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**Remedial Design of Interim Remedial Measures
Operable Units 1 and 2
Former Lake Ontario Ordnance Works
Lewiston/Porter, Niagara County, NY**

**Asbestos Survey Report
Somerset Group Property**

Prepared for Roy F. Weston, Inc.

June 1998

P11760.05

ACRES INTERNATIONAL CORPORATION
140 John James Audubon Parkway
Amherst, New York 14228-1180



— Includes 6 pages of maps —
and 7 bks

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1 Introduction

1.1 General Background

Acres International Corporation (Acres) has performed an asbestos survey of the northern portion of former Air Force Plant 68 (AFP-68) located in the Town of Porter, Niagara County, New York (Figure 1-1). The survey was performed by Acres as a subconsultant to Roy F. Weston, Inc. as part of the development of the Remedial Design for Interim Remedial Actions for Operable Units 1 and 2 of the former LOOW. The project is being administered under the Defense Environmental Restoration Program (DERP) by the U.S. Army Corps of Engineers, Baltimore District.

AFP-68 was constructed in the late 1950s in the western portion of the former Lake Ontario Ordnance Works (LOOW) TNT production plant. AFP-68 was designed to produce boron and lithium-based high energy fuels but was decommissioned in 1959 before the plant went into production. The AFP-68 property, originally 100± acres in size, was sold by the General Services Administration in 1966 to the Fort Conti Corporation, a real estate holding company. Fort Conti subsequently sold the property to the Somerset Group in 1969. The Somerset Group sold the southern ±50 acre portion of former AFP-68 to Chem-Trol Pollution Services in 1978. The Somerset Group has maintained ownership of the northern portion of former AFP-68 since 1969. This northern portion of former AFP-68 is the subject of this investigation.

1.2 Purpose of this Investigation

The AFP-68 decommissioning effort involved the removal of all salvageable equipment and piping. Consequently, following the decommissioning, all that remained of the plant were several abandoned buildings and concrete foundations of former process areas, tank farms and overhead pipe support structures. The current property owner has utilized the former laboratory as office space, the maintenance shop as an automobile repair and storage garage, and non-combustibles warehouse for warehouse storage. Apparently, only limited improvements have been made to these areas. The remainder of the site has remained largely undeveloped since the closure of AFP-68 in 1959.

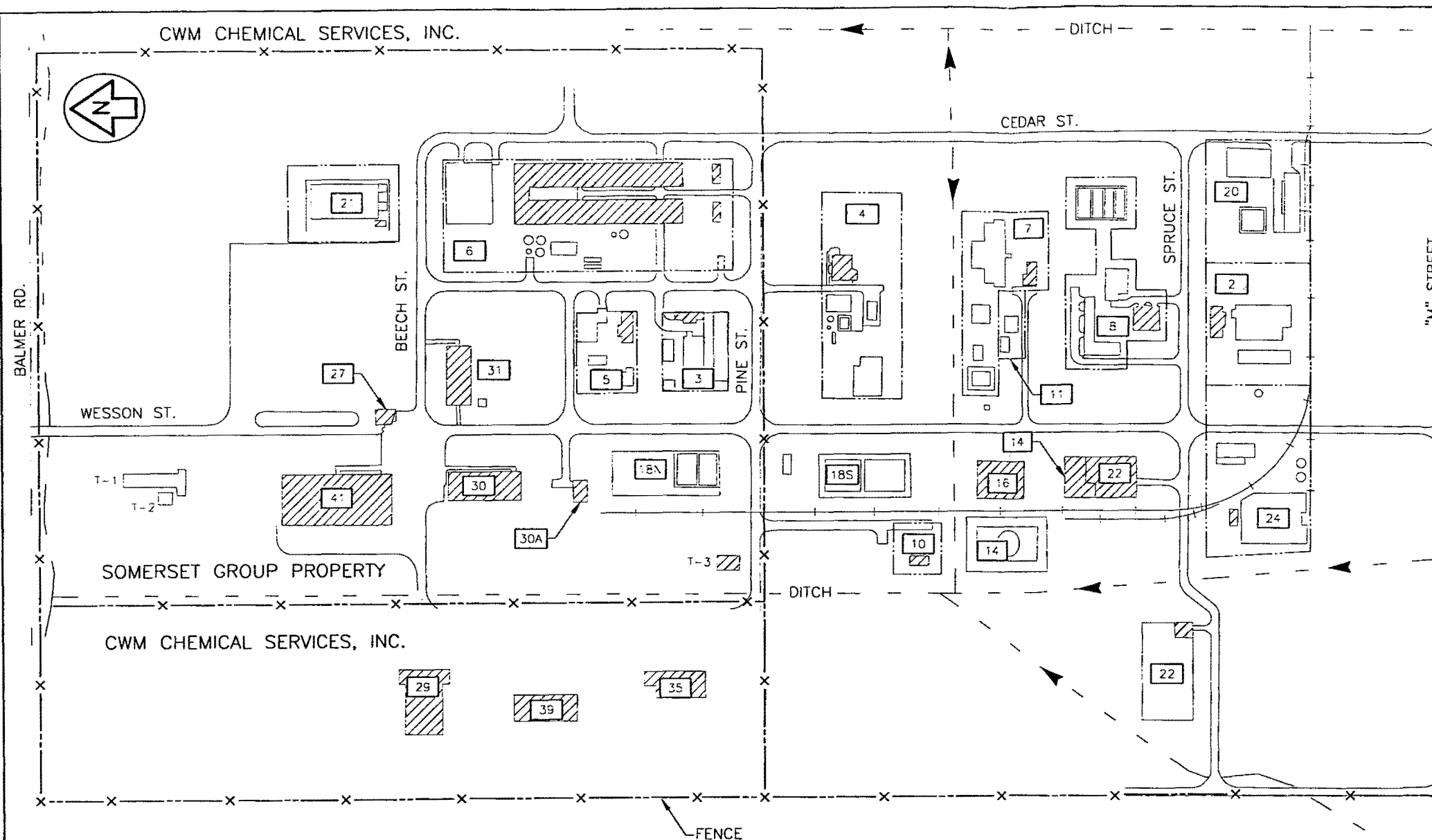
Materials left behind after the decommissioning effort include building debris such as concrete and steel, pipe and scrap steel, as well as various types of asbestos-containing materials (ACMs). The proposed Interim Remedial Measure (IRM) will include the removal of loose ACMs located on the Somerset Group property. Although ACMs are not covered under DERP, the Corps of Engineers, Kansas City District (previous administrator of the project) made a special exception to include the removal of loose ACMs from the Somerset Group property.

The purpose of the asbestos survey is to obtain the data necessary to quantify and qualify ACMs at the site so that an accurate estimate of the proposed asbestos removal effort can be made. In order to accomplish this, Acres personnel performed a detailed site investigation which included the collection and analyses of representative samples of Potential Asbestos Containing Materials (PACMs), collection and analyses of soils samples from locations throughout the property, and a visual estimation of the quantity and extent of ACMs at the site. The investigation also included sampling and analyses of paint samples in order to determine the possible presence of lead-based paint amongst the ACMs to be removed in the planned IRM.

1.3 Organization of this Report

Section 2 provides a brief description of the inspection procedures and analytical protocols employed as part of this investigation. Section 3 provides a detailed description of the types and locations of PACMs sampled along with the presentation of analytical results. Section 4 presents a detailed description of the types and locations of paint samples along with a presentation of analytical results. Finally, Section 5 presents recommendations of the types of remedial methods and an estimation of the associated level of effort required to perform the ACM removal action.

Appendix A provides copies of photographs taken during the asbestos survey. Appendix B provides copies of analytical results. Appendix C provides estimates of the level of effort anticipated for the asbestos removal action based on recommendations presented in Section 5. Appendix D presents certification for personnel involved in the asbestos survey and preparation of this report.



AREA DESIGNATION

T-1	TEMPORARY BUILDING #1	18N	TANK FARM
T-2	TEMPORARY BUILDING #2	18S	TANK FARM
T-3	TEMPORARY BUILDING #3	20	PRODUCT HANDLING
2	CHLORINATION UNIT	21	ELECTRICAL SUBSTATION
3	HYDROGENATION UNIT	22	WATER SUPPLY AND TREATMENT
4	GAS SYNTHESIS	24	SANITARY SEWAGE AND WASTE DISPOSAL
5	SALT PURIFICATION	27	GUARD HOUSE
6	SALT ELECTROLYSIS	29	OFFICE BUILDING
7	PYROLYSIS UNIT	30	NON-COMBUSTIBLES WAREHOUSE
8	ALKYLATION UNIT	30A	COMBUSTIBLES WAREHOUSE
10	HYDROGEN PRODUCTION	31	LABORATORY
11	NITROGEN PRODUCTION	35	DISPENSARY
14	STEAM PLANT	39	CAFETERIA
16	REFRIGERATION AND STEAM PLANT	41	MAINTENANCE SHOP

NOTES

BASE MAP TAKEN FROM DRAWINGS PREPARED BY CATALYTIC CONSTRUCTION CO., SINGMASTER-BREYER, BLAW-KNOX, WALTER KIDDIE CONSTRUCTION CO. AND J.G. WHITE.

REFERENCE DRAWINGS UTILIZED WERE MADE AVAILABLE BY THE SOMERSET GROUP, INC.

0 300 600 FEET
SCALE

FORMER LOOW
WASTEWATER TREATMENT PLANT
TOWN OF LEWISTON PROPERTY

LOOW
AIR FORCE PLANT NO. 68
SITE LAYOUT

0 .5 1 MILE
SCALE

LOOW SITE
LOOW LOCATION MAP

2 Inspection and Analytical Protocols

2.1 Inspection

As discussed in Section 1, the asbestos survey of the Somerset Group property was performed to obtain data necessary to quantify and qualify ACMs on the property so that an accurate estimation of an asbestos removal action can be made. The survey investigated PACMs within all readily-accessible building spaces. Soil samples were also collected for analysis to identify the presence and extent of asbestos in the soils across the site. Acres personnel also conducted a sitewide visual survey to estimate the quantities of bulk ACMs found scattered across the site. Video and photo documentation of the property and buildings was also included as part of the field inspection.

The inspection consisted of an inventory of building materials within and in the immediate vicinity of each building. At a minimum, materials which make up floors, walls, and ceilings along with thermal insulations were inspected. Upon completion of the building inspection phase, representative samples of each PACM was collected and sent to Chopra-Lee, Inc. for analysis.

Not all areas within each structure were accessible and, therefore, were not sampled nor included in the evaluation of ACMs at the site. Inaccessible areas included but were not limited to ceiling plenums, behind walls, inside enclosed shafts, underground piping, pits filled with liquids, under carpeting or other resistant flooring materials, and areas inaccessible due to height and/or poor physical conditions such as roofs and high ceiling piping.

2.2 Analytical Procedures

Analytical testing services were performed by Chopra-Lee, Inc. using polarized light microscopy (PLM) in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" EPA-66/M4-82-020, dated December 1982, and New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) Method 198.1. All non-organically bound materials (NOBs) which included roof flashing, seam wrap, duct wrap, expansion joint, mastic, floor tile, and cove base materials were also analyzed by transmission electron microscopy (TEM) according to NYSDOH ELAP Method 198.4. Bulk samples were collected in triplicate and were typically analyzed to the first positive detection of asbestos minerals. Asbestiform mineral identification and relative percent composition were made regarding minerals present from the Serpentine and Amphibole groups. These include: Chrysotile, Amosite (Grunerite), Anthophyllite, Crocidolite, Actinolite, and Tremolite.

Analyses for lead in paint samples were performed by Chopra-Lee, Inc. using flame atomic absorption spectrometry following ASTM Method D3335A.

3 Asbestos-Containing Materials Investigation

Acres personnel performed an investigation of PACMs at the Somerset Group property during the period of November 10 through 20, 1997. The weather was generally cold with daily temperatures between 25-45°F, and occasional light snow. A total of 67 samples composed of 63 bulk and four surface wipe samples were collected from the Somerset property. Bulk samples were designated with the identification of 1-001 A,B,C, 1-002 A,B,C, 1-003 A,B,C, etc. The prefix "1" indicates that the sample was collected from the first level or ground floor. The prefix "2" was used to designate samples collected from the second level in Building 6-01. The suffix letter designation "A", "B" and "C" identifies bulk samples collected in triplicate. All bulk samples were collected in triplicate in accordance with OSHA guidelines.

A bulk sample of PACM was also collected on November 25, 1997, from the mixing house located at the former wastewater treatment plant in Area 24 south (Town of Lewiston property). This building is scheduled to be demolished during an IRM on the former TNT sewer pipeline. No ACMs were detected in this sample (see Table 3-1).

A total of 176 soil samples were also collected from the Somerset Group property. A 100-ft grid was established at the site prior to the collection of soil samples. A total of 135 samples were collected from 118 grid nodes in order to characterize the spacial distribution of ACM in soils across the site. Of this total, 118 samples represented surface soils collected from a depth of 0 to 4 inches. The remaining 17 samples represent subsurface soils collected from a depth of 6 to 12 inches. Those samples taken at greater depths were paired with a corresponding surface soil sample and were used to determine whether the ACMs were present at depth. The deep samples were given the same sample designation as the shallow samples but were also given the suffix "D". ACMs were detected in 20 of the surface soil samples collected from the grid nodes. No ACMs were detected in the soil samples taken at depth. Sampling and analytical results are discussed in greater detail below.

In addition to the grid node soil samples, 21 soil sampling points were selected from areas which represented the greatest visible potential for soil contamination due to the presence of PACM debris. These locations were in the vicinity of Buildings 6-01, 6-02, and 6-03; Building 30A; and Areas 3 and 5. Both surface and subsurface soils were collected at these locations, except for Location S-110 where only a surface soil sample was collected. ACMs were detected in only two surface soil samples from these select locations (i.e., S-104 and S-105 from the courtyard of Building 6-01).

Modifications to the collection of soil samples on the sitewide grid system included Soil Sample S-029, which was not collected because this grid node location fell inside Building 41. Samples S-028 and S-053 were relocated slightly from their corresponding grid nodes to the lawn adjacent

to the building where the nodes were plotted. Samples S-064 and S-064D were moved 30 ft south to be off a concrete process area foundation. Soil Sample S-110 was selected to investigate soil conditions within a large soil mound in the northeast corner of the property.

During the investigation, particular attention was directed toward visually characterizing the appearance and types of the various PACMs. Based on this visual characterization, Acres segregated PACM surfacing materials, thermal system insulation, building materials, or miscellaneous materials that were uniform in color, texture, or apparent composition into homogeneous PACM categories. Based on this categorization, materials such as corrugated transite panels which were present throughout the property were considered to be of the same composition and were not repeatedly sampled for analysis.

PACMs were divided into three categories:

- (1) Thermal system insulation (TSI)
 - Pipe insulation
 - Pipe elbow insulation
 - Duct wrap
- (2) Construction materials
 - Transite panels
 - Ductwork
 - Roofing materials
 - Floor tile
 - Acoustical ceiling tile
- (3) Miscellaneous materials
 - Bagged mortars
 - Cements
 - Seam wraps
 - Mastics
 - Caulks

PACMs were also divided into two main categories of asbestos: friable and non-friable. For example, TSI was typically friable (i.e., easily crumbled by hand pressure) and was susceptible to damage by exposure and disturbance. Non-friable PACMs had the asbestos fibers bound in a matrix and were more resistant to damage and weathering. Some non-friable PACMs were also identified as non-organically bound (NOB) materials such as floor tiles, seam wrap, and roof flashing.

Tables 3-1 through 3-9 summarize the sample identification numbers, matrix, location, condition, and quantity of each bulk material sampled during the investigation. Tables 3-1 and 3-3 through 3-9 summarize bulk asbestos samples collected throughout the site. Table 3-2 summarizes soil sample locations that had positive detections of asbestiform minerals. Figures 3-1 and 3-2 indicate the sample collection locations.

3.1 Area 3 - Hydrogenation

3.1.1 Building 3-01

Building 3-01 was the former hydrogenation area control building located in the south-central portion of the Somerset property, south of Area 5 and east of the main access road (see Figure 3-1 and Table 3-1). This building appeared to have been most recently used by the current property owner for the limited storage of plastics and additives used in plastic formulation and some equipment associated with these operations. No TSI or TSI debris was evident within the confines of the building nor had any appeared to have been removed from the building. Acres collected one triplicate sample (1-053) of the light grey window glazing found inside the structure. This material was in poor condition, crumbly, and spalling off the window. Analysis by PLM indicated that no asbestos was detected.

3.1.2 Area 3 Process Area and Tank Farm

Extensive PACM debris was found outside surrounding Building 3-01, particularly on the north, west, and south sides. Along the west side, PACM debris was spread across the process area foundations almost to the main access road that bisects the property into east and west portions. To the south, the debris is spread across pipe footers and is present within and to the south of the former tank farm. PACM debris consists primarily of steam pipe insulation, water pipe insulation, pipe elbows, and transite panels, and is mixed amongst scrap metal and building debris. The building debris includes structural steel, concrete, and masonry that ranges in size from small rubble to large chunks of concrete and steel weighing several tons. The heterogeneous mixture of the debris made a detailed estimation of PACM difficult for this area.

Numerous surface and subsurface soil samples were collected in the vicinity of Building 3-01 (see Figure 3-2). However, only one sample contained detectable concentrations of ACM. The analytical results for Soil Sample S-008, collected from the west of Building 3-01, indicated the presence of <1 percent Chrysotile asbestos.

3.2 Area 5 - Salt Purification

3.2.1 Building 5-01

Building 5-01 was the former salt purification control building and is located in the south-central portion of the Somerset property, north of Area 3 and east of the main access road (see Figure 3-1 and Table 3-1). This building appeared to have been used as an electrical supplies warehouse, possibly resulting from the decommissioning of AFP-68. The contents of this building consisted of stockpiled electrical parts, light fixtures, wire rolls, and abandoned electrical equipment. No TSI or TSI debris was evident within the confines of the building nor had any appeared to have been removed from the building. Acres collected one PACM triplicate sample designated 1-054 of the light grey window glazing found inside the structure. This material was in poor condition, crumbly, and spalling off the window. Analysis by PLM indicated that no asbestos was detected.

3.2.2 Area 5 Process Area and Tank Farm

PACM debris was found outside Building 5-01 on the west and south sides. The area north of the building had scrap materials, consisting primarily of piping, piled on a former concrete process area foundation. No PACMs were found in the inspection of this debris. Along the west side of the building, ACMs were noted to be spread across process area foundations and the former electrical substation. The area to the south contained PACM debris which consisted primarily of piping and pipe insulation. (Note that these PACMs were identified as belonging to the same homogeneous categories as materials sampled in Area 6 and, therefore, were not resampled in this area).

Several surface and subsurface soil samples were collected in the vicinity of Building 5-01 (see Figure 3-2). However, ACMs were not detected in any of the samples.

3.3 Area 6 - Salt Electrolysis

3.3.1 Building 6-01

Building 6-01 is located in the southeast corner of the Somerset property, east of the main access road (see Figure 3-1). Building 6-01 was originally constructed to be used for a salt electrolysis process. This two-story process building measures approximately 360-ft long by 130-ft wide and is the largest structure on the property. This building also contains the largest amount of PACMs on the property. Building 6-01 is a U-shaped, two-story building composed of a steel structure covered by corrugated transite panel roofing.

and transite panel side walls. The building was decommissioned before going into production and was subsequently partially dismantled. Many of the side wall panels were removed as part of the decommissioning effort.

For the purposes of this survey, the building was delineated into sections composed of an east wing, west wing, and the northern end. The northern end of the building appeared to have formerly been used to house the building mechanical components, with some areas functioning as office spaces. The east and west wings were the production areas and are separated by a courtyard area approximately 20-ft wide.

Many of the bulk PACMs on the Somerset property were initially categorized based on materials found in Building 6-01 and in the immediate surrounding area. These materials include corrugated transite panels, TSI, and other miscellaneous materials which are described in more detail below (see Table 3-3 for analytical results).

Transite Panels

The Building 6-01 roof and exterior side walls were composed of corrugated transite panels. The roof panels are generally intact but leaking in some places. The side wall panels of the building had been removed from the steel structure to a point where only about the top one row of panels remain attached. The transite panels removed from these side walls have been stockpiled haphazardly within and around the outside of the building. Many of these panels appeared to have been dropped to the ground during removal, leaving many panels broken and spread on the ground around the perimeter of the building and within the courtyard area.

