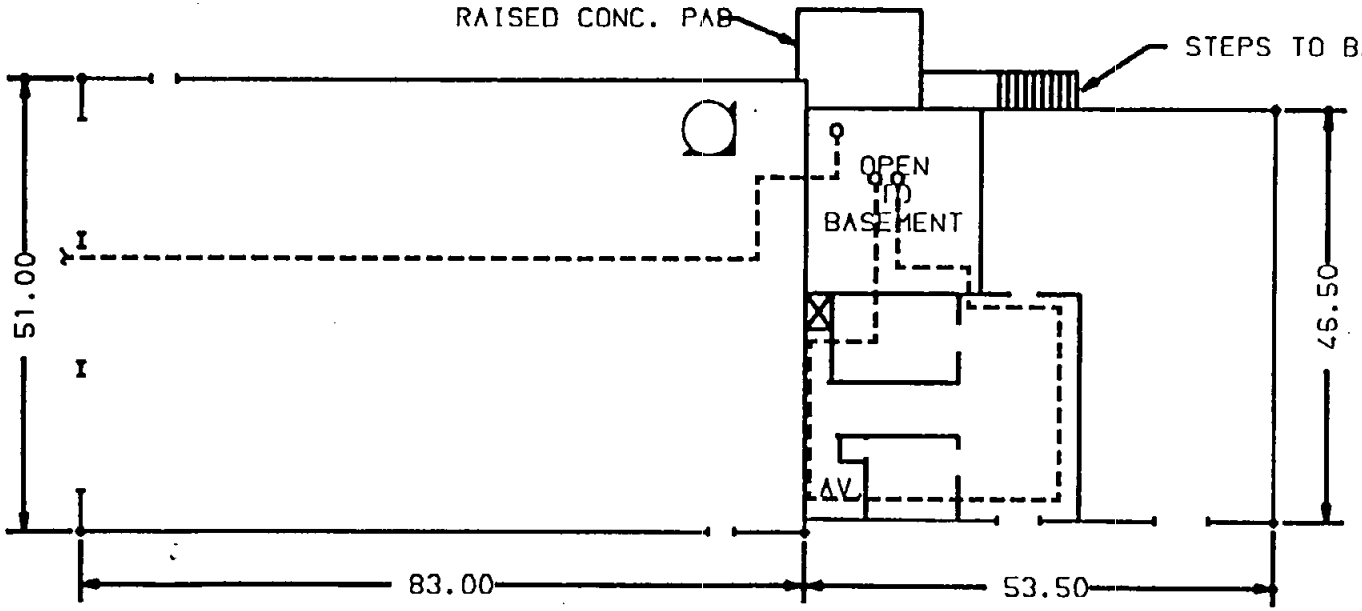


LEGEND

PIPE INSULATION

PHOTOGRAPH MARK

BASEMENT



FIRST FLOOR

10 5 0 10 20
SCALE IN FEET

FT. WINGATE D.A.

PICKERING ENVIRONMENTAL ASBESTOS SURVEY

FACILITY ENGINEER TOOELE ARMY DEPOT TOOELE, UTAH

BLDG 11

DATE: OCTOBER 1990

0161

ASBESTOS DATABASE FIELD DATA

FORT WINGATE PROJECT NO: 10318 SACRAMENTO COE

REPORT DATE: 01/08/91

ROW NO.	JOB NUMBER	BLDG. NUMBER	BLDG. NAME	SAMPLE NUMBER	SAMPLE DATE	LOCATION	ASB. CONTENT	FRIABLE	QUANTITY	ACM USE / COMMENTS	ABATEMENT RECOMENDATION
97	10318	00011	RR ENGINE SHOP	0011-01	8-6-90	BSMT BOILER ROOM	15%CHRY,35%AMOS,5%CR	Y	245LNFT 50FTGS	PIPE JOINT	REPAIR-O&M
98	10318	00011	RR ENGINE SHOP	0011-02	8-6-90	BSMT BOILER ROOM	15%CHRY,35%AMOS,5%CR	Y	245LNFT 50FTGS	PIPE RUNS	REPAIR-O&M
99	10318	00011	RR ENGINE SHOP	0011-03	8-6-90	BSMT BOILER ROOM	55%CHRY,5%AMOS	Y	245LNFT 50FTGS	PIPE RUNS	REPAIR-O&M