Two triplicate samples of the corrugated transite panels were collected and designated as Samples 1-008 and 2-009 (see Table 3-3). Analytical results indicate that the panels contain between 28 and 36 percent Chrysotile. Though non-friable, many of the panels have been exposed to the elements for over 40 years and are showing signs of mold and algae growth and softening of the matrix. The condition of the panels ranged from good to poor. The panels represent the bulk (80 to 90 percent) of the ACM in the building. Numerous small, broken pieces are found scattered around the perimeter of the building, with some partially buried and overgrown with vegetation.

Thermal Systems Insulation

A large portion of the building's piping system had been dismantled and removed from the pipe support structures within the building. The majority of the piping remaining in the building appears to have been steam distribution piping and is either still hanging by ceiling and wall supports or is present in piles within the building. The steam distribution

pipng generally runs down the side of the east and west wings on both the upper and lower levels to fan-coil units hung from the ceiling. It appears that all copper potable and service plumbing had been removed from the building prior to this survey. It is unknown if the plumbing conveying hot water was insulated.

Because the building panels have been removed from the structure for many years, the interior piping network has been exposed to the elements, which has resulted in the deterioration of the TSI around most of the steam distribution piping. The greater percentage (70 to 90 percent) of this TSI has fallen from the piping onto the floor and/or ground surface as well as on miscellaneous equipment stored along the walls of the east and west wings on the lower level of the building. The TSI remaining on the pipes is predominantly in poor condition and is often missing the exterior protective wrapping. Typically, only half of the TSI shell on the piping remains, and in many places the TSI that is present is hanging loosely from the pipes. Due to its poor condition, encapsulation or enclosure are not considered feasible.

The TSI was also found scattered within the vegetation along the perimeter of the building. The soft, friable nature of this would indicate that these materials have been transported by wind and precipitation away from the building into the adjoining soils and vegetation. It was often difficult to distinguish the source of TSI (e.g., pipe insulation or pipe elbows) that had fallen off the overhead piping onto the debris and vegetation below.

One triplicate sample of the pipe insulation was collected and designated as Sample 1-002 and one triplicate sample of a pipe elbow was collected and designated as Sample 1-006. Analyses indicated that the pipe insulation contained 38 percent asbestiform minerals, almost equally divided between Amosite and Chrysotile. No asbestos was detected in the pipe elbows sampled.

Several small piles of miscellaneous loose, fibrous, friable debris of unknown origin are found scattered throughout the building. Two triplicate samples of this material were collected and designated as Samples 1-003 and 1-005. Sample 1-003 was analyzed and found to contain between 42 and 45 percent asbestiform minerals, almost equally divided between Amosite and Chrysotile. Sample 1-005 was found to contain between 21 and 27 percent Chrysotile. These miscellaneous piles are likely to have originated from fallen pipe insulation that has softened and weathered through the years. Both debris piles are subject to wind and rain action.

Miscellaneous Materials

One triplicate sample designated as Sample 1-001 was collected from a pile of open bags containing asbestos mortar and other unknown materials on the lower level of the

east wing. The labels on these bags have deteriorated from exposure to the elements and are no longer legible. Analyses failed to detect asbestos in the sampled material, however, analytical results from a previous investigation (i.e., Preliminary Contamination Assessment Report, Operable Unit No. 2, Acres International Corporation, December 1992) indicated that 16 of the 32 bags were labeled as asbestos-containing mortar. Since the bags are no longer intact, it is assumed that cross contamination of the entire pile has occurred, and therefore all of this material should be treated as a homogeneous ACM during remediation.

One triplicate sample of roof flashing was collected and designated as Sample 2-010 A,B+C. This material is in poor condition from years of exposure and is falling off the second floor office roof located at the north end of Building 6-01. Analytical results indicate that this NOB material contains between 17 and 21 percent Chrysotile.

Caulking had apparently been used to seal the seams of the transite panels. Almost all of this caulking material is missing and is presumed to have fallen off the panels during removal or during subsequent weathering; what little caulking remains is dry and brittle. Triplicate Sample 2-012 was collected of the caulk and was determined to contain between 4 and 5 percent Chrysotile.

One triplicate NOB sample designated as 1-015 was collected from the black, bituminous expansion joint that had been used between the concrete floor slabs and cinder block structure at the north end of Building 6-01. This expansion joint material was dry and crumbly, and had weathered out from the seams and fallen on the floor. Analytical results indicated that this material was composed of between 7 and 12 percent Chrysotile.

Acres also collected triplicate samples of vitreous pipe (Sample 1-004), electrical insulators (Sample 1-007), transite panel seam wrap (Sample 2-011), concrete floor (Sample 2-013), and window glazing (Sample 2-014). The analytical results indicated that none of these samples contain asbestos.

Two large hoppers are also present on the second floor of Building 6-01. The insulation surrounding these hoppers was previously sampled (Preliminary Contamination Assessment Report, Operable Unit No. 2, Acres International Corporation, December 1992) and determined to contain approximately 15 percent asbestiform minerals. This insulation is friable and exposed to the elements.

Soil Samples

Soil Samples S-069, S-071, S-104, and S-105 were collected from the Building 6-01 area and were determined to contain asbestiform minerals (see Table 3-2).

3.3.2 Building 6-02

Building 6-02 is found immediately south of Building 6-01 and was associated with the salt electrolysis process and formerly housed liquid metal storage tanks. The building is constructed of cinder block walls and concrete floor and is in reasonably good condition. The tank and all piping had been removed. Loose, crumbled, friable and fibrous TSI is found scattered across the floor in this building. One triplicate sample of this TSI material was collected and designated as Sample 1-016 (see Table 3-4). One wipe sample of the wall near the doorway entrance was also collected and designated as Sample 1-017. The TSI was determined to contain between 41 and 46 percent asbestiform minerals almost equally divided between Amosite and Chrysotile. No asbestos was detected in the wipe sample.

3.3.3 Building 6-03

Building 6-03 is found immediately south of Building 6-01, west of Building 6-02. This building is a twin of Building 6-02 and was associated with the salt electrolysis process and formerly housed liquid metal storage tanks. The building is constructed of cinder block walls and concrete floor and is in reasonably good condition. The tank and all piping have been removed. Loose, crumbled, friable and fibrous TSI was found scattered across the floor in this building. One triplicate sample of this TSI material was collected and designated as Sample 1-018 (see Table 3-4). One wipe sample of the wall near the doorway entrance was also collected and designated as Sample 1-019. The TSI was determined to contain between 41 and 43 percent asbestiform minerals almost equally divided between Amosite and Chrysotile. No asbestos was detected in the wipe sample.

3.3.4 Area 6 Vicinity

Between 150 and 200 transite panels were found on the ground between Buildings 6-02 and 6-03 and to the north of these buildings and Building 6-01. Most of the panels have begun to weather due to years of exposure to the elements. Many of the panels had been placed in stacks by the current property owner.

Remnants of steam pipe insulation were also evident and mixed within the overgrown vegetation in this area. Pipe support footers and cradles were followed to determine the former location of this overhead piping. Similar material was sampled outside of Building 30A (triplicate Sample 1-047) and tested positive for the presence of asbestiform minerals. Based on these results, it is assumed that all the steam pipe insulation debris is considered ACM.

3.4 Area 18N - Tank Farm

Area 18N was a former tank farm area found west of the main access road across from Areas 3 and 5 (see Figure 1-1). The area consists of a concrete-diked structure divided into two containment areas. All tanks were removed from the area during the decommissioning. No bulk asbestos samples were collected by Acres from this area. Some steam pipe insulation debris was encountered in this area and was observed to be widely scattered.

Soil samples were collected throughout this area based on the sitewide 100-ft grid spacing. Soil Samples S-009, S-010, and S-034 collected from this area came up positive for the presence of asbestiform minerals (see Table 3-2). Soil Samples S-009 and S-010 have the second and third largest percentage of asbestos encountered in the site soils during the investigation at 3 and 2 percent, respectively.

3.5 Area 21 - Electrical Substation

Area 21 was the former electrical substation located north of Area 6 (see Figure 1-1). Area 21 consists of a switch house (Building 21-01) and several power line support foundations. All piping had since been removed. One triplicate sample of the window glazing material was collected from Building 21-01 and designated as Sample 1-064 (see Table 3-5). No asbestos was detected in the sample.

Soil Samples S-080 and S-085 were collected from this area and contained <1 percent Chrysotile (see Figure 3-2 and Table 3-2).

3.6 Building 27 - Guard House

Building 27 consists of the former guard house and parking area and is located in the north-central portion of the property (see Figure 1-1). No TSI or TSI debris was evident within the confines of the building. One triplicate sample of the window glazing material was collected and designated as Sample 1-037 (see Table 3-5). Acres also collected one triplicate sample of the ceiling tile designated 1-036. No asbestos was detected in either sample.

A small refrigeration shed is found just northeast of the guard house. One triplicate sample of the construction panels which appear to be made from transite was collected and designated as Sample 1-065. No asbestos was detected in the sample using PLM.

Soil Samples S-114, S-116, S-117 and S-121 were collected north of this area and were determined to contain <1 percent Chrysotile (see Table 3-2).

3.7 Building 30 - Non-Combustibles Warehouse

Building 30 consists of the former non-combustibles warehouse and is located in the northwestern portion of the property. The building consists of a 60 ft by 140 ft single story building. The building is currently used for beneficial storage by the current property owner. The roof of this structure has partially collapsed along the east and west side walls. Roofing materials, concrete panels, ceiling tiles, plaster, and pipe insulation has fallen to the floor under areas where the roof has collapsed. The exterior of the building has a single run of attached corrugated asbestos siding panels surrounding about two-thirds of the building. A few loose transite panels were present on the ground surrounding this building.

As shown in Table 3-6, Acres collected seven triplicate samples of the ceiling tile (Sample 1-020), floor tile (Sample 1-021), pipe elbows (Sample 1-022), pipe insulation (Sample 1-023), ceiling plaster (Sample 1-024), roof flashing (Sample 1-025), and concrete roof panels (Sample 1-026). The pipe insulation was determined to contain between 39 and 43 percent asbestiform minerals almost evenly divided between Amosite and Chrysotile. No asbestos was detected in any other of the samples.

Soil Samples S-013 and S-014 were collected east of this building and the analyses detected <1 percent Chrysotile (see Table 3-2).

3.8 Building 30A - Combustibles Warehouse

Building 30A was the former combustibles warehouse and is located directly south of Building 30. The structure consists of a 24 ft by 40 ft single story building currently used for limited storage of miscellaneous items by the current property owner (e.g., machinery and building materials). The roof of this structure has partially collapsed along the south wall. Roofing materials, concrete panels, and pipe insulation has fallen to the floor under areas where the roof has collapsed. The exterior area east of the building contains a large pile of transite ductwork and steam pipe insulation. A large pile of scrap metal exists in the area immediately north of the building.

As shown in Table 3-7, a total of 12 triplicate samples were collected from the building and included pipe insulation (Sample 1-038), ceiling tile (Samples 1-039 and 1-040), joint compound

(Sample 1-041), asbestos mortar (Sample 1-042), cement (Sample 1-043), concrete roof panels (Sample 1-044), pipe elbow (Sample 1-045), mastic (Sample 1-046), steam line pipe insulation (Sample 1-047), transite ductwork (Sample 1-048), window glazing (Sample 1-049) and two wipe samples (Samples 1-050 and 1-051).

The pipe insulation (Sample 1-038) was determined to contain 46 percent asbestiform minerals, almost evenly divided between Amosite and Chrysotile. The pipe insulation is in poor condition, with most missing from the interior piping and scattered across the floor. The bagged asbestos mortar was determined to contain 33 percent Chrysotile. Approximately five bags were found in the building along the south wall. All of the bags are water damaged, and their contents are mixed with the bagged cement materials which were determined to be non-asbestos in composition. This mixture has been partially spread out across the floor.

The NOB panel mastic used to glue the paneling contained 12 percent Chrysotile. The mastic was dry and brittle, and was present on the back of a stack of paneling sheets stored inside the building along the north wall.

The steam line pipe insulation was found outside in a large pile of debris and was determined to contain 31 percent Amosite. The transite ductwork found in the same pile was analyzed and found to contain 47 percent asbestiform minerals, almost equally divided between Amosite and Chrysotile.

Wipe Sample 1-050 was analyzed and found to be 6 percent Chrysotile. This wipe sample was collected from the floor in the southwest corner of the building. Wipe Sample 1-051 was collected from the wall above the bagged asbestos mortar, and no asbestos was detected in this sample. It is likely that precipitation entering through the collapsed roof washes the wall on a regular basis where Wipe Sample 1-051 was collected.

No asbestos was detected in any other of the samples.

3.9 Building 31 - Laboratory

Building 31 was the former laboratory and is located in the north-central portion of the property. The structure consists of a single-story building, approximately 40 ft by 120 ft in size. The building is currently occupied on a regular basis by the current property owner and is used as an office and for the storage of miscellaneous items including machinery, tools, and office supplies. The roof of this structure has partially collapsed along the north wall, and numerous other leaks were evident during the inspection. Roofing materials, concrete panels, ceiling tiles, and pipe insulation has fallen to the floor under areas where the roof has collapsed.

As shown in Table 3-8, Acres collected 10 triplicate samples from the building including panel mastic (Sample 1-055), floor tile (Sample 1-056), ceiling tile (Sample 1-057, 1-059, and 1-063), ceiling plaster (Sample 1-058 and 1-066), cove base (Sample 1-060), pipe elbows (Sample 1-061), and duct wrap (Sample 1-062).

The NOB panel mastic used to glue the paneling contained 15 percent Chrysotile. The mastic was dry and brittle, and was on the back of the paneling. The paneling was found throughout the building. At the time of the inspection, all of the paneling was attached to the walls.

The pipe elbow sample was determined to contain 30 percent Chrysotile. Acres was unable to obtain an accurate count of the number of elbows in the building, due to suspended ceiling tiles in place. It is presumed that any pipe elbows in areas affected by moisture have been damaged due to their friable nature.

No asbestos was detected in any of the other samples.

Soil Samples S-001, S-002, and S-003 were collected west of this building, just east of the main access road, and contain asbestiform minerals (see Table 3-2). Soil Samples S-001 and S-002 have the third and first largest percentage of asbestos encountered at the site soils during the investigation at 2 and 4 percent, respectively. Sample S-003 contained <1 percent Chrysotile.

3.10 Building 41 - Maintenance Garage

Building 41 is located in the northwest corner of the property and consists of the former maintenance garage. The building is a single-story structure occupying approximately 23,000 square ft used by the current property owner for vehicle repair and storage. The roof of this structure has partially collapsed along the east and west walls. Roofing materials, concrete panels, and pipe insulation has fallen to the floor under areas where the roof has collapsed. The exterior of the building contains a stack of transite panels on the west side and several small piles of PACMs along the south end.

As shown in Table 3-9, Acres collected nine triplicate samples including pipe insulation (Sample 1-027), pipe elbows (Sample 1-028), ceiling plaster (Sample 1-029), concrete roof panels (Sample 1-030), roof flashing (Sample 1-031), duct wrap (Sample 1-032), floor tile (Sample 1-033), tank insulation (Sample 1-034), and make-up water tank insulation (Sample 1-035).

The NOB duct wrap had a black, bituminous coating that was determined to be 10 percent Chrysotile. This material was starting to show signs of age but is still in good condition except where subjected to the elements.

The small area of beige 9 inch by 9 inch floor tile outside the mens restroom was determined to be 7 percent Chrysotile. The tile was non-friable and was in good condition.

The make-up water tank insulation adjacent to the boiler in the mechanical room was determined to contain 43 percent asbestiform minerals almost equally divided between Amosite and Chrysotile.

No asbestos was detected in any other of the samples.

3.11 Temporary Buildings T-1 and T-2

This area consists of two concrete floor foundations from former temporary Buildings Nos. 1 and 2. The actual buildings are no longer present. Approximately 100 transite panels were stacked on these foundations along with 15-20 eight foot lengths of transite ridge covers. No bulk asbestos samples were collected from this location for analysis.

Soil Sample S-039 was collected west of this area and contained <1 percent Chrysotile.

3.12 Temporary Building T-3

Temporary Building No. 3 is located in the southwest corner of the property. The building is a 40-ft-high steel framed structure with steel siding and steel roofing. The building is currently used by the property owner for equipment and machinery storage. Acres collected one triplicate sample of the window glazing material designated as Sample 1-052 (Table 3-1). No asbestos was detected in the sample.

3.13 Pipe Bridge

The pipe bridge was found to the northwest of Temporary Building No. 3. It spans the drainage ditch on the western side of the Somerset property and was apparently used to distribute steam to the former AFP-68 administration buildings located on property presently owned by CWM. The large diameter pipe is insulated and covered with an aluminum wrapping. The insulation is in poor condition and partially falling off of the pipe. Several of the pipe elbows are missing insulation.

Acres collected one triplicate sample of the pipe insulation designated as Sample 1-067 (Table 3-1). The pipe insulation was determined to contain 36 percent asbestiform minerals almost evenly divided between Amosite and Chrysotile.

3.14 Soil Sampling Results

Acres collected 176 soil samples across the property. Of this amount, 135 samples were collected from points based on the 100-ft sitewide grid spacing and were collected to characterize spacial soil conditions across the site (see Figure 3-2). Of this total, 118 represent surface soils collected from a depth of 0 to 4 inches. Another 17 samples represent subsurface soils collected from a depth of 6 to 12 inches at 17 of these 118 locations.

Soil sampling results were discussed previously under each subsection where asbestiform minerals were detected during bulk ACM sampling. Asbestos was found in 22 soil samples. Of the 22 samples, only four had asbestos contents above 1 percent, with the highest asbestos content being 4 percent found at Sampling Location S-002. All of the highest asbestos contents in the soils occurred to either side of the main access road on the southern half of the property. This area was known to have an extensive overhead steam pipe distribution network, and some of the debris was still visibly scattered across the soils. Ten piles of transite panels were also staged along this access road.

Table 3-2 summarizes those soil sample locations that were analyzed and came up positive for the presence of asbestiform minerals.

3.15 Miscellaneous Asbestos-Containing Materials

Figure 3-1, Bulk Asbestos Sampling Locations, shows those areas of the property where asbestos-containing debris was detected. The shaded areas on this figure indicate the probable extent of the debris and its relationship to potential soil contamination. Acres has presumed cleanup of this debris and shallow surface soils will be required as part of the remedial action recommendations, as described in Section 5 of this report.

Figure 3-1 also identifies the location and the quantity of transite panels staged throughout the site. These quantity estimates do not take into account all of the numerous broken pieces of paneling scattered across the property which were often difficult to identify due to piled debris, overgrowth of vegetation, and partial burial in the soils. Acres has estimated an additional 2,500 to 5,000 square ft of transite panels were found in this condition.

TABLE 3-1
BUILDINGS T-3, 3-01, 5-01, AND WTP MIXING HOUSE
BULK ASBESTOS SAMPLING LOCATIONS AND RESULTS
SOMERSET GROUP PROPERTY
LOOW

SAMPLE ID	MATRIX	ACM	LOCATION	CONDITION	QUANTITY/COMMENTS
WTP - Mixing House					
WWTP - 1 A, B, C	Black Roof Flashing	No	From collapsed roof on the mixing house structure.	Poor (100%)	Wooden structure is collapsing into the influent mixing house. Black, asphaltic, fibrous roofing materials were sampled. Total square footage of this material estimated to be approximately 440 square ft.
Building 3-01					
1-053 A,B,C	Window Glazing	No	All windows still in place in the building.	Poor (100%)	Approximately 210 linear ft of light gray window glazing. Glazing is loose, dry, friable. Half of the glazing is on the floor.
Building 5-01					
1-054 A,B,C	Window Glazing	No	All windows still in place in the building.	Poor (100%)	Approximately 260 linear ft of light gray window glazing. Glazing is loose, dry, friable. Half of the glazing is on the floor.
Temporary Building No. 3					
1-052 A,B,C	Window Glazing	No	All windows still in place in the building.	Poor (100%)	Approximately 1,200 linear ft of light gray window glazing. Glazing is loose, dry, friable. Half of the glazing is on the floor.

TABLE 3-2
SOIL SAMPLING LOCATIONS AND RESULTS
SOMERSET GROUP PROPERTY
LOOW

SAMPLE ID	SAMPLING LOCATION	ASBESTOS CONTENT (%)
S-001*	West of Building 31, east of main access road	2% Chrysotile
S-002*	West of Building 31, east of main access road	4% Chrysotile
S-003*	West of Building 31, east of main access road	< 1% Chrysotile
S-008*	West of Building 3-01, east of main access road	< 1% Chrysotile
S-009*	East of Area 18N, west of main access road	3% Chrysotile
S-010*	East of Area 18N, west of main access road	2% Chrysotile
S-013*	East of Building 30, west of main access road	< 1% Chrysotile
S-014*	East of Building 30, west of main access road	< 1% Chrysotile
S-034*	North of Area 18N, west of main access road	< 1% Chrysotile
S-039*	West of T-1 and T-2, adjacent to main drainage ditch	< 1% Chrysotile
S-067*	West of Building 6-03, east of Building 3-01	< 1% Chrysotile
S-069*	West of Building 6-01, east of Building 5-01	< 1% Chrysotile
S-071*	West of Building 6-01, near concrete tank farm	< 1% Chrysotile
S-080*	North of Area 21	< 1% Chrysotile
S-085*	Southeast of Area 21, north of Building 6-01	< 1% Chrysotile
S-101*	Between Buildings 6-01 and 6-02	< 1% Chrysotile
S-104	Between the east and west wings of Building 6-01	< 1% Chrysotile
S-105	Between the east and west wings of Building 6-01	< 1% Chrysotile
S-114*	In the northeast corner of the property in forested area	< 1% Chrysotile
S-116*	In the northcenter of the property in open field	< 1% Chrysotile
S-117*	In the northcenter of the property east of main access road	< 1% Chrysotile
S-121*	In the northcenter of the property in open field	< 1% Chrysotile

- Indicates grid nodes sample location. Data represent only those samples which were determined to contain ACMs (see Figure 3-2 for soil sample locations).

TABLE 3-3
BUILDING 6-01
BULK ASBESTOS SAMPLING LOCATIONS AND RESULTS
SOMERSET GROUP PROPERTY
LOOW

SAMPLE ID	MATRIX	ACM	LOCATION	CONDITION	QUANTITY/COMMENTS
1-001 A,B,C	Bagged asbestos mortar	No	Found on the floor, southwest corner of east wing of building.	Poor (100%)	<ul style="list-style-type: none"> 32 - 50-lb. bags of white, friable, loose, wind-blown powder. About half of the bags are torn and open. Trade name is John's Manville Hy-Flow Super Cel mortar
1-002 A,B,C	Piping - w/insulation - w/o insulation	Yes	Pipes found about 12 ft above the floor on both levels. Appears that at least 50% of the piping has been removed and is laying as scrap material on the floor.	Good (10%) Fair (20%) Poor (70%) Condition similar for material still on pipes.	<ul style="list-style-type: none"> Since the walls are missing from this building, the pipe insulation has been subject to weathering and moisture over the years. Majority of insulation laying on the ground often intermixed with scrap and vegetation, friable, soft, and weathered. 5,500 ft of pipe is presumed to have been covered with ACMs and is now without insulation, 500 ft still covered with insulation with the majority (70%) in poor condition. 80% of ACM insulation covers or had covered 1-2 inch water lines, 20% of insulation covers or had covered 6-10 inch pipes. Volume of pipe insulation remaining = 160 cu ft. Approximately 680 cu ft is missing.
1-004 A,B,C	Vitreous pipe	No	East wing, first floor stacked on pallet.	Good (100%)	<ul style="list-style-type: none"> Hard, non-friable, approximately 15 linear ft.
1-003 A,B,C 1-005 A,B,C	Loose debris	Yes Yes	Most in piles on the floor both inside and outside the building.	Poor (100%)	<ul style="list-style-type: none"> Miscellaneous piles of loose, friable material. Approximately 10 ft³ volume.
1-006 A,B,C	Pipe elbows	No	Found both attached to the remaining piping and scattered across the floor.	Good (25%) Fair (25%) Poor (50%)	<ul style="list-style-type: none"> More than half missing insulation. Friable, loose, weathered. 152 without insulation, 102 with insulation. Total volume estimated at approximately 45 cu ft of which approximately 10 cu ft remains on the pipes.
1-007 A,B,C	Electrical insulators	No	West wing, first floor in three 55-gallon drums and spilled on floor.	Good (90%) Fair (10%)	<ul style="list-style-type: none"> White, hard, non-friable. Approximately 20 cu ft total volume.
1-008 A,B,C 2-009 A,B,C	Corrugated transite panels - interior - exterior	Yes Yes	Corrugated building panels found in piles on the first and second floors inside the building, and outside adjacent to the building in both piles and scattered loose pieces.	Good (70%) Fair (15%) Poor (15%)	<ul style="list-style-type: none"> Interior - 30 (3'6" x 5'), 453 (3'6" x 6'), 212 (3'6" x 12') plus an additional 2000 sq ft loose debris. Exterior - 98 (3'6" x 6'), 180 (3'6" x 12') mostly along east access road, between building and west access road near the former concrete gas storage tanks, and along the south end of the building. Total = 870 transite panels, many starting to deteriorate. An additional 3,200 sq ft of flat, 1/4-inch thick, transite panels surrounds the 2nd floor steel structural members.

TABLE 3-4
BUILDINGS 6-02 and 6-03
BULK ASBESTOS SAMPLING LOCATIONS AND RESULTS
SOMERSET GROUP PROPERTY
LOOW

SAMPLE ID	MATRIX	ACM	LOCATION	CONDITION	QUANTITY/COMMENTS
Not sampled	Transite panels - exterior outside the building		On the ground between Buildings 6-02 and 6-03.	Good (70%) Fair (15%) Poor (15%)	<ul style="list-style-type: none"> Exterior - 44 (3'6" x 6'), 94 (3'6" x 12'). Total = 138 transite panels many starting to deteriorate, exposed to the elements, growing algae, soft and weathered on the edges.
1-016 A,B,C 1-018 A,B,C	Piping - w/o insulation	Yes Yes	Inside Buildings 6-02 and 6-03 on the concrete floor.	Poor (100%)	<ul style="list-style-type: none"> All of the insulation on the floor, friable. Pipes have all been removed. Acres estimates approximately 100 linear ft per building. Total = 200 linear ft. Original pipe diameter was 2 inches, total volume is approximately 20 cu ft in each building.
1-017 1-019	Wipe sample of north walls near doorway.	Not Detected	Inside Buildings 6-02 and 6-03 from the cinder block walls.	Not Applicable	<ul style="list-style-type: none"> Collected one wipe sample from each building. Samples designated 1-017 and 1-019. Both wipe samples were collected from the building walls.

TABLE 3-5
BUILDINGS 21-01, 27 AND PIPE BRIDGE
BULK ASBESTOS SAMPLING LOCATIONS AND RESULTS
SOMERSET GROUP PROPERTY
LOOW

SAMPLE ID	MATRIX	ACM	LOCATION	CONDITION	QUANTITY/COMMENTS
Building 21-01					
1-064 A,B,C	Window glazing	No	All windows still in place in the building.	Poor (100%)	<ul style="list-style-type: none"> Approximately 162 linear ft of window glazing. Half of the glazing is on the floor.
Building 27					
1-065 A,B,C	Building panels	No	Refrigeration unit just north of Building 27 - Guard House.	Good (100%)	<ul style="list-style-type: none"> Gray, hard, non-friable building panels. Less than 100 square feet.
Not sampled	Corrugated transite panels - exterior		Outside the building on the grass.	Poor (100%)	<ul style="list-style-type: none"> Exterior total = 1 transite panel in pieces, starting to deteriorate.
1-036 A,B,C	2 ft x 4 ft ceiling tile	No	Throughout the building.	Poor (100%)	<ul style="list-style-type: none"> Wet, deteriorated, all on the floor Total square footage of ceiling tile = 600 sq ft.
1-037 A,B,C	Window glazing	No	All windows still in place in the building.	Poor (100%)	<ul style="list-style-type: none"> Approximately 250 linear ft of window glazing. Half of the glazing is on the floor.
Not sampled	12 Inch x 12 Inch floor tile	Labeled VAT	Behind the front counter on the floor.	Good (100%)	<ul style="list-style-type: none"> Yellow and black alligator pattern. Two boxes of labeled vinyl asbestos tiles (VAT). Each box has 45 pieces per box. Same pattern as seen in the office in Building 30.
Pipe Bridge					
1-067 A,B,C	Steam line pipe insulation	Yes	West of Building 30A. Crosses over west drainage ditch to CWM property.	Poor (100%)	<ul style="list-style-type: none"> Large diameter (± 12 inch) steam line pipe insulation. The aluminum exterior wrapping is damaged in many places, 100 linear ft with two pipe elbows. Friable, loose, weathered.

TABLE 3-6
BUILDING 30
BULK ASBESTOS SAMPLING LOCATIONS AND RESULTS
SOMERSET GROUP PROPERTY
LOOW

SAMPLE ID	MATRIX	ACM	LOCATION	CONDITION	QUANTITY/COMMENTS
Not sampled	Corrugated transite panels - exterior		Outside the building on the east side on the lawn.	Good (70%) Fair (15%) Poor (15%)	<ul style="list-style-type: none"> Exterior total = 5 transite panels, most starting to deteriorate.
1-020 A,B,C	2 ft x 4 ft ceiling tile	No	Offices, bathrooms, hallways, and paneled office spaces on east side of building.	Good (30%) Fair (50%) Poor (20%)	<ul style="list-style-type: none"> Wet, deteriorated, loose, many on the floor in areas where the roof is missing. Total square footage of ceiling tile = 1,220 square ft. Approximately 20% shows water damage.
1-021 A,B,C	12 inch x 12 inch floor tile	No	Northeast corner office floor.	Fair (90%) Poor (10%)	<ul style="list-style-type: none"> Yellow and black alligator pattern. Some tiles cracked and loose. Total square footage estimated at 150 square ft. Other areas of the building floor covered with ceiling materials, scrap and various equipment. Total footage may be slightly greater.
1-022 A,B,C	Pipe elbows	No	Throughout the building.	Good (80%) Poor (20%)	<ul style="list-style-type: none"> Most damage along east and west building walls where the roof has collapsed into the structure. Assume a total of 65 pipe elbows, 20% which show damage. Friable and loose where damaged. Minor amounts of the materials on the floor (< 5 cubic ft).
1-023 A,B,C	Pipe insulation - w/insulation - w/o insulation	Yes	Throughout the building.	Good (80%) Poor (20%)	<ul style="list-style-type: none"> Majority of pipe insulation is undamaged and appears to be fiberglass in composition. Small amount on ground and beneath hot water heaters which may be ACM. 25 linear ft with suspect insulation. Minor volumes of materials on the floor (< 10 cubic ft).
1-024 A,B,C	Ceiling plaster with steel mesh backing	No	Offices, bathrooms, hallways, and paneled office spaces on east side of building.	Poor (100%) for fallen material. Fair (100%) for intact material.	<ul style="list-style-type: none"> Approximately 300 sq ft shows water damage and on the floor in poor condition. Approximately 200 sq ft intact. Most of this plaster is found along the east wall of the building. Approximately 25 cubic feet.
1-025 A,B,C	Roof flashing	No	Along east and west building walls where the roof has collapsed.	Good (60%) Fair (20%) Poor (20%)	<ul style="list-style-type: none"> Black bituminous roofing material totals 8,400 sq ft. Approximately 1,700 sq ft collapsed and lying on the floor, all in poor condition. Intact material in good and fair condition and represents 80% of total building area. Minor amounts of the materials on the floor (< 5 cubic ft).
1-026 A,B,C	Concrete roof panels	No	Throughout the building, collapsed on east and west walls.	Good (60%) Fair (20%) Poor (20%)	<ul style="list-style-type: none"> Tongue and groove concrete roof panel material. Totals 8,400 sq ft. Approximately 1,700 square ft collapsed and lying on the floor, all in poor condition. Intact material in good and fair condition and represents 80% of total building area. Approximately 150 - 250 cubic ft on the floor.

TABLE 3-7
BUILDING 30A
BULK ASBESTOS SAMPLING LOCATIONS AND RESULTS
SOMERSET GROUP PROPERTY
LOOW

SAMPLE ID	MATRIX	ACM	LOCATION	CONDITION	QUANTITY/COMMENTS
1-038 A,B,C	Pipe insulation	Yes	Throughout the building both on the floor and some on the pipes.	Poor (100%)	<ul style="list-style-type: none"> Approximately 100 linear ft of pipe insulation estimated to have been in this building of various sizes (2, 4, and 8 inch diameters). 80% is now on the floor, the remaining 20 ft is in fair to poor condition and is exposed to the elements where the roof has holes and is starting to collapse.
1-039 A,B,C	2 ft x 4 ft ceiling tile	No	Piled on scrap steel in center of building.	Good (90%) Fair (10%)	<ul style="list-style-type: none"> Approximately 160 sq ft is piled in the center of the building.
1-040 A,B,C	2 ft x 2 ft ceiling tile	No	Piled on scrap and on the golf game, some still in the box.	Good (90%) Fair (10%)	<ul style="list-style-type: none"> Approximately 70 sq ft of aluminized 2 ft x 2 ft ceiling tiles.
1-041 A,B,C	Joint compound	No	Bagged material in center of room.	Poor (100%)	<ul style="list-style-type: none"> One 25-lb. bag of Rubberoid joint compound still in the bag. Material is hard.
1-042 A,B,C	Asbestos mortor	Yes	Bagged material against south wall.	Poor (100%)	<ul style="list-style-type: none"> Corey-Canadian Mines Ltd. 7M-90 asbestos mortar powder, loose, friable. Bags are ripped open and spilling their contents on the floor. Five 50-lb. bags.
1-043 A,B,C	Cement	No	Bagged material against south wall.	Poor (100%)	<ul style="list-style-type: none"> Eagle Picher one coat cement, powder, bags open and spilling their contents onto the floor. Bags are mixed in with the asbestos mortar bags. Four 100-lb. bags.
1-044 A,B,C	Roof panels	No	Falling onto the ground mainly along the south wall.	Poor (100%)	<ul style="list-style-type: none"> Total of approximately 1,000 sq ft of roof panels, many damaged due to collapsed roof structure and exposure to moisture.
1-045 A,B,C	Pipe insulation elbow	No	Along floor beneath piping.	Poor (100%)	<ul style="list-style-type: none"> White, friable mag pipe elbows subject to weathering and damage due to collapsed roof structure and exposure to moisture.
1-046 A,B,C	Brown panel mastic	Yes	From the back of paneling stacked against the wall.	Good (100%)	<ul style="list-style-type: none"> 200 sq ft of paneling with mastic adhesive. Mastic is non-friable.
1-047 A,B,C	Steam line pipe insulation	Yes	From metal wrapped pipe insulation piled outside the building on the north side.	Poor (100%)	<ul style="list-style-type: none"> Large diameter (± 12 inch) steam line pipe insulation. Found in numerous debris piles across the site. Thin, aluminum exterior wrapping is damaged or missing along most sections. White, friable. Assume 100 - 200 linear feet. Several thousand feet found across the entire site.

TABLE 3.7 (Cont'd)
BUILDING 30A
BULK ASBESTOS SAMPLING LOCATIONS AND RESULTS
SOMERSET GROUP PROPERTY
LOOW

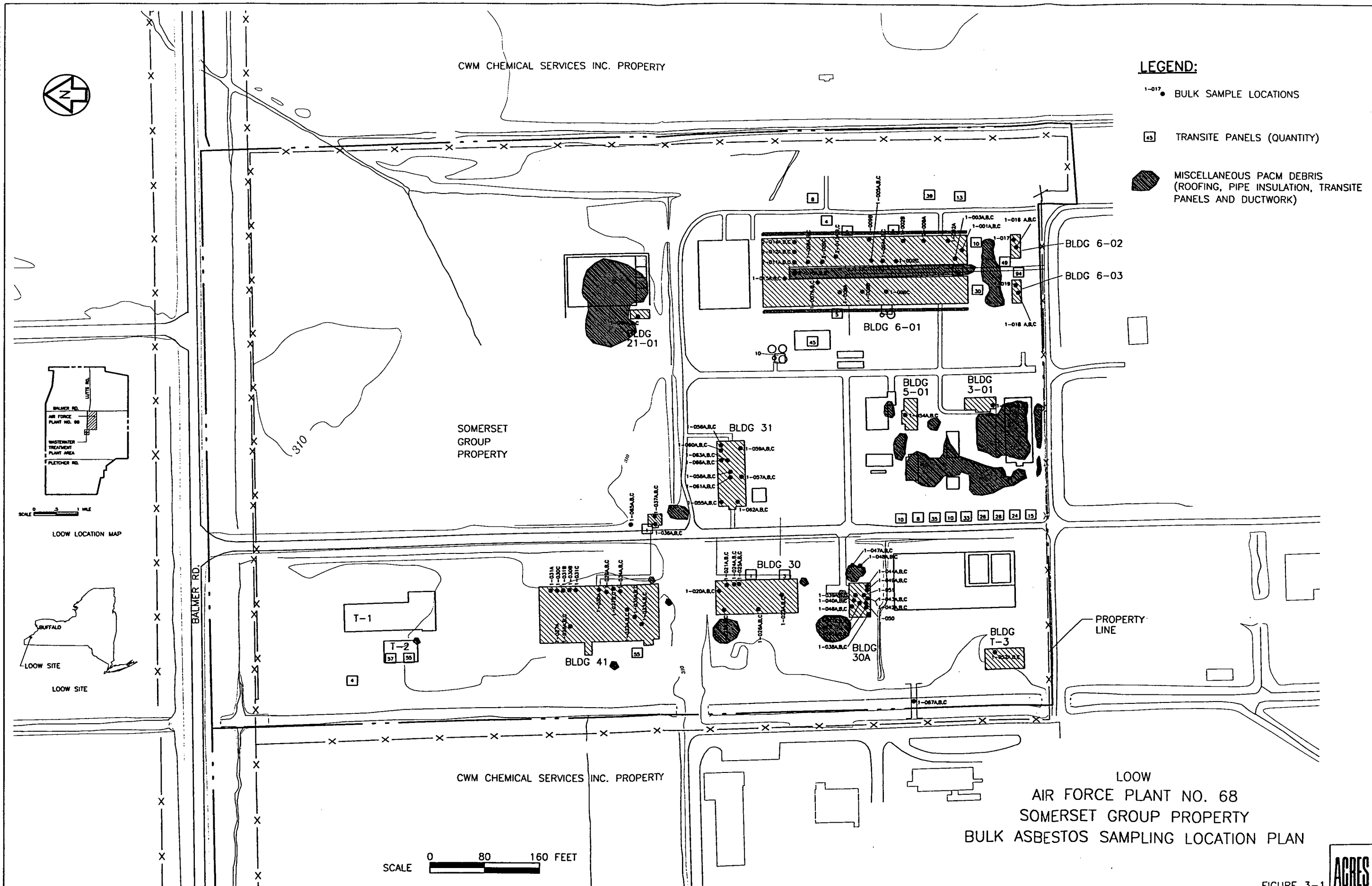
SAMPLE ID	MATRIX	ACM	LOCATION	CONDITION	QUANTITY/COMMENTS
1-048 A,B,C	Ductwork	Yes	From piled material outside the building on the east side.	Fair (90%) Poor (10%)	• Large diameter (± 12 inch) transite ductwork, non-friable, found in a pile north of Building 30A. Estimate 100 linear ft of ductwork outside Building 30A.
1-049 A,B,C	Window glazing	No	From the exterior of the south side windows.	Poor (100%)	• Brittle, hard, friable window glazing. Majority is falling off the windows onto the floor. Estimate 400 linear ft in Building 30A.
1-050	Wipe sample	Yes	Off floor, 4 ft north of south wall.	Not Applicable	• Wipe sample collected in the vicinity of several small piles of debris and spilled bagged materials close to the south building wall.
1-051	Wipe sample	No	South wall, 4 ft off the floor.	Not Applicable	• Wipe sample collected off the wall near potential asbestos-containing materials.