HOMOGENEOUS AREA DATA

HOMOGENEOUS AREA # _____

PROJECT NAME Wyatt

BUILDING NAME 0011

FLOOR NO. 1st

ROOM NO. Boiler + work house

DAY/DATE 8/6/90

ACCREDITATION #/STATE _____

INSP. NAME GS

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing _ Thermal X Misc. _		Key PM Comments: TSI 4in	Sq.Ft. _____ Number Lin.Ft. ~~6024~~ Number _____ (Fittings) 50 (Salients Only)	Excellent ___ Very Good ___ Good ___ Fair X Poor ___

Area Entrance Orientation: (N) S E W

N / W E / S

Building Entrance Orientation: N (S) E W

Sample Numbers	Results
01-JT	15% CH / 35% AM / 5% CRO
02-Run	( ) ( ) ( )
03-Run	55% CH / 5% AM

THE Pickering FIRM INC.

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
(Yes) No	>10% 4% 3% 2% 1% None	>10% 4% 3% 3% 1% None	>10% 4% 3% 2% 1% None	Severe Heavy (Mod) Light None	High Plenum Mod Duct (Low) Vert. Shaft

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial Activity	Barriers	Damage Potential
Rough (Med) Smooth	High (Mod) Low	(High) Mod Low None	High Mod (Low) None	Yes (No) Perm Temp	High (Mod) Low

Average Daily Occupancy	Duration of Use	%Functional Space
1	Hr/Day 4 Days/Yr: 12	5

HVAC Systems Type: Radiant

Assessment:
1) Damaged or significantly damaged thermal system insulation ACM X 2) Damaged friable surfacing ACM __ 3) Significantly damaged friable surfacing ACM __ 4) Damaged or significantly damaged friable miscellaneous ACM __ 5) ACBM with potential for damage __ 6) ACBM with potential for significant damage ___ 7) Any remaining friable ACM or friable suspected ACM ___

cavin analytical consultants, inc.

2185 WEST PARK COURT • SUITE K • STONE MOUNTAIN, GEORGIA 30087
404-498-8285 • 800-533-1224 • FAX 404-879-8060

CLIENT: The Pickering Firm, Inc.
400 Oyster Point Blvd.
South San Francisco CA 94080-1904

LOCATION: FT. WINGATE PROJECT # 10318

714-757-0500

DATE RECEIVED: August 8, 1990 DATE ANALYZED: August 22, 1990 ANALYST: Daniel R Askren

Laboratory I.D. Number	Location and Gross Visual Description	% Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	% Fiber: Glass Fiber	Cellulose	Synthetic Fiber	% Particulates: Binders	Opaques	Quartz	Mica	Perlite	Gypsum	Tar	Other*	
90080253	W/011-01 BLDG 11		15	35	5					5		40							=
	Gray, unconsolidated, fibrous material.																		\ MPRBAE DRA
90080254	W/011-02 BLDG 11		15	35	5					5		40							=
	Gray, unconsolidated, fibrous material.																		\ MPRBAE DRA
90080255	W/011-03 BLDG 11		55	5						5		35							=
	White, unconsolidated, fibrous material.																		\ MPRBAE DRA