**TABLE 3-8
BUILDING 31
BULK ASBESTOS SAMPLING LOCATIONS AND RESULTS
SOMERSET GROUP PROPERTY
LOOW**

SAMPLE ID	MATRIX	ACM	LOCATION	CONDITION	QUANTITY/COMMENTS
1-055 A,B,C	Brown panel mastic	Yes	From the back of paneling northwest end of building.	Good (100%)	• 4,300 square ft of paneling with mastic adhesive. Mastic is hard, brittle, non-friable.
1-056 A,B,C	12 inch x 12 inch floor tile	No	Northeast office.	Fair (80%) Poor (20%)	• Yellow with black alligator pattern. Also found in Buildings 27 and 30. Subjected to moisture and temperature extremes due to the collapsed roof in this section of the building.
1-057 A,B,C	2 ft x 2 ft ceiling tile	No	North center of the building.	Fair (90%) Poor (10%)	• Approximately 400 sq ft of aluminized 2 ft x 2 ft ceiling tiles.
1-058 A,B,C	Ceiling plaster	No	East end hallway ceiling.	Fair (75%) Poor (25%)	• Material is covered by ceiling tiles in the majority of the building. Assume 6,000 square ft. White, brittle, friable. Subject to deterioration and in poor condition where exposed to the weather. Assume 25% has been damaged, remainder in fair condition.
1-059 A,B,C	2 ft x 4 ft ceiling tile	No	Found in the southeast office areas.	Fair (80%) Poor (20%)	• Approximately 1,500 sq ft with water damage evident in approximately 20% of the tiles. Tiles are white, fibrous, and friable.
1-060 A,B,C	Cove base	No	Northeast office.	Good (100%)	• Approximately 80 linear ft of black cove base with what appears to be the same brown mastic as found behind the paneling.
1-061 A,B,C	Pipe insulation elbow	Yes	In hallway.	Fair (80%) Poor (20%)	• White, friable mag pipe elbows subject to weathering and damage due to collapsed roof structure and exposure to moisture. Unknown quantity above ceiling tiles.
1-062 A,B,C	Duct wrap	No	In hallway.	Good (50%) Fair (50%)	• Black, tar-like, duct sealant. Estimate 600 sq ft found above the ceiling tile.
1-063 A,B,C	1 ft x 1 ft ceiling tile	No	On floor in northeast offices of building.	Fair (10%) Poor (90%)	• Approximately 400 sq ft of tile, most on the floor. The roof has collapsed in this portion of the building.
1-066 A,B,C	Ceiling plaster	No	Northeast corner office.	Poor (100%)	• Ceiling plaster from northeast corner office. Plaster has collapsed from the ceiling onto the floor. Sample collected off the floor.

TABLE 3-9
BUILDING 41
BULK ASBESTOS SAMPLING LOCATIONS AND RESULTS
SOMERSET GROUP PROPERTY
LOOW

SAMPLE ID	MATRIX	ACM	LOCATION	CONDITION	QUANTITY/COMMENTS
Not sampled	Transite panels - exterior	No	Outside the building in a pile along the west wall.	Good (80%) Fair (10%) Poor (10%)	<ul style="list-style-type: none"> Exterior total = 55 transite panels most starting to deteriorate due to exposure to the weather.
1-027 A,B,C	Pipe insulation - w/insulation - w/o insulation	No	Throughout the building.	Good (80%)- 800 ft Poor (20%)- 200 ft	<ul style="list-style-type: none"> Wet, deteriorated, loose, mostly on the floor on the east side of the building where the roof has collapsed (100%) in poor condition. Total piping insulation estimated at 900 ft, most on 2-inch water line. About 200 linear ft on floor along east side of building (volume = 15 cubic ft) which represents approximately 20% of the total linear footage.
1-028 A,B,C	Pipe elbows	No	Throughout the building.	Good (80%)- 100 fittings Poor (20%)- 20 fittings	<ul style="list-style-type: none"> Wet, deteriorated, loose, mostly on the floor on the east side of the building where the roof has collapsed (100%) in poor condition. Total number of pipe elbows estimated to be about 120, most on 2-inch water line. About 20 lying on floor along east side of building (volume < 5 cubic ft) which represents approximately 20% of the total volume. Friable.
1-029 A,B,C	Ceiling plaster	No	In the east side of the building in the offices, boiler room, bathrooms, and storage areas.	Fair (80%)- Intact Poor (20%)- on floor	<ul style="list-style-type: none"> Plaster ceiling with expanded metal backing. Wet, deteriorated, loose, on the floor along the east side of the building where the roof has collapsed (100%) in poor condition. 240 sq ft in mech. storage area intact, 300 sq ft in bathrooms in poor condition, 600 sq ft on floor in boiler room and 200 sq ft intact in poor condition, 1,000 sq ft on floor east side of building and 500 sq ft is intact in poor condition, 150 sq ft in the stock room intact, 10 sq ft in entrance to the boiler room in poor condition.
1-030 A,B,C	Tongue and groove concrete roof panels	No	Throughout the building, collapsed mainly along the east side of the building.	Fair (95%) Poor (5%)- 1000 sq ft	<ul style="list-style-type: none"> Approximately 20,000 sq ft roof area remains intact (95%). 1,000 sq ft has collapsed (5% of total area) and is lying on the floor on the east side of the building. Entire roof is in fair to poor condition and additional collapse should be expected.
1-031 A,B,C	Roof flashing	No	East side of building where the roof has collapsed.	Fair (90%) Poor (10%)- 100 linear ft	<ul style="list-style-type: none"> Approximately 650 linear ft of roof flashing with approximately 100 linear ft (5 cubic ft) collapsed along the east side of the building. Entire roof is in fair to poor condition and additional collapse should be expected.
1-032 A,B,C	Duct wrap	Yes	Mainly above the boiler room plaster ceiling.	Good (60%) Fair (20%) Poor (20%)	<ul style="list-style-type: none"> Total quantity unknown, assumed to be approximately 400 sq ft. Wrap is generally intact but is starting to show signs of age. Can be expected to deteriorate as moisture affects the strength of the material.
1-033 A,B,C	9 inch x 9 inch floor tile	Yes	Storage area adjacent to bathroom.	Good (100%)	<ul style="list-style-type: none"> Small area of the floor outside the bathroom. Generally in good condition.
1-034 A,B,C	Tank insulation	No	Small tank on floor in east side of building beneath area of roof collapse.	Poor (100%)	<ul style="list-style-type: none"> White, fibrous thermal system insulation on small pressure vessel. Approximately 15 sq ft (<5 cubic ft) of material. All insulation in poor condition due to exposure.
1-035 A,B,C	Make-up water tank insulation	Yes	Ceiling of boiler room.	Fair (80%) Poor (20%)	<ul style="list-style-type: none"> Tank is approximately 300 gallons in size (10' x 3'). Material is friable, loose, and wrap is starting to deteriorate.



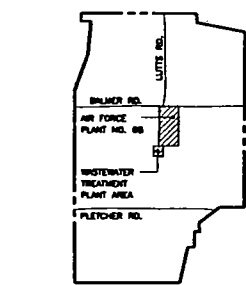


LEGEND:

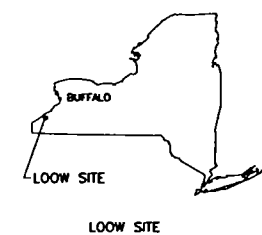
- S-100 SURFACE SOIL SAMPLE
- S-181 SURFACE/SUBSURFACE SOIL SAMPLE
- ASBESTOS DETECTED <1%
- ASBESTOS DETECTED >1%

NOTE:

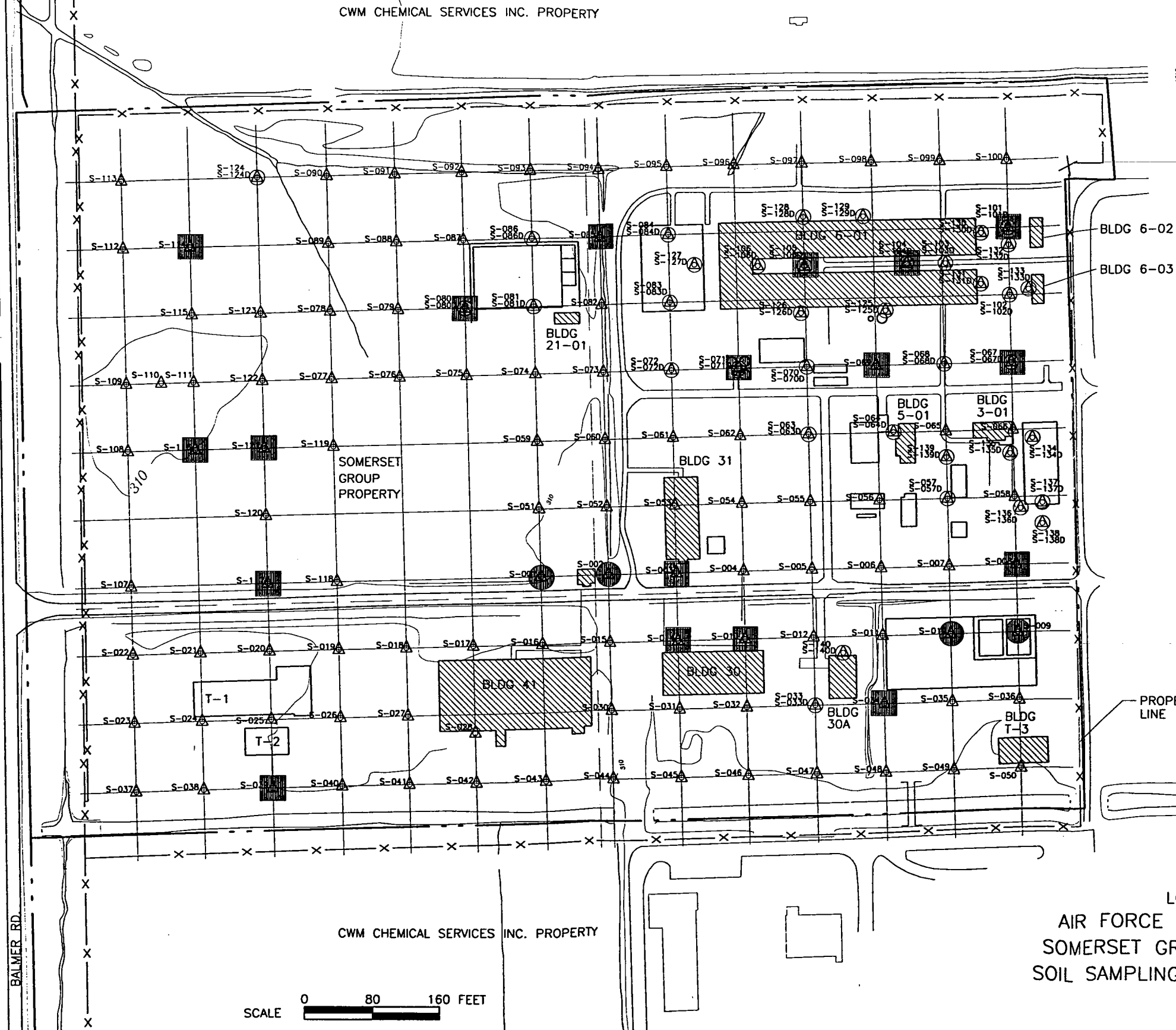
1. S-029 NOT SAMPLED
2. ACM WERE NOT DETECTED IN ANY SUBSURFACE SOIL SAMPLE



SCALE 0 1 MILE
LOOW LOCATION MAP



LOOW SITE



LOOW
AIR FORCE PLANT NO. 68
SOMERSET GROUP PROPERTY
SOIL SAMPLING LOCATION PLAN

SCALE 0 80 160 FEET



4 Lead Paint Sampling and Analyses

Acres personnel performed an investigation of the presence of lead-based paint (LBP) on the Somerset Group property on November 24 and 25, 1997. The investigation focused on the inspection and sampling of painted surfaces on existing buildings present on the Somerset Group property. The purpose of the investigation was to identify the presence and concentrations of LBP in and around site buildings, with particular attention focused on identifying where loose paint may be included in materials scheduled for asbestos remediation. As part of the investigation, representative samples of loose and peeling paint were collected from locations throughout the site for laboratory analyses (see Figure 4-1). Lead analyses were performed by Chopra-Lee, Inc. using flame atomic absorption following ASTM Method D3335A.

The evaluation of LBP contamination at the Somerset Group property is based on the results of laboratory analyses of paint samples combined with visual observations of the weathered and peeling condition of the painted surfaces to provide a basis for a preliminary determination of the amount of LBP present in waste materials that would be removed as part of the asbestos removal action. According to the Lead-Based Paint Poisoning Prevention Act of 1992 (40 CFR 745), LBP is defined as paint having at least 0.5 wt.% lead content. Analytical results of the LBP analyses are presented in Table 4-1. As indicated in this table, only 13 out of 51 samples were determined to be LBP. The following subsections identify the areas sampled and provide a description of the condition of the painted surfaces.

4.1 Area 3 - Hydrogenation

Three paint samples were collected from Building 3-01 (see Table 4-1). Sample L-019 was a light blue paint found on the interior masonry walls and had a lead content of 0.0858 wt.%. Sample L-020 was a light yellow paint found on the exterior building walls and had a lead content of 0.187 wt.%. In general, masonry walls displayed limited to moderate peeling. Sample L-021 was white paint found on the interior ceiling and structural ceiling members and had a lead content of 0.324 wt.%. Due to weathering and age, the steel beams inside this building displayed moderate to severe peeling.

4.2 Area 5 - Salt Purification

Three samples were collected from Building 5-01. Sample L-022 was olive-green paint from the interior of the entrance door and had a lead concentration of 0.182 wt.%. Sample L-023 was an off-white paint from an interior fluorescent lamp with a lead content of 0.0854 wt.%. Sample L-024 was a peach paint from the exterior masonry walls and had a lead content of 0.00685 wt.%. Each of these painted surface displayed only minor peeling.

4.3 Area 6 - Salt Electrolysis

4.3.1 Building 6-01

A total of 15 samples, identified as L-001 through L-015, were collected from the Building 6-01 structure. Painted surfaces within the building included a light blue-grey paint on structural steel members, interior and exterior stairways, stairway railings, and steel pipework; light green paint used on the interior of building entrance doors and some masonry walls; light grey paint used on some interior window frames and a metal hopper located on the second level; yellow paint present on scaffolding located on the first level; red paint used on roof flashing; and white paint used on some of the walls and ceilings of interior office spaces and diamond-pattern steel flooring.

In general, due to the age and open condition of the structure, many of the painted surfaces are peeling. Moderate to extreme peeling was evident on all stairways; structural steel, especially near exterior walls; and in interior office spaces.

Analytical results indicate that lead concentrations ranged from 0.00758 to 11.6 wt.%. The highest concentration of lead, at 11.6 wt.%, was found in the yellow paint on the scaffolding present in the southern end of the lower level. However, it appears that, primarily due to past use and partially due to weathering, very little paint remains on the scaffolding. The next highest concentration of lead was at 3.80 wt.% in the paint on the steel hopper located on the west side of the second level. The paint on this hopper is generally in good condition, with some minor peeling. All remaining samples were below 0.170 wt.% lead.

4.3.2 Buildings 6-02 and 6-03

These two buildings are located south of Building 6-01. Sample L-016 was light green paint collected from the exterior door frame of Building 6-02, and Samples L-017 and L-018 were light blue-grey paint samples collected from the interior and exterior stairways of Buildings 6-02 and 6-03, respectively.

The sample from the door frame on Building 6-02 contained lead at a concentration of 0.313 wt.%. The interior stairway of Building 6-02 had a lead concentration of 0.0233 wt.%, and the exterior stairway on Building 6-03 had a lead concentration of 0.0330 wt.%. The door frame exhibited moderate peeling while the stairways showed extreme peeling.

4.4 Area 21 - Electrical Substation

Two samples were collected from the interior of Building 22-01. Sample L-044 was light green paint on the masonry wall and had a lead content of 0.412 wt.%. Sample L-045 was a beige paint on the ceiling and steel support structure and had a lead content of 0.596 wt.%. Both surfaces displayed minor peeling.

4.5 Area 27 - Guard House

Sample L-039 was collected from the yellow masonry wall inside the former guard house and had a lead content of 0.00528 wt.%. Sample L-040 was black paint collected from the window from inside the guard house and had a lead content of 0.943 wt.%. Both sample locations displayed moderate peeling.

4.6 Area 30 - Non-Combustibles Warehouse

Five samples were collected from this building. Sample L-025 was a brown paint from the exterior masonry walls with a lead content of 0.00752 wt.%. Sample L-026 was a green paint from an interior masonry wall and had a lead content of 0.00669 wt.%. Sample L-027 was a grey paint sample from the lavatory partition wall and had a lead content of 0.0111 wt.%. Sample L-028 was a peach paint from the office masonry wall with a lead content of <0.00492 wt.%. Sample L-029 was a yellow paint from the loading dock area and had the highest lead content associated with the building at 6.81 wt.%. The paint on the loading dock area was moderately weathered and peeling. The remaining painted surfaces displayed minor to moderate peeling.

4.7 Area 30A - Combustibles Warehouse

Three samples were collected from the combustibles warehouse building. Sample L-041 was yellow paint collected from exterior of the entrance door and had a lead content of 3.86 wt.%. Sample L-042 was collected from the light green paint on the masonry wall and had a lead content of 0.216 wt.%. Sample L-043 was a grey paint collected from the interior entrance door frame and had a lead content of 0.295 wt.%. The exterior door surface had moderate peeling while the interior surfaces had only minor peeling.

4.8 Area 31 - Laboratory

Six samples, L-046 through L-051, were collected from the former laboratory. Sample L-046 was grey paint collected from the east side exterior door and had a lead content of 2.19 wt.%. Sample L-047 was collected from the grey paint on the exterior masonry wall and had a lead content of 0.00558 wt.%. Sample L-048 was white paint collected from the interior ceiling and had a lead content of 0.0531 wt.%. The highest lead content in the building was from Sample L-049 collected from a beige interior door which had a lead content of 4.18 wt.%. Sample L-050 was collected from the light tan masonry wall in the equipment room and had a lead content of 0.013 wt.%. The last sample, L-051, was collected from the black painted window and radiator in the office and had a lead content of 0.392 wt.%. All painted surfaces displayed minor to moderate peeling.

4.9 Area 41 - Maintenance Garage

A total of nine samples were collected from the interior of Building 41. Painted surfaces sampled included the inside of garage and man-doors, an electrical service panel, a boiler, plaster ceiling, steel support beams, and masonry walls. Lead concentrations ranged from a high of 7.81 wt.% in Sample L-038 in the red paint on the electrical service panel to the lowest concentration of 0.00832 wt.% in Sample L-034 of the white paint on the plaster ceiling. The boiler (sample L-031) and nearby man-door (Sample L-032) were painted with green paint and had lead concentrations of 1.29 and 1.28 wt.%, respectively. The boiler displayed extreme peeling, while the door had minor peeling. Black paint on some interior door jams and structural steel beams (Sample L-035) had a lead content of 1.12 wt.% and displayed minor-to-moderate peeling. Grey paint on the west side garage door (Sample L-036) and man-door (Sample L-037), had lead concentrations of 4.46 and 1.27 wt.%, respectively. Lead concentrations in the two remaining samples were 0.595 wt.% in Sample L-030 for the interior side of the garage door on the southern side of the building and 0.0140 wt.% in Sample L-033 from the masonry wall in the lavatory. These sample locations displayed slight to moderate peeling.

4.10 Evaluation of Lead Analyses Results and Site Conditions

The concern associated with the presence of LBP in materials scheduled for inclusion in the asbestos removal action is the possible presence of lead at concentrations which may result in the waste qualifying as a RCRA hazardous waste due to the lead concentrations exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits.

The TCLP limit for lead is 5 ppm. A very simplified and approximate method of determining if a material might exceed this value is to divide the standard analytical results by 20. If the resultant value exceeds 5 ppm, then the material may qualify as a RCRA characteristic waste. This

assumes that the entire mass weight of lead present in the paint will leach out during a TCLP test. Utilizing this methodology, paint samples exceeding 100 ppm (or 0.01 wt.%) may qualify as RCRA characteristic wastes.

A total of 42 of the 51 paint samples collected for lead analyses were determined to exceed 0.01 wt.%. However, the amount of paint that has peeled and fallen off the surfaces is believed to be so low in volume in comparison to the amount of material that would be removed during the asbestos removal action that the resulting mixture of waste material should not be considered a RCRA characteristic waste based on lead content.

The analytical results for the lead analyses indicate that for the areas scheduled for asbestos removal during the IRM, LBPs, as defined by 40 CFR 745 (i.e., >0.5 wt.% lead), are only present in the paint in the yellow paint on the scaffolding in Building 6-01 (11.6 wt.%), in the light blue paint on the metal hopper located on the second level of Building 6-01 (3.80 wt.%), in the yellow paint on the exterior side of the entrance door of Building 30A (3.86 wt.%), and in the black paint on the interior trim in Building 27 (0.943 wt.%).

TABLE 4-1
PAINT SAMPLE LOCATIONS AND LEAD RESULTS
SOMERSET GROUP PROPERTY
LOOW

AREA/BUILDING	SAMPLE ID	LOCATION	COLOR	% LEAD (by wt)	CONDITION
Building 6-01 - Salt Electrolysis	L-001	Steel Beam	Lt. Blue Gray	0.00896	Poor condition, flaking, 20% missing
	L-002	Exterior Stairway Railing	Lt. Blue Gray	0.0187	Poor condition, flaking, 40% missing
	L-003	Interior Door and Frame	Lt. Green	0.0351	Poor condition, flaking, 30% missing
	L-004	Corrugated Roof Deck	White	0.0324	Poor condition, 2nd floor offices, 25% missing
	L-005	Interior Building Beam	Lt. Blue Gray	0.0144	Poor condition, 2nd floor, 15% missing
	L-006	Corrugated Roof Deck	White	0.0191	Poor condition, 2nd floor, 25% missing
	L-007	Interior Window Trim	Lt. Gray	0.170	Fair condition, 2nd floor, 15% missing
	L-008	Metal Deck Flooring	White	0.0936	Poor condition, 2nd floor, 50% missing
	L-009	Water Line	Dk. Gray	0.0142	Fair condition, 2nd floor, 10% missing
	L-010	Interior Stairway Railing	Lt. Blue Gray	0.0342	Poor condition, flaking, 30% missing
	L-011	24" Process Piping	Dk. Gray	0.117	Fair condition, 10% missing
	L-012	Scaffolding	Yellow	11.6	Poor condition, very rusty, 60% missing
	L-013	Metal Flashing	Red	0.00758	Fair condition, 10% missing
	L-014	Exterior Stairway Railing	Lt. Blue Gray	0.0368	Poor condition, flaking, 40% missing
	L-015	Hopper	Lt. Gray	3.80	Fair condition, 2nd floor, 15% missing
Building 6-02 - Salt Electrolysis	L-016	Exterior Door & Frame	Lt. Green	0.313	Poor condition, rusty, 40% missing
	L-017	Interior Stairway Railing	Lt. Blue Gray	0.0233	Poor condition, rusty, 40% missing
Building 6-03 - Salt Electrolysis	L-018	Exterior Stairway Railing	Lt. Blue Gray	0.0330	Poor condition, rusty, 60% missing
Building 3-01 - Hydrogenation Unit	L-019	Interior Wall Paint	Blue	0.0858	Good to fair condition, < 5% missing
	L-020	Exterior Wall Paint	Yellow	0.0187	Poor condition, flaking, 15% missing
	L-021	Interior Ceiling Beams	White	0.324	Fair condition, flaking, 10% missing
Building 5-01 - Salt Purification	L-022	Exterior Door and	Olive Green	0.182	Poor condition, flaking, 30% missing
	L-023	Frame	White	0.0854	Fair condition, flaking, 10% missing
	L-024	Interior Light Fixture Exterior Wall Paint	Peach	0.00685	Good condition, < 5% missing

TABLE 4-1 (Cont'd)
PAINT SAMPLE LOCATIONS AND LEAD RESULTS
SOMERSET GROUP PROPERTY
LOOW

AREA/BUILDING	SAMPLE ID	LOCATION	COLOR	% LEAD (by wt)	CONDITION
Building 30 - Non-Combustibles Warehouse	L-025	Exterior Wall Paint	Brown	0.00752	Fair condition, flaking, 15% missing
	L-026	Interior Wall Paint	Lt. Green	0.00669	Good condition, < 5% missing
	L-027	Bathroom Wall Partition	Gray	0.0111	Poor condition, flaking, 35% missing
	L-028	Interior Wall Paint	Peach	<0.00492	Good condition, office area, < 5% missing
	L-029	Loading Dock Paint	Yellow	6.81	Fair condition, flaking, 10 % missing
Building 41 - Maintenance Shop	L-030	Interior Garage Door	White	0.595	Poor condition, flaking, 30% missing
	L-031	Boiler Paint	Green	1.29	Poor condition, flaking, 20% missing
	L-032	Interior Door	Dk. Green	1.28	Poor condition, flaking, 30% missing
	L-033	Interior Wall Paint	Peach	0.0140	Poor condition, flaking, 25% missing
	L-034	Interior Plaster Ceiling	White	0.00832	Good to poor depending on area
	L-035	Paint	Black	1.12	Poor condition, flaking, 30% missing
	L-036	Interior Door/Trim/Beam	Gray	4.46	Poor condition, flaking, 20% missing
	L-037	Interior Garage Door	Dk. Gray-Blue	1.27	Poor condition, flaking, 25% missing
Building 27 - Guard House	L-038	Interior Door	Red	7.81	Poor condition, flaking, 35% missing
		Electrical Box			
Building 30A - Combustibles Warehouse	L-039	Interior Wall Paint	Yellow	0.00528	Poor condition, flaking, 30% missing
	L-040	Interior Wall/Trim Paint	Black	0.943	Poor condition, flaking, 15% missing
Building 30A - Combustibles Warehouse	L-041	Exterior Door and	Yellow	3.86	Poor condition, flaking, 40% missing
	L-042	Frame	Lt. Green	0.216	Good to fair condition, < 5% missing
	L-043	Interior Wall Paint	Dk. Gray-Blue	0.295	Poor condition, flaking, 25% missing
Area 21 - Electrical Substation	L-044	Interior Wall/Trim Paint	Lt. Green	0.412	Fair condition, flaking, 5% missing
	L-045	Interior Door and Frame	Lt. Yellow	0.0596	Fair condition, flaking, 5% missing
Area 31 - Laboratory	L-046	Exterior Door and	Dk. Gray	2.19	Poor condition, flaking, 20% missing
	L-047	Frame	Dk. Gray	0.00558	Poor condition, flaking, 15% missing
	L-048	Exterior Wall Paint	White	0.0531	Poor condition, flaking, 10% missing
	L-049	Interior Plaster Ceiling	Lt. Yellow	4.18	Poor condition, flaking, 15% missing
	L-050	Interior Door and Frame	Lt. Tan	0.0137	Poor condition, flaking, 20% missing
	L-051	Interior Wall Paint	Black	0.392	Poor condition, flaking, 20% missing

5 Recommendations

The planned interim remedial measure (IRM), which will address the ACMs present on the Somerset Group property, is being administered under DERP. One of the conditions under DERP is the exclusion of remedial actions on buildings/structures which are put to beneficial use by the property owner. As such, Buildings 30, 31 and 41 will not be included as part of the asbestos interim remedial action because they are currently utilized by the present property owner. Subsequently, the following sections identify recommendations for the removal of loose ACM found throughout the Somerset Group property, exclusive of Buildings 30, 31 and 41.

As a result of the decommissioning activities of former AFP-68, various portions of the site contain building and demolition (B&D) debris and scrap steel haphazardly spread across the ground surface. ACMs are present amongst the building debris, making the selective removal of only ACMs impractical. Consequently, the remediation of areas containing ACMs mixed in with demolition debris is recommended to include the entire quantity of both ACM and B&D debris, where appropriate. Similarly, due to the extensive presence of ACMs spread on the ground surface, the remediation of site soils is recommended to include the removal of the upper 6 inches of soils throughout the area where ACMs have been identified in the surface soils. Also, in some buildings (e.g., Buildings 6-01 and 30A), the deteriorated condition of the structures has resulted in the weathering and dispersement of ACMs on equipment and miscellaneous materials present within the structures. It is recommended that these ACM-contaminated materials, which have little if any functional value, be disposed of as part of the removal action. It is also recommended that these materials be decontaminated, where appropriate, in order to reduce both the volume and cost of materials to be disposed of as ACM waste.

The following subsections present a description of the recommended ACM removal action for each area/building on the Somerset Group property. Appendix C presents more detailed estimates of the level of effort for the ACM removal action for each area. These estimates factor in level of effort multipliers, which were included due to the presence of process area foundations, overhead pipe support footers, and tank farm structures, the presence of which would limit equipment access to some areas.

5.1 Areas 3-10 and 5-01

No ACMs were detected within Buildings 3-01 and 5-01, and therefore no recommendations for these buildings are provided.

Inspection in the area in the vicinity of Buildings 3-01 and 5-01 indicated that the soils to the west and south are contaminated by friable asbestos and by non-friable transite debris. The contamination is evident in this area by observations of transite building panels strewn about the

process area west of Building 3-01 and in piles north of Building 3-01, and by pipe with attached TSI in the tank farm area, in the area between Buildings 3-01 and 5-01, and the areas to the west of Building 5-01. Therefore, it is recommended that the soils surrounding these two buildings be removed to a depth of 6 inches in an area bounded on all four sides by access roads and delineated as Area C in Figure 5-1. It is noted that the asbestos removal action would require the removal of several large pieces of concrete and steel as well as miscellaneous construction demolition debris. Although the removal of these materials will add significantly to the labor effort, it is believed necessary to adequately complete the IRM.

5.2 Area 6

5.2.1 Building 6-01

Building 6-01 presents the largest area on the Somerset Group property requiring abatement. This building not only contains the largest amount of ACM but also has the largest amounts of non-asbestos debris within the building itself which has become contaminated with asbestos.

Building 6-01 has been partially demolished, which has allowed TSI to deteriorate within the structure and contaminate debris/equipment that has been stored within the building. The condition of the building itself allows some latitude with respect to abatement methods since the building is presently open to the outside environment. Due to the existing condition of the building, full containment protocols will probably not be necessary, and an "open-air" variance to NYS Industrial Code Rule 56 (ICR 56) should be able to be obtained to allow the contractor to forego full containment within the building.

The recommended abatement method will be comprised of four steps. Step 1 involves removal of all loose, friable, and non-friable materials. This would include any remaining pieces of the following:

- All pipe TSI - all pipe insulation present within Building 6-01 is considered as loose due to the degree of weathering; and
- Loose and hanging transite panels and caulk sealants;
- Loose and brittle bituminous expansion joints; and
- Loose roof flashing.

In Step 2, all equipment and non-asbestos debris within the building must be removed from the building, decontaminated, and placed in a lay down area where it will not be susceptible to being recontaminated. This would include all machinery, loose piping, miscellaneous building materials, window frames, etc.

In Step 3, any remaining loose, friable, and non-friable asbestos materials which are lying on the floor or are not attached to any substrate should be collected. This would include contaminated soils, leaves and/or gravel, etc. present within the building and/or courtyard.

Finally, during Step 4, the lower one-third of the building interior including steel structure, walls, and floors would be HEPA vacuumed, wet wiped, or pressure washed to decontaminate the building.

It is assumed that all piping would be removed from the building and disposed of as asbestos-contaminated waste. Also, in order to reduce disposal costs, it is assumed that all miscellaneous equipment, scrap metal, and other large items would be decontaminated, wherever possible, and disposed of as nonasbestos-contaminated construction and demolition materials.

Note: Per ICR 56, Section 56-1.4(ad), the conditions within Building 6-01 and some other areas may be considered an emergency situation in that the condition of the asbestos material within the building poses "an imminent danger to the health and safety of the public" and can be abated according to modified protocols set forth in Section 56-1.7.

5.2.2 Buildings 6-02 and 6-03

Buildings 6-02 and 6-03 generally remain intact and in good condition, in that the roof and building walls are intact and building entrance doors remain in place. The interior of the buildings have been completely removed of all piping and equipment with only the pipe TSI remaining on the building floor. The relatively good condition of the buildings lend themselves to abatement using full-containment protocols as set forth in ICR 56.

Abatement of these buildings would involve erection of full containment involving placing critical barriers at the building entrances, and the installation of waste decontamination units and negative pressure ventilation systems. Subsequent abatement will involve removal of all friable pipe TSI material within the buildings. The building interiors would then be HEPA vacuumed and wet wiped to decontaminate the buildings prior to clearance samples being taken.

5.2.3 Vicinity of Buildings 6-01, 6-02, and 6-03

The area in the vicinity of Building 6-01 has the largest amount of asbestos contamination as determined by visual observations. The greater portion of this contamination was caused by broken transite building panels as they were removed from the sides of the building and lowered or dropped to the ground below. Sampling in this area shows that the soils immediately adjacent to Building 6-01 on the east, west, and south sides has also been contaminated by friable asbestos. Therefore, it is recommended that the grounds on the east, west, and south sides of Building 6-01 be decontaminated by removing ACM debris from the soils surface in an area from the building face to a line approximately 30 ft from the building face on the east and west sides.

Based on the results of visual observations and soil analyses, soils also appear to be contaminated by friable asbestos from pipe TSI and transite panels on the south side of Building 6-01 and north of Buildings 6-02 and 6-03. Soil sample analysis also shows that the courtyard area between the east and west wings of Building 6-01 is contaminated with friable asbestos. It is recommended that a 6-inch-deep layer of soil be removed in the courtyard area as well as the area between Building 6-01 and Buildings 6-02 and 6-03 as indicated as Area A in Figure 5-1.

Soil analyses of samples collected along the access road west of Building 6-01 indicates the presence of asbestos. Also, visual observations appear to indicate that steam distribution piping existed in this area at one time. Soil removal in this area is recommended to a depth of 6 inches in an area indicated as Area B in Figure 5-1. This impacted area extends along the access road measuring 75 ft from the center of the access road. Concrete pads and tank structures in this area should remain in place throughout the removal. Pipe clean-outs, valves, and pipe terminations should also be left in place. The remains of concrete pads which once served as supports for the pipe support structure, may have to be removed with the soil.

5.3 Area 18N - Tank Farm

Area 18N had previously functioned as an above ground storage tank farm. Information from the present property owner indicates that the large amount of piping which formerly existed in this area had been removed from this area when the plant was decommissioned. Prior to the removal of this piping, the owner has indicated that the pipe TSI was removed from the piping and left on the ground surface. Since the time the area was decommissioned, soil, leaves, and vegetation have been deposited in the area, thereby burying the pipe insulation. Asbestos sampling in this area indicated the presence of asbestos in the soils at Sampling Locations S-009 and S-010, with Chrysotile concentrations at 3 and 2 percent, respectively.

For a proper asbestos abatement to take place in this area, the soil in this area should be removed to a depth of 6 inches to the limits shown as Area E in Figure 5-1. Total or at least partial removal of the concrete structures in this area may need to be removed to grade level to facilitate this removal action. It is noted that the area within the tank farms have a soil/gravel base.

5.4 Building 21-01 and Vicinity

Building 21-01 was found to contain no ACM, and therefore no remedial actions are recommended for this building.

Area 21 was found to contain large amounts of piping debris which is still wrapped with TSI. This debris is stockpiled on the east and north sides of the building in this area. Soil samples in this area show no deep soil contamination; however, by visual inspection, it appears that the surface of the soil in this area is contaminated with friable asbestos from discarded pipe TSI.

It is recommended that the discarded piping and pipe TSI in this area be removed from the area and disposed of appropriately, and the surface layer of soil be removed to a 6-inch depth in the area immediately north and east of the building in this area, as indicated as Area F in Figure 5-1.

Concrete pads, concrete platforms, existing barrier fencing, and electrical conveyances in this area should remain in place throughout the removal. Any disconnected piping remaining in this area should be removed off site.

5.5 Building 27

The only ACM in this building were two boxes of floor tiles labeled as "asbestos floor tiles" stored in the shelving at the front of the building. These two boxes may be removed from the building and disposed of with the rest of the asbestos waste.

5.6 Building 30

Building 30 is currently being put to beneficial use by the property owner as a warehouse and, therefore, is not included in the planned IRM. However, visual observations of the soils in the vicinity of Building 30 indicated the presence of broken transite panels. It is recommended that these materials be manually collected and disposed.

5.7 Building 30A

Building 30A is presently in relatively poor condition in that partial deterioration of the building's roof along the south side of the building has occurred resulting in the subsequent deterioration of ACM within the building. The building sidewalls and windows presently remain intact. The fact that the building is generally intact will most likely permit abatement using full-containment protocols, as set forth in ICR 56.

Abatement of this building would involve construction of the appropriate containment which would likely involve placing critical barriers at the building entrances, over the building windows, and any roof breaches followed by the installation of a waste decontamination unit. The present condition of this building may also lend itself to abatement using an "open air" variance to ICR 56. Subsequent abatement would involve the removal of all equipment and non-asbestos debris stored within the building. This material must be removed from the building, decontaminated, and placed in a lay down area where it will not be susceptible to being recontaminated.

After all stored material has been removed from the building, all friable and non-friable ACM within the building including the following can be removed from the building:

- All pipe TSI;
- Broken bags of asbestos mortar mix; and
- All loose wood paneling with asbestos mastic attached.

The building interior would then be HEPA vacuumed and wet wiped to decontaminate the building.

All stored equipment and nonasbestos-containing items previously stored within the building would be decontaminated and disposed of as nonasbestos-contaminated waste.

5.8 Building 31

Building 31 is presently used as an office by the current property owner and, therefore, would not be included in the IRM.

However, soil sampling in the area in the vicinity of Building 31 shows that the soils to the east of the main access road are contaminated with friable asbestos. The contamination is evident in this area by observations of discarded roofing material and pipe TSI in the area north of Building 31. Therefore, it is recommended that the soils surrounding this building be removed to a depth of 6 inches in an area bounded on the west by the main access road and extending east approximately 50 ft from the road centerline delineated as Area D in Figure 5-1.

5.9 Building 41

Building 41 is currently being used by the property owner as a maintenance garage and is, therefore, not included in this IRM.

5.10 Temporary Buildings T-1 and T-2

Areas T-1 and T-2 at the northern portion of the Somerset property have been used as a storage area for transite building panels and some miscellaneous steelwork and other building materials. Since this area is not adjacent to any structure, removal of ACM can be performed as follows:

- All ACM, including all types of transite building panels and any miscellaneous ACM, would be removed from the site and disposed of appropriately.
- All steelwork, equipment and non-asbestos debris stored in this area should be removed from the area, decontaminated, and placed in a lay down area where it will not be in danger of being recontaminated.
- After all ACM and non-ACM has been removed from the area, the concrete pad should be HEPA vacuumed and rinsed with water. The soils in this area should then be removed to a depth of 6 inches to the extent shown in Figure 5-1.

All stored equipment and nonasbestos-containing items previously stored in the area would then be returned to the area after the area has been cleaned and visually inspected by the appropriate personnel. No clearance samples would likely be necessary to achieve clearance in this area.

5.11 Temporary Building T-3

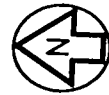
Building T-3 was found to contain no ACM, and therefore no recommendations are provided. Removal of contaminated soils in the vicinity of Building T-3 was addressed along with Area 18 North above.

5.12 Pipe Bridge


The pipe bridge spans the drainage ditch on the western side of the Somerset property. It is recommended that this pipe TSI be abated using the glove-bag method conforming to ICR 56 protocols. The pipe along the entire length of the bridge should be abated. Also, a small section

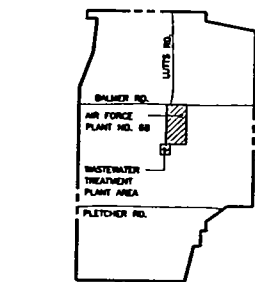
of soils at the west side of the bridge, where the pipe terminates underground, should be removed to a depth of 6 inches below grade.

The above recommendations are summarized along with a level of effort estimate for each area in Appendix C.



LEGEND:

 AREA OF SOIL EXCAVATION



SCALE 0 1 MILE

LOOW LOCATION MAP



LOOW SITE

BALMER RD.

CWM CHEMICAL SERVICES INC. PROPERTY

SOMERSET GROUP PROPERTY

CWM CHEMICAL SERVICES INC. PROPERTY

BLDG 6-02

BLDG 6-03

BLDG 6-01

BLDG 31

BLDG 30

BLDG 41

BLDG 30A

T-1

T-2

PROPERTY LINE

SCALE 0 80 160 FEET

LOOW
AIR FORCE PLANT NO. 68
SOMERSET GROUP PROPERTY
EXTENT OF RECOMMENDED SOILS EXCAVATION

Appendix A

Site Photographs



Photo 1 - Building 6-01 - East wing, southern area. Material identified as Johns Manville HYFLO Super-Cel mortar stacked against west wall (approximately thirty-two 50 lb. bags) (Sample No. 1-001). Sample found not to contain asbestos.