016

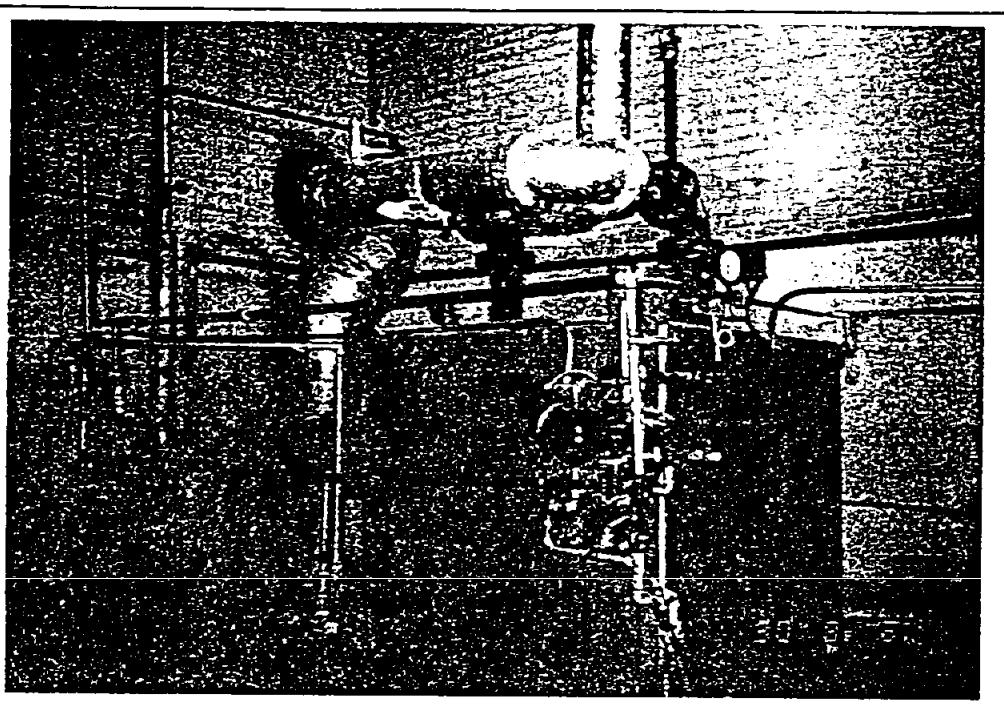
NOTE: Analysis performed in accordance with the procedures set forth in the EPA Regulation (40 CFR 763), as amended. All percentages estimated. National Institute of Standards & Technology NVLAP Code 1401.

Analyst _____ Director _____

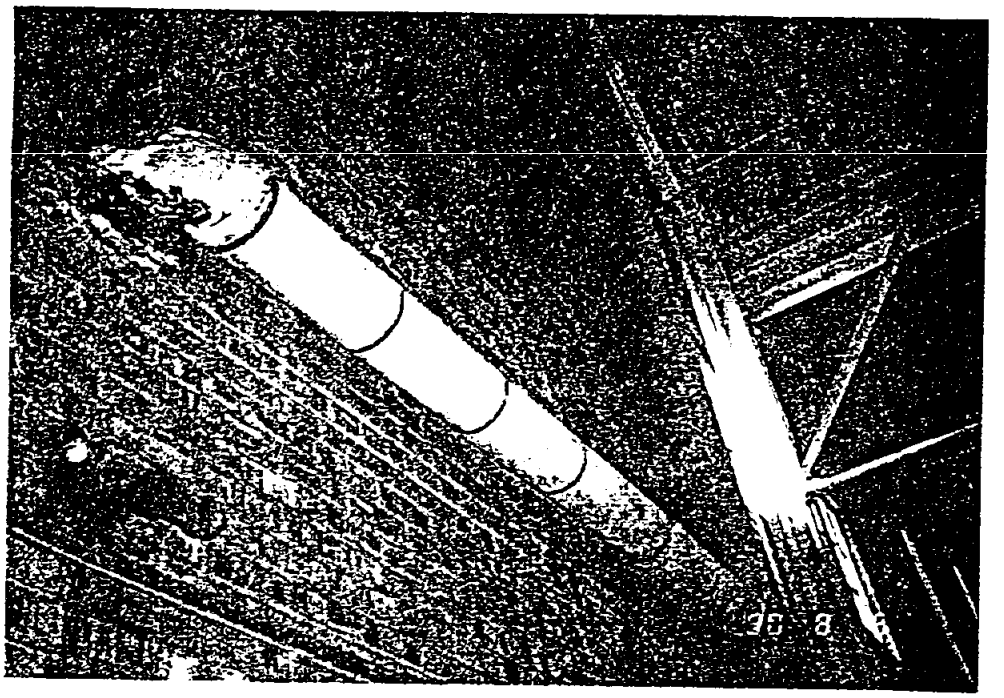
FORT WINGATE DEPOT ACTIVITY

PHOTOGRAPH SHEET

BUILDING # 11



BOILER ROOM



SHOP AREA

Current ACM Survey

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

October 17, 1997

Mr. Eric D. Kammerer
Project Engineer
ERM Program Management Company
855 Springdale Drive
Exton, PA 19341

Project No. 97072-01

RE: Asbestos Survey Building 11, Locomotive Maintenance Facility, Fort Wingate Depot Activity, Gallup, New Mexico

Dear Mr. Kammerer

Envirotech Inc. was retained to inspect and sample Suspected Asbestos Containing Building Material at Building 11, Locomotive Maintenance Facility, Fort Wingate Depot Activity, Gallup, New Mexico.

Inspection and sampling was preformed October 7, 1997 by USEPA Certified Inspector Morris D. Young, Certificate No. 528629179. Inspection of the facility was preformed in the presence of ERM PMC Field Operations Manager, Ms. Kathleen Hoffman. The reported purpose of the inspection was to identify suspected asbestos containing materials that potentially could be disturbed by future PCB abatement activities at the former Locomotive Repair Facility.

Suspected Asbestos Containing Materials identified at the facility included window putty, plaster, sheetrock, drywall, caulking, trowel-on water proofing and thermal duct packing. Thermal pipe and vessel insulation at the facility was previously sampled and identified as asbestos containing in a 1990 survey conducted by Pickering Environmental Consultants. As per ERM PCM's direction roofing materials and the referenced thermal insulation were excluded from this survey.

Homogeneous Suspected Asbestos Containing Material areas were identified that included the trowel on water proofing in the boiler room area of the basement, plaster ceiling in the shop/electrical substation area, and window putty. Random spot samples were taken for each Homogeneous area. The following table lists each sample number, the material matrix sampled, and results as to if asbestos was present. If asbestos was detected, the type and quantity is reported.

Sample No.'s	Material	Location	Results
B11 ACM 001	Water Proofing Cement	Boiler Room	*NAD
B11 ACM 002	Water Proofing Cement	Boiler room	*NAD
B11 ACM 003	Water Proofing Cement	Boiler Room	*NAD
B11 ACM 004	Thermal Packing	Stand-by Generator Exhaust	30-50% Chrysotile
B11 ACM 005	Plaster	Stand-by Generator Room Ceiling	*NAD

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

B11 ACM 006	Plaster	Shop Ceiling	*NAD
B11 ACM 007	Plaster	Tool Cage Ceiling	*NAD
B11 ACM 008	Plaster	West Wall Restroom	*NAD
B11 ACM 009	Plaster	South Wall Restroom	*NAD
B11 ACM 010	Plaster	East Wall Restroom	*NAD
B11 ACM 011	Drywall	Restroom Ceiling	*NAD
B11 ACM 012	Putty	Stand-by Generator Room Window	*NAD
B11 ACM 013	Caulk	Stand-by Generator Room Doorway	1-5% Chrysotile
B11 ACM 014	Putty	Electrical Room Window	*NAD
B11 ACM 015	Putty	Locomotive Shop NE Window	* NAD
B11 ACM 016	Putty	Locomotive Shop N Cntr Window	*NAD
B11 ACM 017	Putty	Locomotive Shop NW Window	*NAD
B11 ACM 018	Putty	Locomotive Shop SW Window	*NAD
B11 ACM 019	Putty	Locomotive Shop S Cntr Window	*NAD
B11 ACM 020	Putty	Locomotive Shop SE Window	*NAD
B11 ACM 021	Putty	Restroom Window	*NAD

*NAD means "NO Asbestos Detected"

Utilizing USEPA Sample Protocol, Chain of Custody Record No.s 5511, 5512 and 5513 were prepared, the suspected ACM samples were sealed, marked and sent UPS to Assaigai Laboratories in Albuquerque, New Mexico for analysis. Assaigai is a National Voluntary Laboratory Accreditation Program Laboratory (NVLAP).