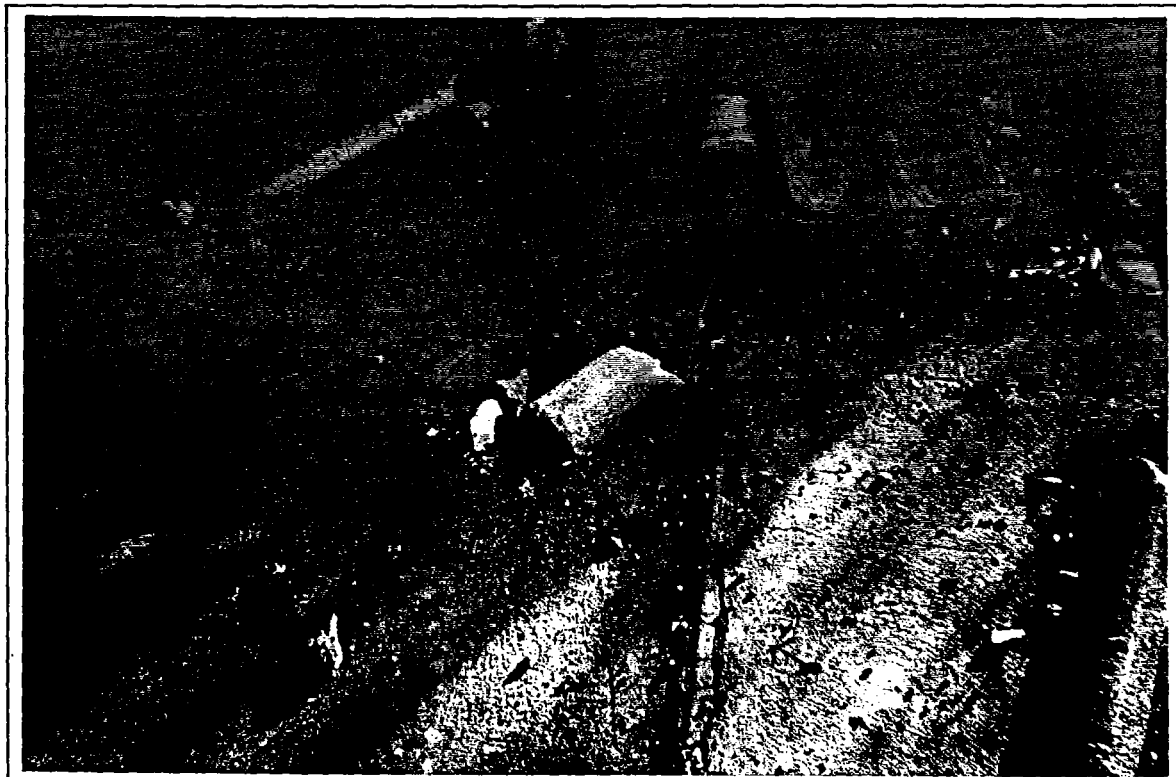


Photo 2 - Building 6-01 - East wing, southern area. Example of asbestos pipe lagging which has deteriorated and fallen from piping due to exposure to weather (Sample No. 1-002).



Photo 3 - Building 6-01 - East wing looking north. Note open sides of building which expose ACMs to elements. Also note pipe along exterior wall with only trace TSI remaining.



Photo 4 - Building 6-01 - East wing, southwest corner. Interior of partitioned area with miscellaneous debris on floor. Acres personnel sampling loose debris on floor (Sample No. 1-003). Sample analyzed positive for asbestos.

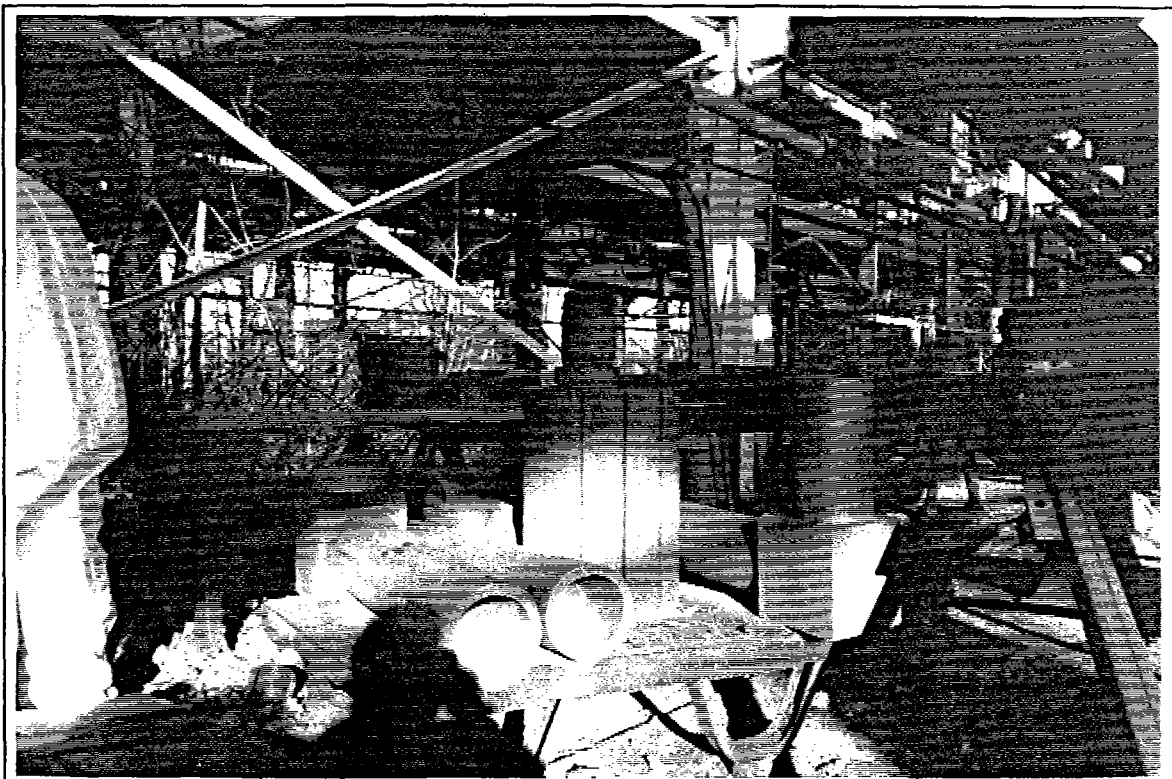


Photo 5 - Building 6-01 - East wing. Vitreous-type threaded pipe from dismantled process line stacked on cart (approximately 15 l.f.) (Sample No. 1-004). Does not contain asbestos.



Photo 6 - Building 6-01 - East wing. Acres personnel sampling large amount of fibrous asbestos-containing debris (approximately cu. ft.) (Sample No. 1-005).

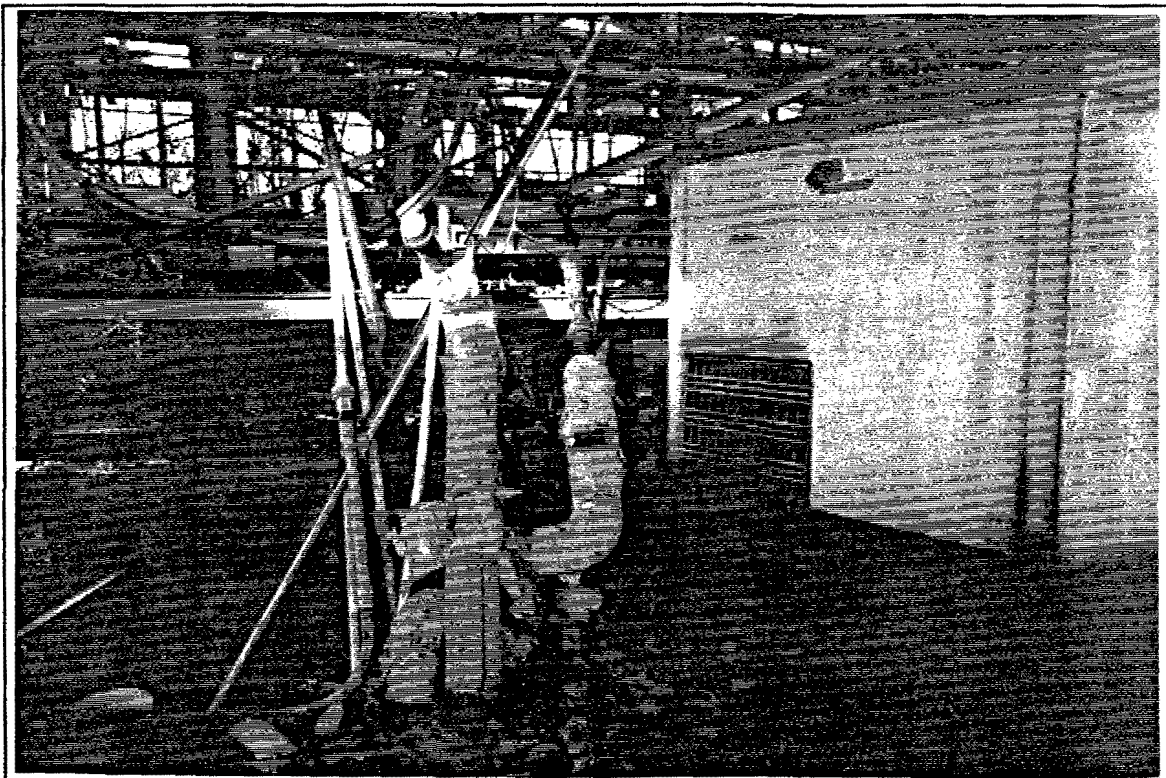


Photo 7 - Building 6-01 - East wing. Dismantling piping arrangement where Sample No. 1-006 was taken. Samples analyzed negative for asbestos.

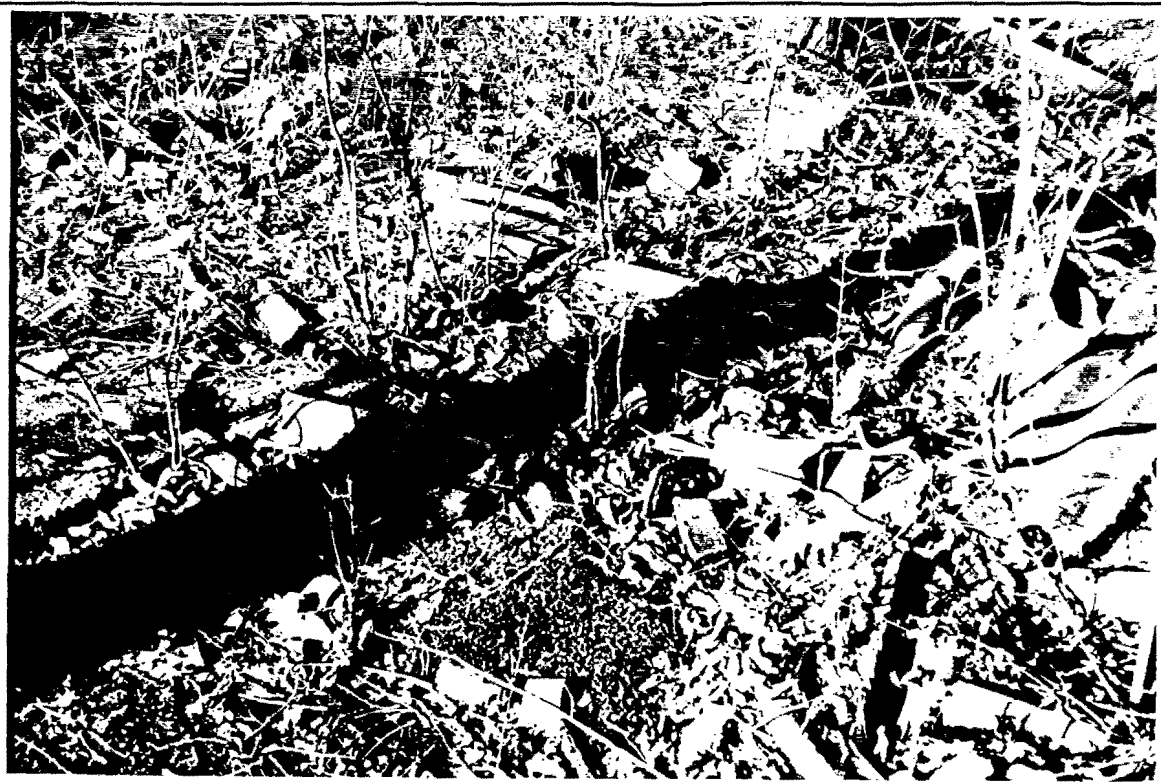


Photo 8 - Building 6-01 - Courtyard ground surface with broken transite panels.

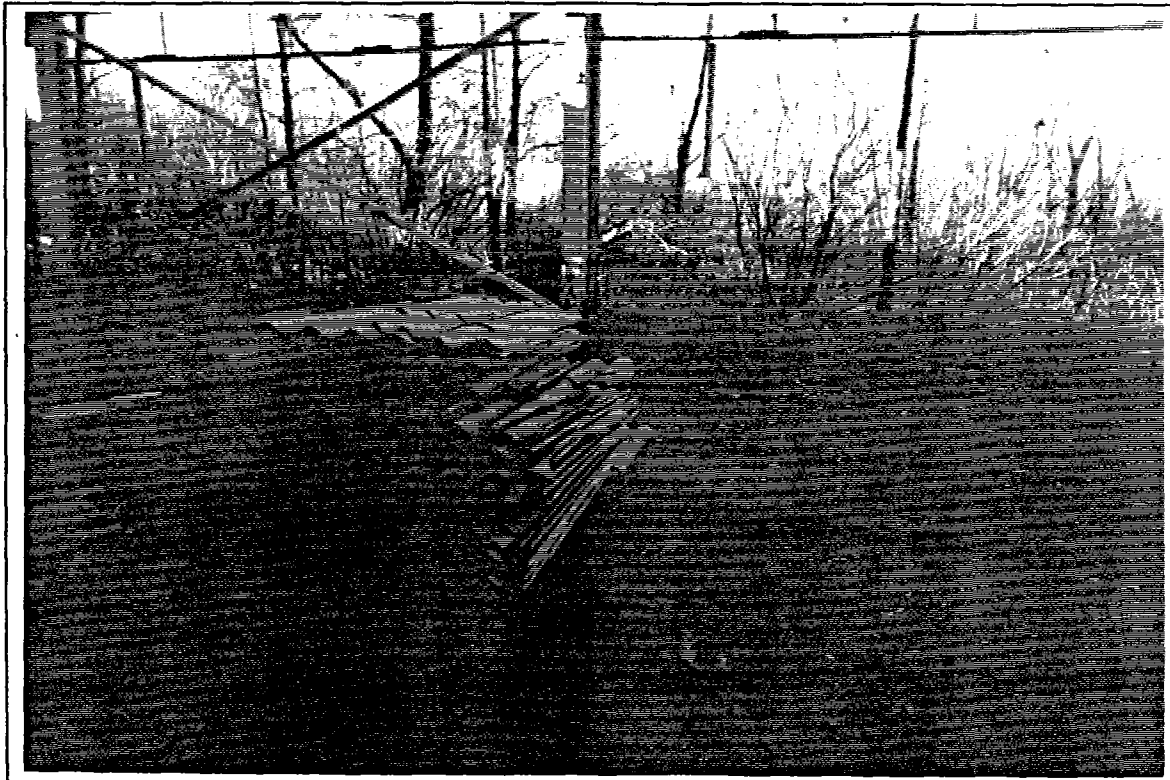


Photo 9 - Building 6-01 - West wing. Typical accumulation of corrugated asbestos transite siding removed from walls of Building 6-01 (Sample No. 1-008).

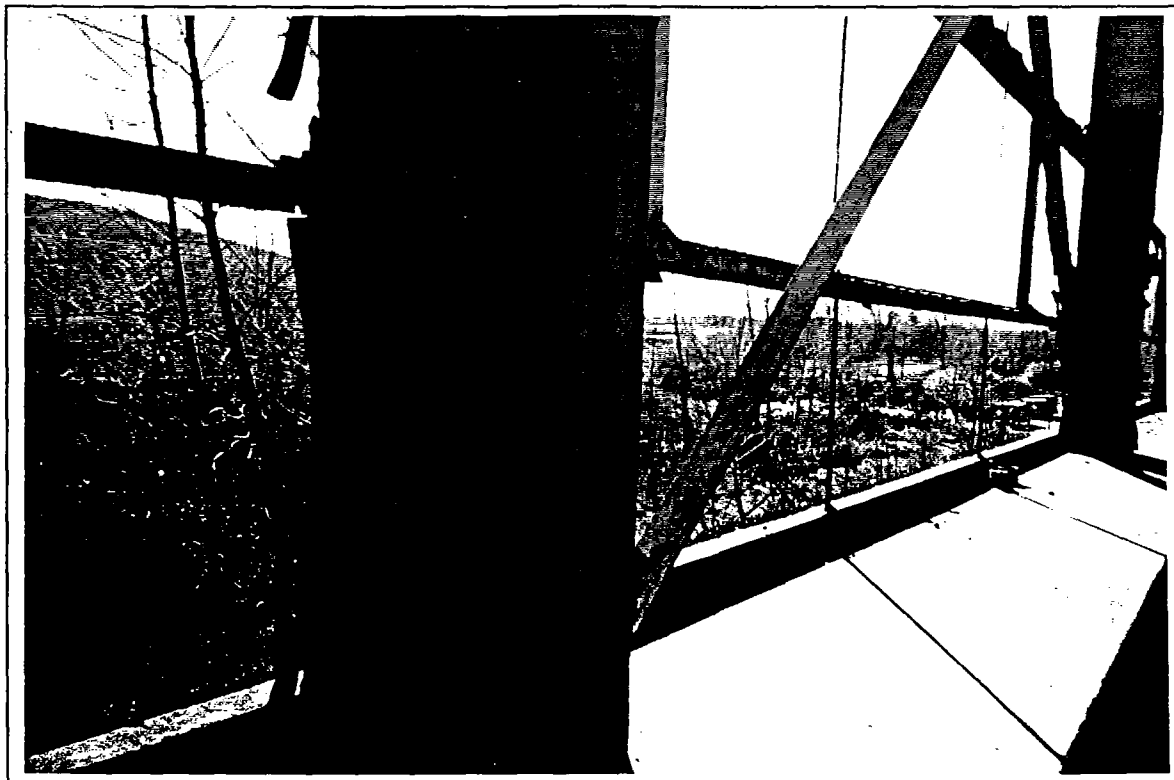


Photo 10 - Building 6-01 - East wing, upper level. Sample of asbestos transite board fastened to outer building columns on upper level (Sample No. 2-009).

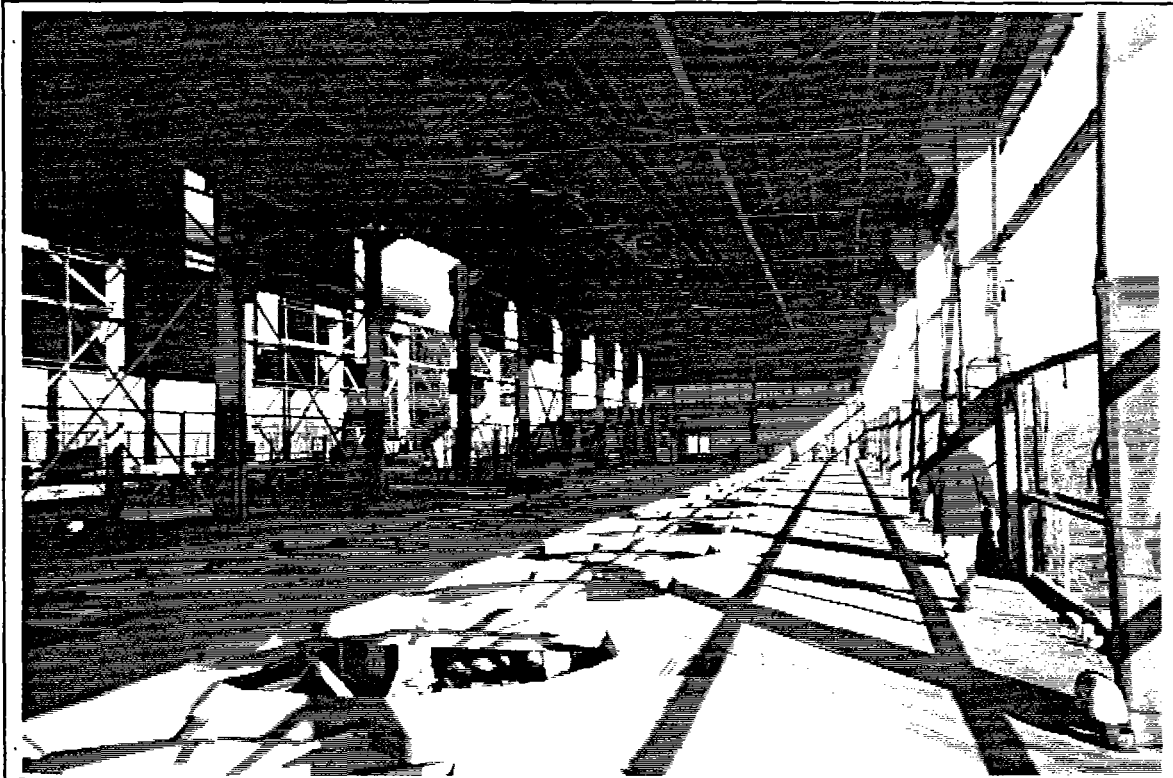


Photo 11 - Building 6-01 - East wing, upper level. View of upper level of building looking north. Note open sides of building.

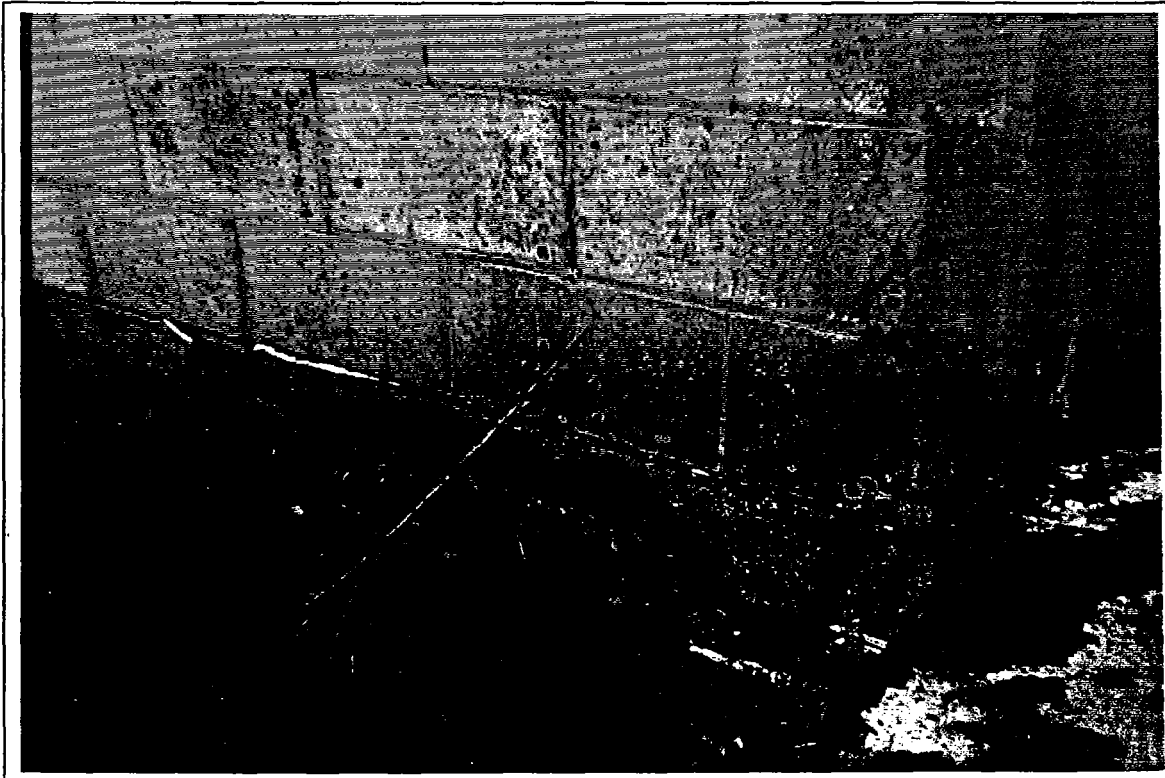


Photo 12 - Building 6-01 - Office area on north end of Building 6-01. Portion of roof where Sample No. 2-010 was taken. Note roof flashing still adhered to building wall. Flashing analyzed positive for asbestos.

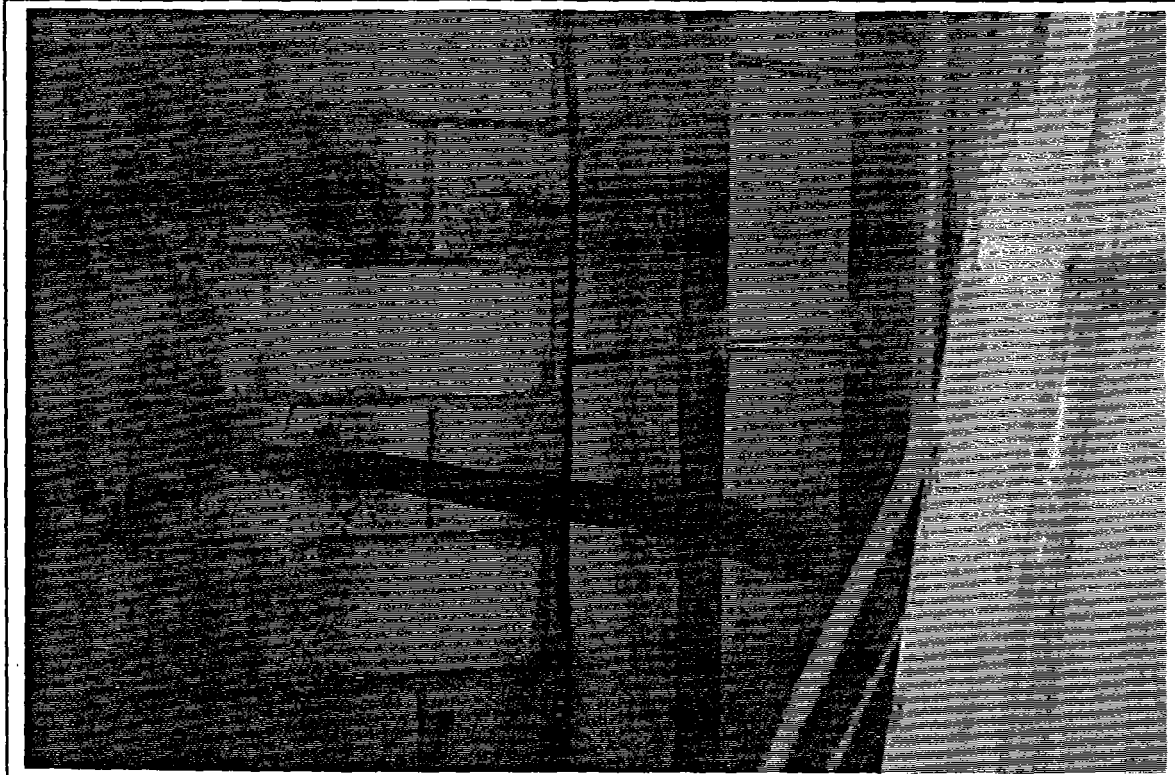


Photo 13 - Building 6-01 - Upper level. Black strips used to seal seams of transite panels around steel structural members (Sample No. 2-011). Strips analyzed negative for asbestos.

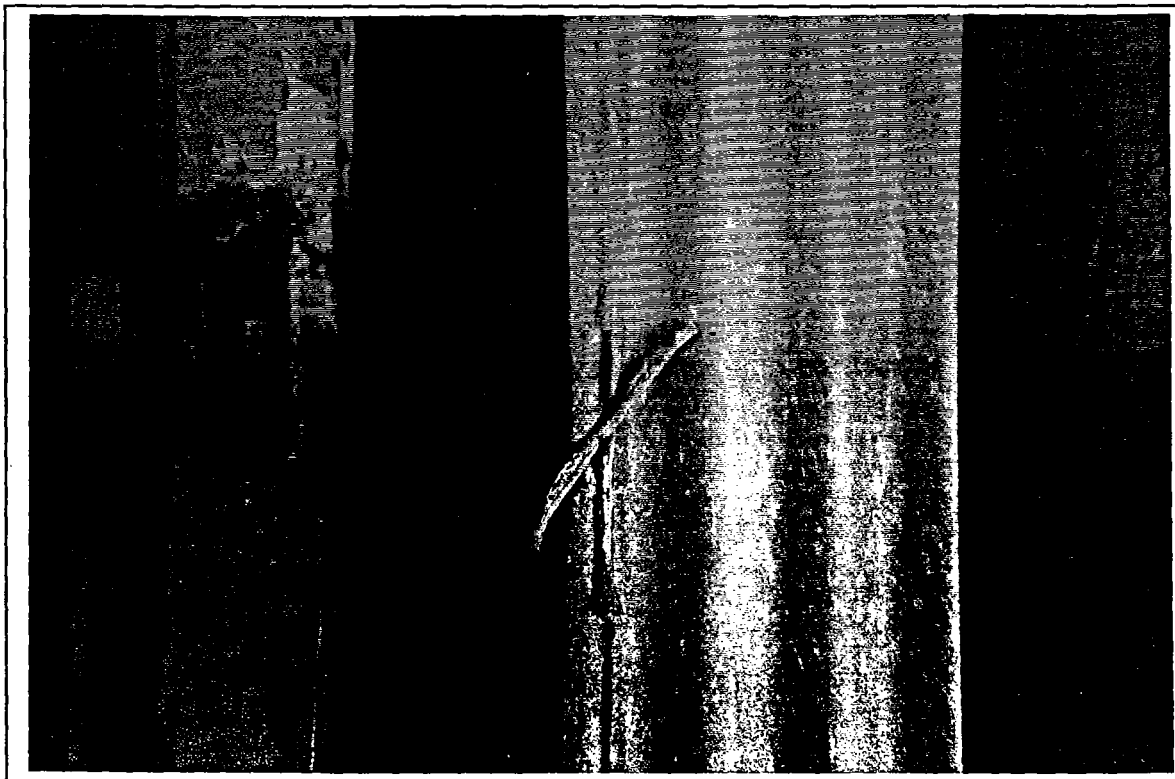


Photo 14 - Building 6-01 - Asbestos caulk material used to seal seams between transite panels (Sample No. 2-012).



Photo 15 - Building 6-01 - Spalling non-asbestos concrete on upper level at floor penetrations (Sample No. 2-013).



Photo 16 - Building 6-01 - East wing, upper level. Accumulation of window frames with non-asbestos window glazing (Sample No. 2-014).

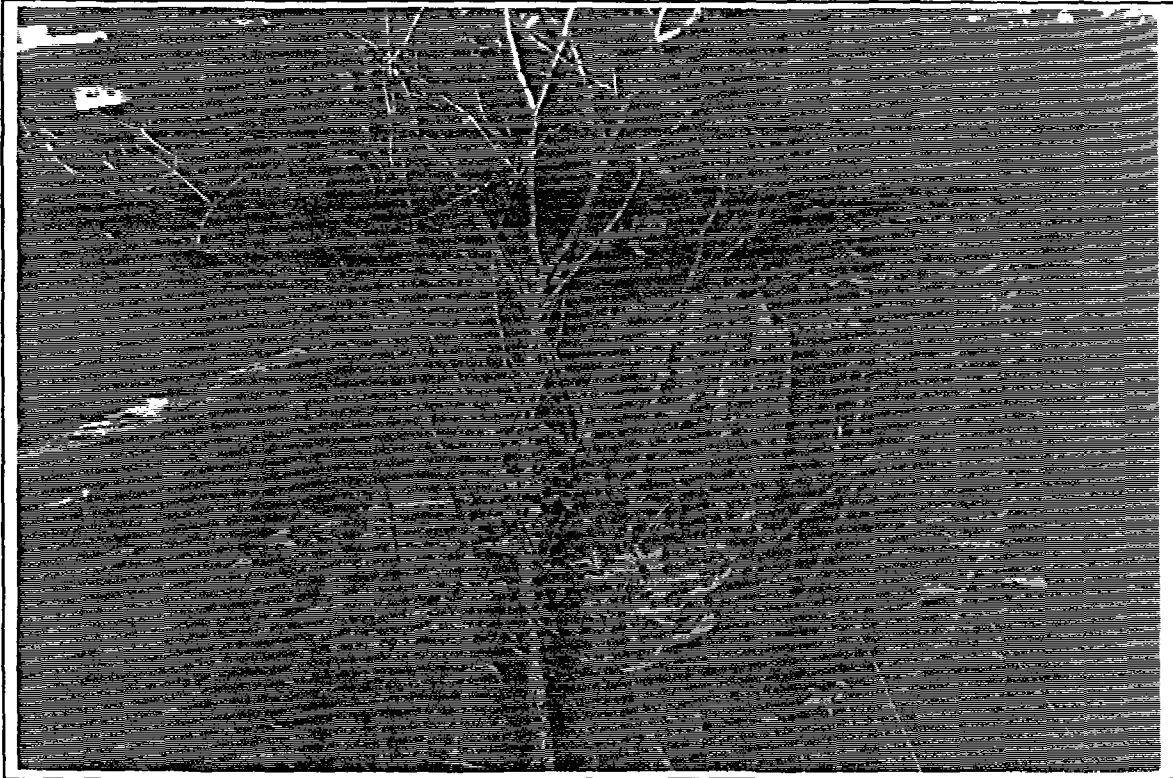


Photo 17 - Building 6-01 - Ground level. Area between east and west wings of building where asbestos transite panels have fallen from upper level and pieces have been scattered about on ground.



Photo 18 - Building 6-01 - Ground level. Concrete asbestos-containing expansion joint from between CMU's and concrete pad on second level of building at north end (Sample No. 1-015).

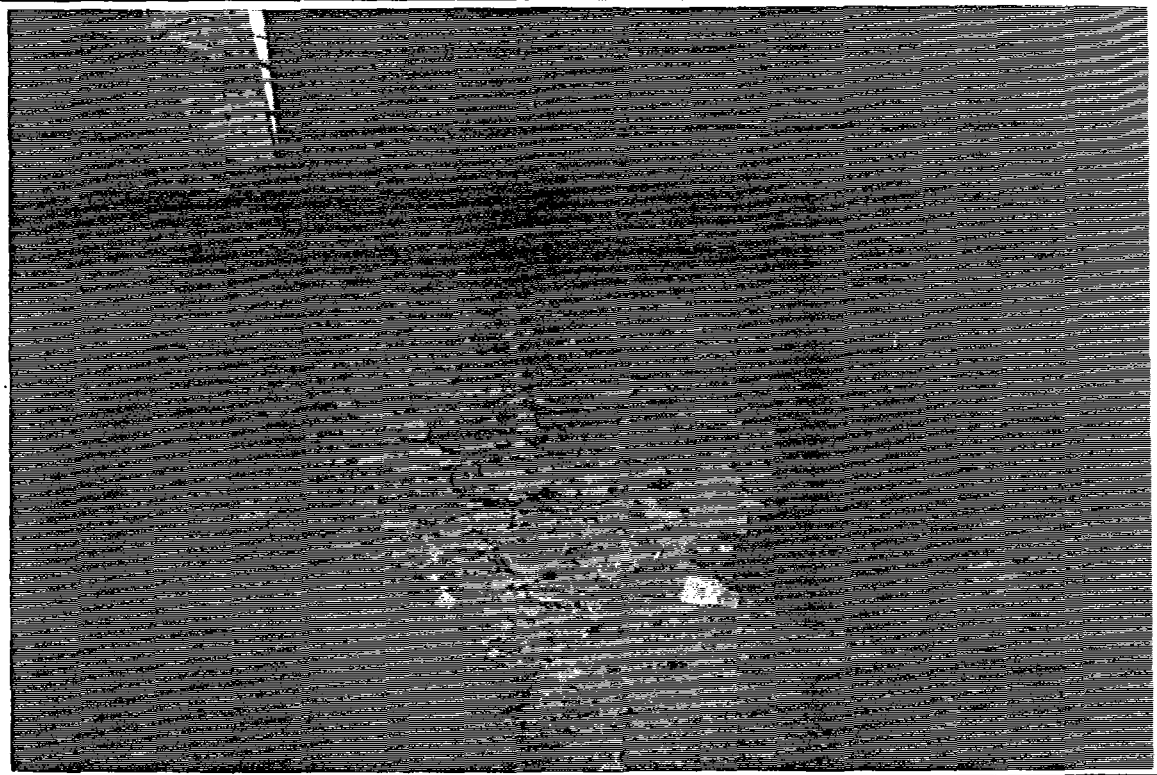


Photo 19 - Building 6-02 - View of building interior looking toward east entrance. Note accumulation of asbestos pipe TSI on building floor left after internal piping was removed (Sample No. 1-016).

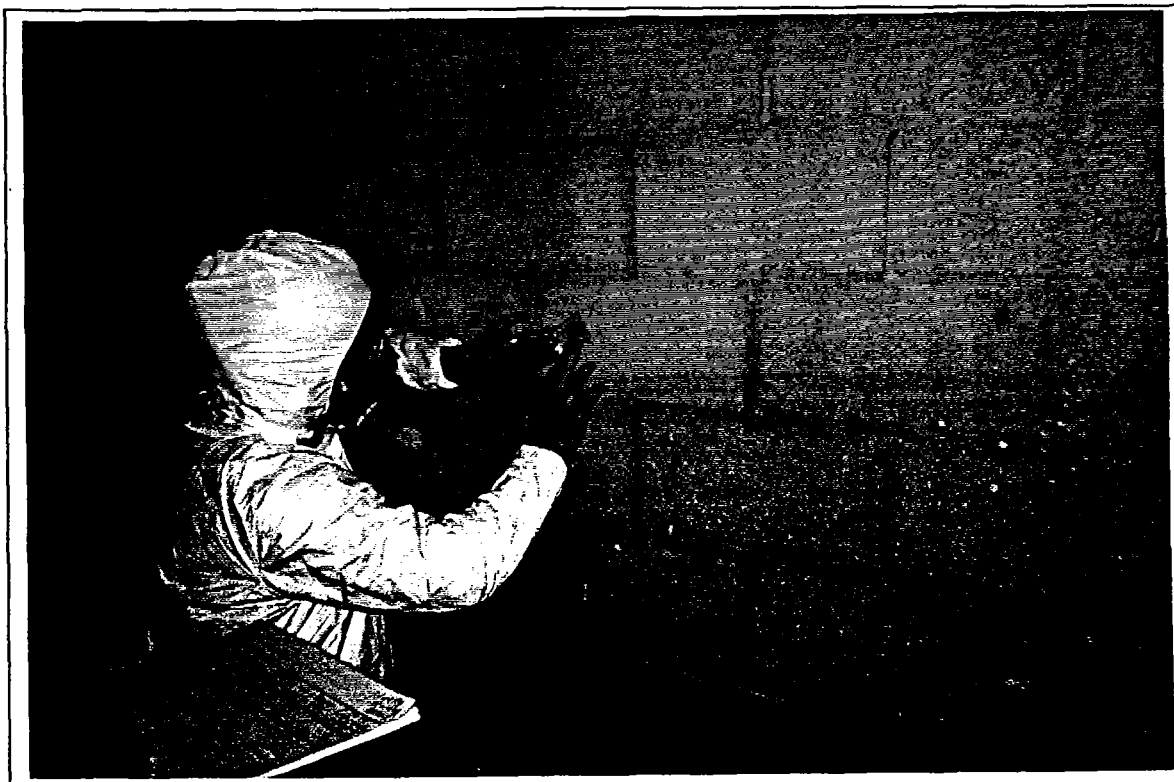


Photo 20 - Building 6-02 - Acres personnel taking asbestos swipe sample from interior building wall (Sample No. 1-017).

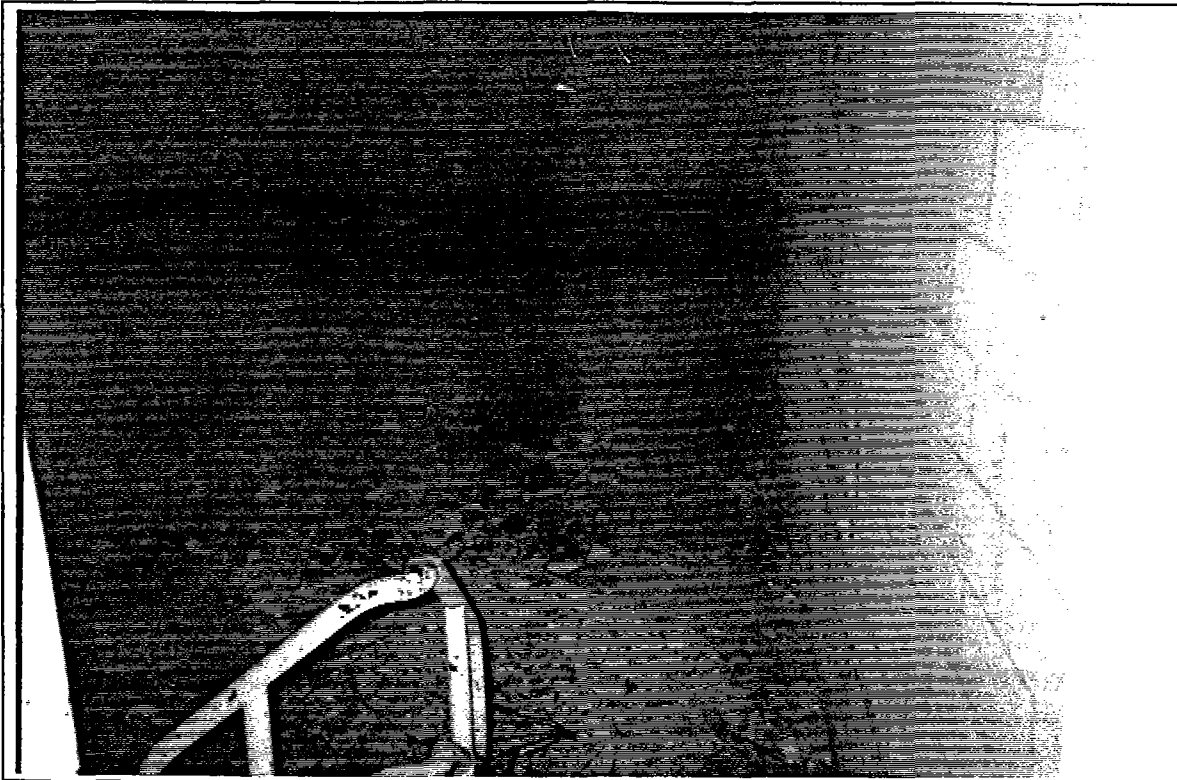


Photo 21 - Building 6-03 - View of building interior looking toward west entrance. Note accumulation of asbestos pipe TSI on building floor left after internal piping was removed (Sample No. 1-018).