Analysis results were faxes to our office on October 14, 1997. Attached please find a copy of the Laboratory Work Sheets. A copy of the Officially Laboratory Analysis Certificates will be forwarded to your attention upon receipt from Assaigai Laboratories.

The analysis report results are reported in the preceding table. Only sample B11 ACM 004, thermal packing on the standby generator exhaust duct and sample B11 ACM 013 caulk on the Stand-by Generator Room South Door contained any asbestos fibers. The thermal packing is approximately 2 square feet in area and the caulk is a sealing bead approximately 25 feet long.

Enclosed please find the asbestos sampling sheets for, Floor Plan for Building B-11, Chain of Custody Records of the samples and Assaigai Laboratories Worksheet.

We appreciate the opportunity to provide service. If we can provide any additional information or in any other way by helpful, please contact us.

Sincerely

Envirotech Inc.

Morris D. Young

Morris D. Young
Certified Asbestos Inspector No. 528629179

da/mdyfwg

Figure 4-1
Asbestos Sampling Sheet
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Inspector Name: MORRIS D. YOUNG
Inspector Phone: 505-632-0615

Building Number: B 11
Drawing Number:

Sample Number	Location	Suspect ACM Type	Estimated Quantity (Linear Feet)
B11ACM 001	BOILER ROOM NORTH WALL	TROWEL ON WATER PROOFING	(001-003 TOTAL 1000 Sq ft.
B11ACM 002	BOILER ROOM WEST WALL	TROWEL ON WATER PROOFING	"
B11 ACM 003	BOILER ROOM SOUTH WALL	TROWEL ON WATER PROOFING	"
B11 ACM004	EXHAUST PACKING ST. BY GEN	SIGNIFICANT DAMAGE. PACKING AT WALL EXIT	12" X 2'
B11 ACM005	PLASTER CEILING ST. BY GEN	CEILING PLASTER	1000 □'
B11 ACM006	PLASTER CEILING SHOP	CEILING PLASTER	(006 & 007 1000 □' TOTAL
B11 ACM007	PLASTER CEILING TOOL CAGE	CEILING PLASTER	"
B11 ACM008	WEST PLASTER WALL BATHROOM	PLATER	(008, 009 & 0010 300 □' TOTAL
B11 ACM 009	SOUTH PLASTER WALL BATHROOM	PLASTER	"

Figure 4-1
Asbestos Sampling Sheet
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Inspector Name: MORRIS D. YOUNG
Inspector Phone: 505-632-0615

Building Number: B11
Drawing Number:

Sample Number	Location	Suspect ACM Type	Estimated Quantity (Linear Feet)
B11ACM 010	EAST PLASTER WALL BATHROOM	PLASTER	(008, 009 & 010 300 SF total)
B11ACM011	BATHROOM CEILING	DRY WALL.	70 SF
B11ACM012	EAST WINDOW Putty St. BY GEN.	Putty	150'
B11ACM013	S. Door CAULKING ST. BY GEN	CAULK	25'
B11ACM014	N. WINDOW Putty ST. By GEN	Putty	150'
B11ACM015	N.E. WINDOW Putty Locomotive SHOP	Putty	420'
B11ACM016	Locomotive SHOP CENTER N. WINDOW Putty	Putty	420'
B11ACM017	N.W. WINDOW Putty Loco SHOP	Putty	420'
B11ACM018	SW WINDOW Putty Loco SHOP	Putty	420'

Figure 4-1
Asbestos Sampling Sheet
Building 11 PCB Investigation
Fort Wingate Depot Activity
Gallup, New Mexico

Inspector Name: MORRIS D. YOUNG
Inspector Phone: 505-632-0615

Building Number: B-11
Drawing Number:

Sample Number	Location	Suspect ACM Type	Estimated Quantity (Linear Feet)
B11ACM019	S. CENTER WINDOW Locomotive SHop	Putty	4/20'
B11 Acm 020	S.E. WINDOW Locomotive SHop	Putty	4/20'
B11 ACM 021	BATHROOM WINDOW	Putty	45'

ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 3332 Wedgewood, Suite E-5 • so, Texas 79925

To: Envirotech, Inc.
Attn: Dennis Ajeman
5796 U.S. Highway 64-3014
Farmington, NM 87401

Date: 14 October 1997
Work Order No. BB16007
Bulk Asbestos Analysis
No. of Analyses: 28
No. of Samples: 21

Methods: EPA Interim Method of the Determination of Asbestos in Bulk Insulation Samples (EPA-600/M4-82-020) and as cited in 40 CFR Part 763, Subp. F, Appendix A, Section 1, comparing the quantity of non-asbestos material to asbestos fibers. The EPA Preferred Method is the Determination of Asbestos in Bulk Building Materials (EPA-600/R-93/116 July 1993). Detection Limit: 1% of the portion of the sample examined.

Sampling Site: **ERM Program Management - Building B11 - Ft. Wingate**

SAMPLE ID.	*DESCRIPTION*	*ASBESTOS TYPE*	*% ASBESTOS*	*OTHER FIBERS*	*% CONTENT*	*MATRIX*
B11ACM-001	*Green Paint*	*NAD*	-----	*None*	-----	*Clay, Opaques*
	Gray Plaster	*NAD*	-----	*None*	-----	*Sand, Cement, Clay*
B11ACM-002	*Green Paint*	*NAD **	-----	*None*	-----	*Clay, Opaques*
	Gray Plaster	*NAD **	-----	*None*	-----	*Sand, Cement, Clay*
B11ACM-003	*Green Paint*	*NAD*	-----	*None*	-----	*Clay, Opaques*
B11ACM-004	*Tan Insulation*	*Chrysotile*	*30 - 50*	*Glass*	*30 - 50*	*Clay*
B11ACM-005	*White Paint/Tan Plaster*	*NAD*	-----	*None*	-----	*Sand, Gypsum Clay, Opaques*
B11ACM-006	*White Paint/Tan Plaster*	*NAD*	-----	*None*	-----	*Sand, Gypsum Clay, Opaques*
B11ACM-007	*Gray Plaster*	*NAD*	-----	*None*	-----	*Sand, Cement, Clay*
	Tan Plaster	*NAD*	-----	*Plant*	*1 - 5*	*Sand, Gypsum Clay*
	Black Mastic	*NAD*	-----	*Plant*	*10 - 30*	*Clay, Tar*
B11ACM-008	*Green Paint/White Drywall Mud*	*NAD*	-----	*None*	-----	*Gypsum Clay, Opaques*
	Brown Plaster	*NAD*	-----	*None*	-----	*Sand, Gypsum Clay*
B11ACM-009	*Green Paint/White Drywall Mud*	*NAD*	-----	*None*	-----	*Gypsum Clay, Opaques*

Envirotech, Inc.
Date: 14 October 1997
Work Order Number: BB16007

SAMPLE ID.	DESCRIPTION	ASBESTOS TYPE	% ASBESTOS	OTHER FIBERS	% CONTENT	MATRIX
B11ACM-010	White Drywall Mud	NAD	-----	None	-----	Gypsum Clay
	Tan Plaster	NAD	-----	None	-----	Sand, Gypsum Clay
B11ACM-011	White Paint/White Drywall Mud	NAD	-----	None	-----	Gypsum Clay, Opaques
	Tan Plaster	NAD	-----	None	-----	Sand, Gypsum Clay
B11ACM-012	Gray Glazing	NAD	-----	None	-----	Calcite Clay
B11ACM-013	Gray Caulk	Chrysotile	1 - 5	None	-----	Clay, Adhesive
B11ACM-014	Gray Glazing	NAD	-----	None	-----	Calcite Clay
B11ACM-015	Gray Glazing	NAD	-----	None	-----	Calcite Clay
B11ACM-016	Gray Glazing	NAD	-----	None	-----	Calcite Clay
B11ACM-017	Gray Glazing	NAD	-----	None	-----	Calcite Clay
B11ACM-018	Gray Glazing	NAD	-----	None	-----	Calcite Clay
B11ACM-019	Gray Glazing	NAD	-----	None	-----	Calcite Clay
B11ACM-020	Gray Glazing	NAD	-----	None	-----	Calcite Clay

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Envirotech, Inc.
Date: 14 October 1997
Work Order Number: BB16007

SAMPLE ID.	DESCRIPTION	ASBESTOS TYPE	% ASBESTOS	OTHER FIBERS	% CONTENT	MATRIX
B11ACM-021	Gray Glazing	NAD	-----	None	-----	Calcite Clay

NAD = NO ASBESTOS DETECTED

* Sample # B11ACM-002 had Chrysotile asbestos fibers from possible contamination from other material..

Analyst - David A. Martinez

Pursuant to the Asbestos NESHAP Clarification Regarding Analysis of Multi-layered Systems (Federal Register/Vol. 59, No. 3, Wednesday, January 5, 1994), each layer, in a sample containing one or more distinct layers, has been individually analyzed and reported. These results relate only to the above samples as submitted unless otherwise noted.

We appreciate the opportunity to perform analytical work for you. If you have any questions, please call.

Respectfully submitted,

Jeffrey M. Mlekush
Asbestos Laboratory Manager

Appendix F
Oil Drum Disposal Manifest

STATE OF ARKANSAS
Department of Pollution Control and Ecology
P.O. Box 8913 Little Rock, Arkansas 72219-8913
Telephone 501-682-0744

1

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

Form Approved. OMB No. 2050-0039. EXPIRES 9-30-99

AR-11-96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NM6213820974 — Manifest Document No. 882863

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Fort Wingate - Army Depot
U.S. Highway 66 - Bldg J-16 Attn: Eric Kammerer
Gallup, NM 87301
4. Generator's Phone (610) 524-3664

A. State Manifest Document Number: AR- 882863
B. State Generator's ID: 99935

5. Transporter 1 Company Name: Safeway Chemical Transport. — 6. US EPA ID Number: DER000080773
C. State Transporter's ID — PC ---- H ---
D. Transporter's Phone: (800)225-0147

7. Transporter 2 Company Name — 8. US EPA ID Number
E. State Transporter's ID — PC ---- H ---
F. Transporter's Phone

9. Designated Facility Name and Site Address
ENSCO INC
309 AMERICAN CIRCLE
EL DORADO, AR 71730
10. US EPA ID Number: ARD069748192
G. State Facility's ID: Z0005
H. Facility's Phone: (501)863-7173

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Polychlorinated biphenyls (pf#684568) (oil contaminated with PCBs), 9, UN2315, PGII Out of Service date 11-17-97 (EB)	005	DM	Est 04950	Kg	PCB
b. Polychlorinated biphenyls (pf#717316) (oil, tar contam'd with PCB's), 9, UN2315, PGII Out of Service date 11-17-97 (EB)	001	DM	Est 00440	Kg	PCB
c.					
d.					

J. Additional Description for Materials Listed Above
11a) 5x85gal overpacks with 55gal drums inside
11b) 55gal steel drum labpack
Out Of Service date on attached profile sheet
If no alternate TSDF, return to generator 3,086#

K. Emergency Response Information:

15. Special Handling Instructions and Additional Information
24-Hour Emergency Response call 1-800-468-1760. Avoid ingestion, inhalation, skin contact. If undeliverable, return to generator. DOT ERG # 11a) 171 11b) 171

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and Arkansas state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name: DAVID WOODWORTH — Signature: David Woodworth — Month Day Year: 11 20 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Bobbie Kochy — Signature: Bobbie Kochy — Month Day Year: 12 04 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: K Elaine Butler — Signature: K Elaine Butler — Month Day Year: 12 6 97

EPA Form 8700-22 (Rev. 9-88) Previous edition is obsolete.

NOTICE: THE ORIGINAL AND NOT LESS THAN TWO (2) COPIES MUST MOVE WITH THE HAZARDOUS WASTE SHIPMENT. ONCE DELIVERED, THE TREATMENT/STORAGE/DISPOSAL FACILITY MUST RETURN THIS ORIGINAL COPY TO THE GENERATOR.