Photo 22 - Building 6-03 - Building exterior. Accumulation of asbestos transite panels outside building's east entrance looking north.

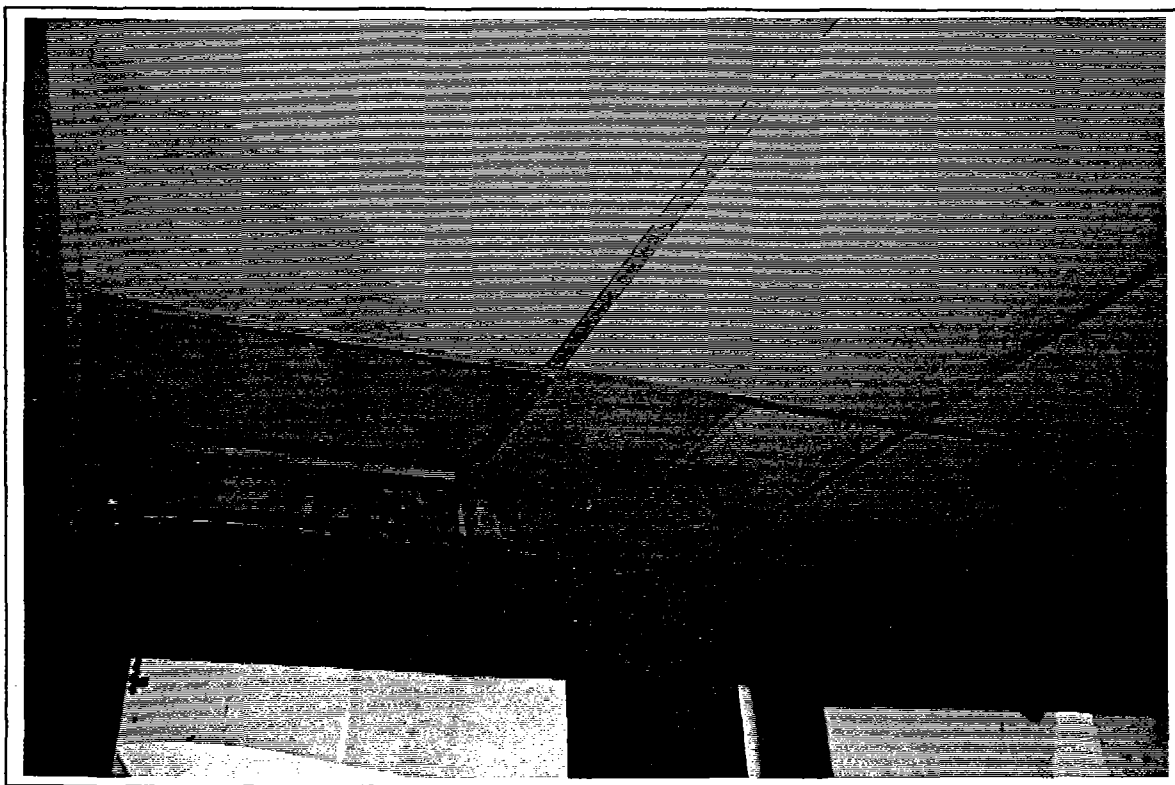


Photo 23 - Building 30 - Non-asbestos ceiling tile in main warehouse area on east side. Note water intrusion due to roof membrane failure (Sample No. 1-020).

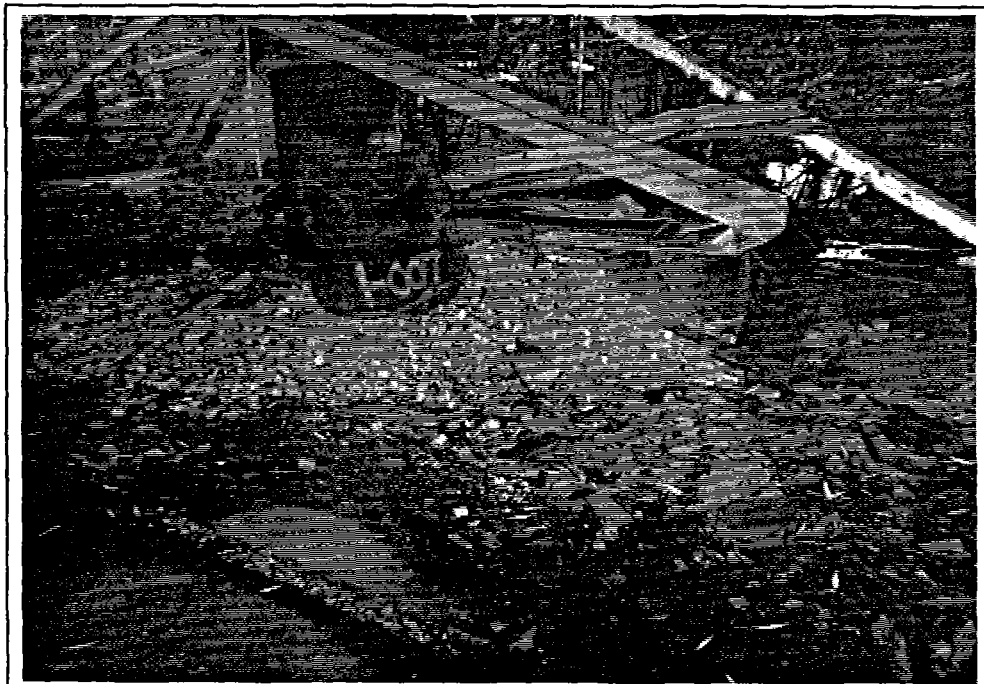


Photo 24 - Building 6-01 - West wing. Cylindrical, ceramic electrical insulators (Sample No. 1-007). Does not contain asbestos.

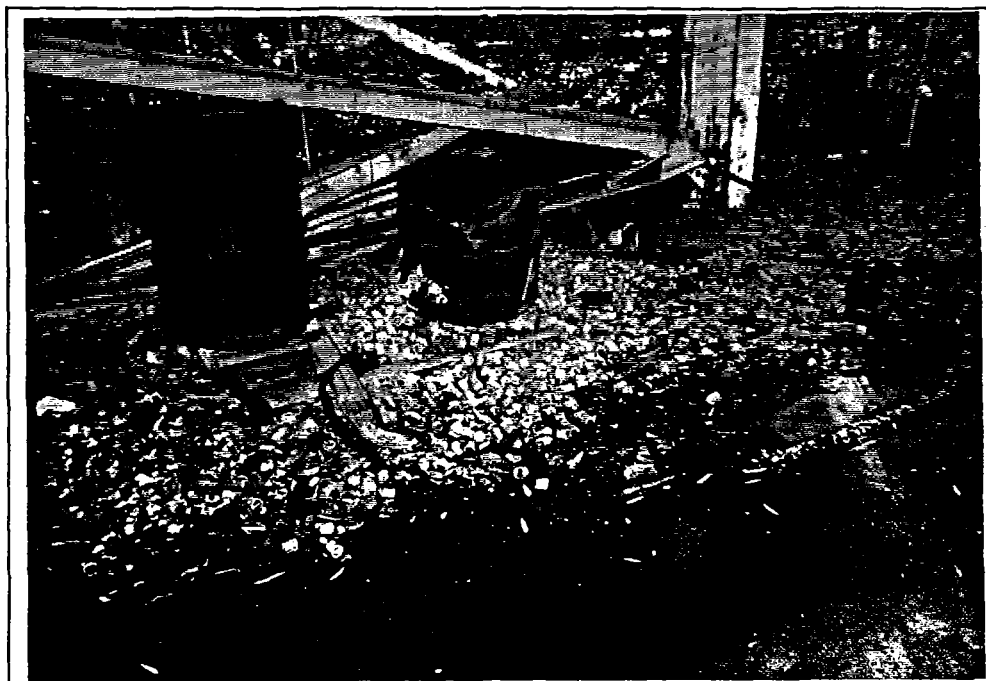


Photo 25 - Building 6-01 - West wing. Cylindrical, ceramic electrical insulators (Sample No. 1-007). Does not contain asbestos.



Photo 26 - Building 30 - Hot water fan-coil heater unit at which Sample No. 1-023 was taken. Sample analyzed positive for asbestos.

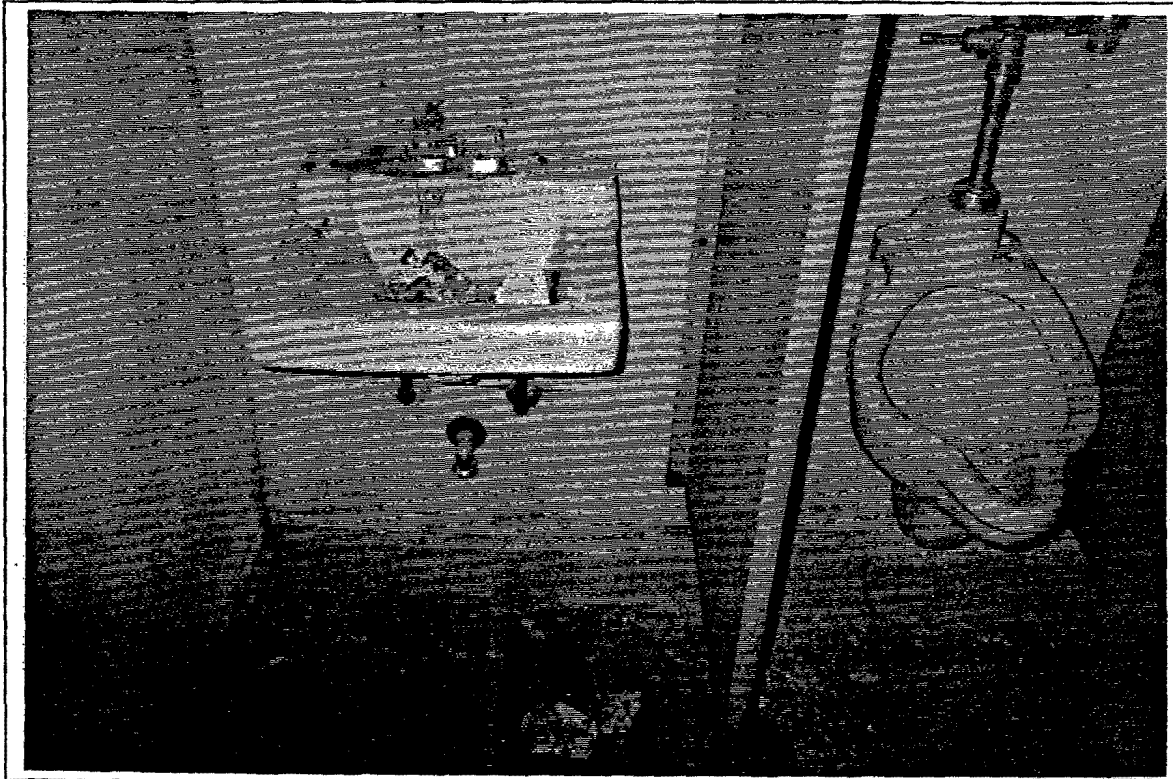


Photo 27 - Building 30 - Men's bathroom area on building's east side. Note that non-asbestos plaster ceiling in this room has collapsed completely due to water intrusion from roof (Sample No. 1-024).



Photo 28 - Building 30 - Corridor of east side boiler room. Note extent of non-asbestos plaster ceiling collapse (Sample No. 1-024).



Photo 29 - Building 30 - Corridor of east side boiler room. Note extent of non-asbestos plaster ceiling collapse (Sample No. 1-024).



Photo 30 - Same as Photo 29 above.

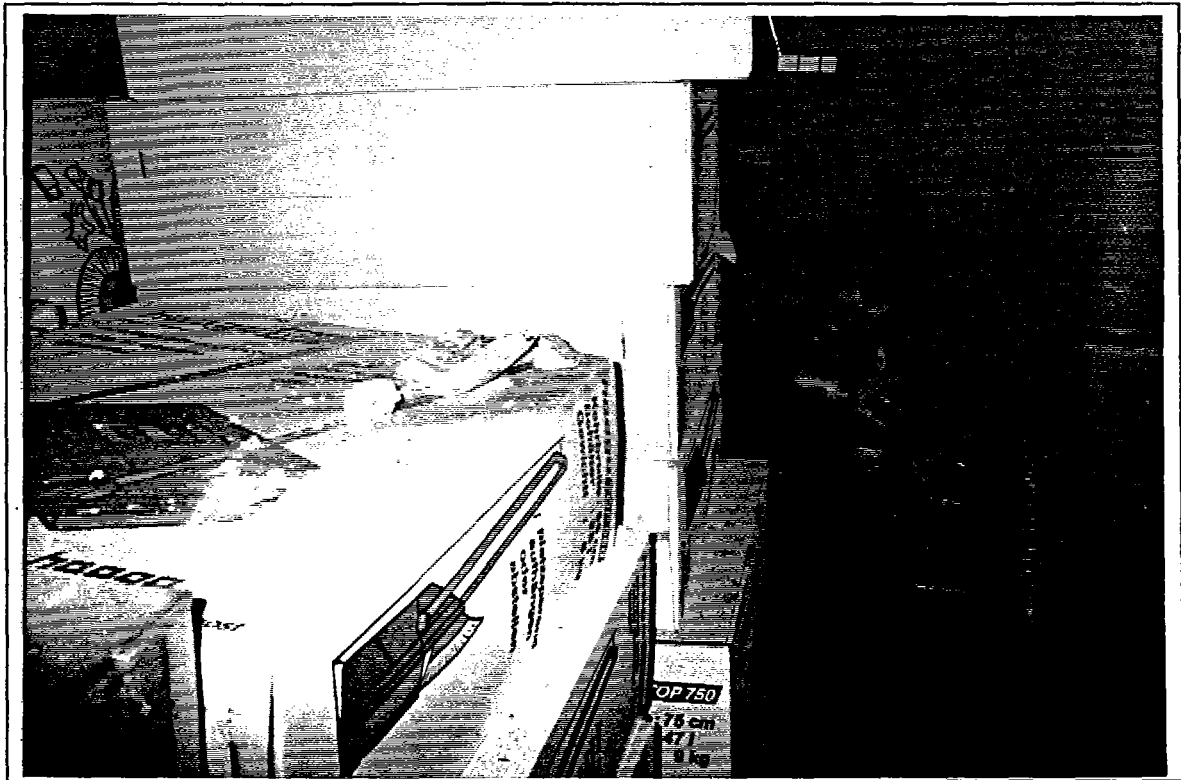


Photo 31 - Building 30 - Stockpiles of stored equipment in main area of warehouse where asbestos pipe TSI has fallen from piping and collected on top of stockpiles (Sample No. 1-022).

LOOW - BUILDING 30

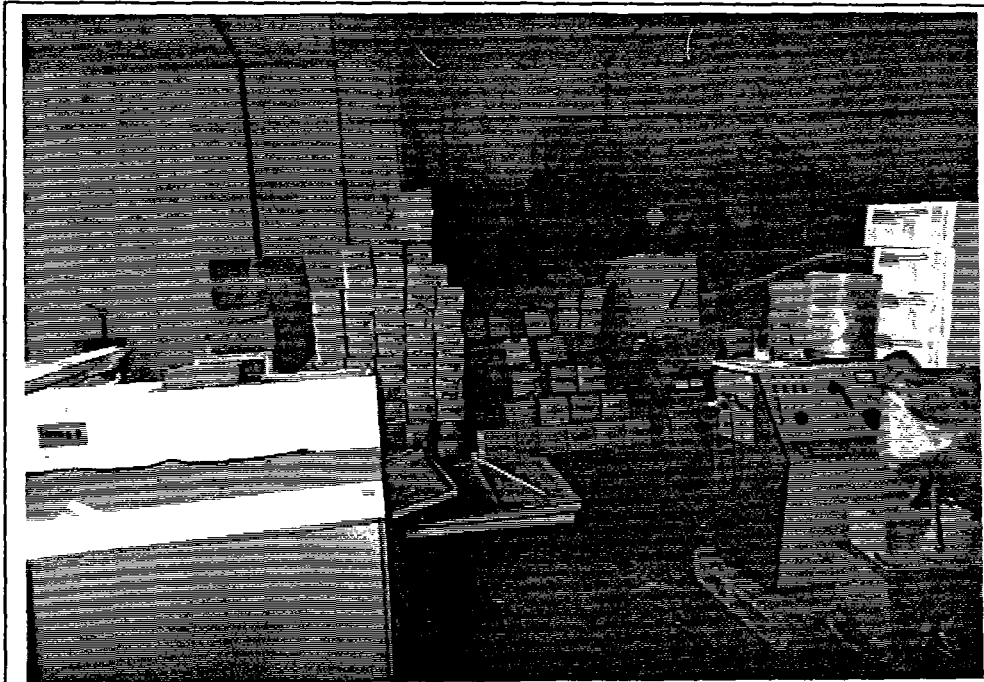


Photo 32 - Building 30 - Stockpiles of stored equipment in main area of warehouse where asbestos pipe TSI has fallen from piping and collected on top of stockpiles (Sample No. 1-022).

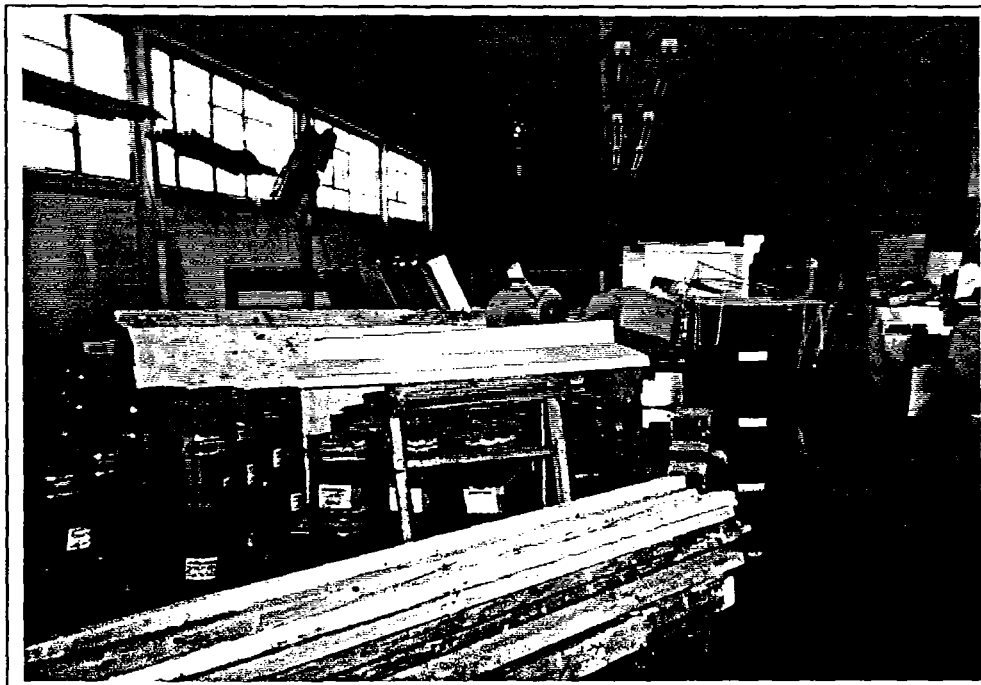


Photo 33 - Building 30 - View of warehouse interior looking north.

LOOW - BUILDING 30

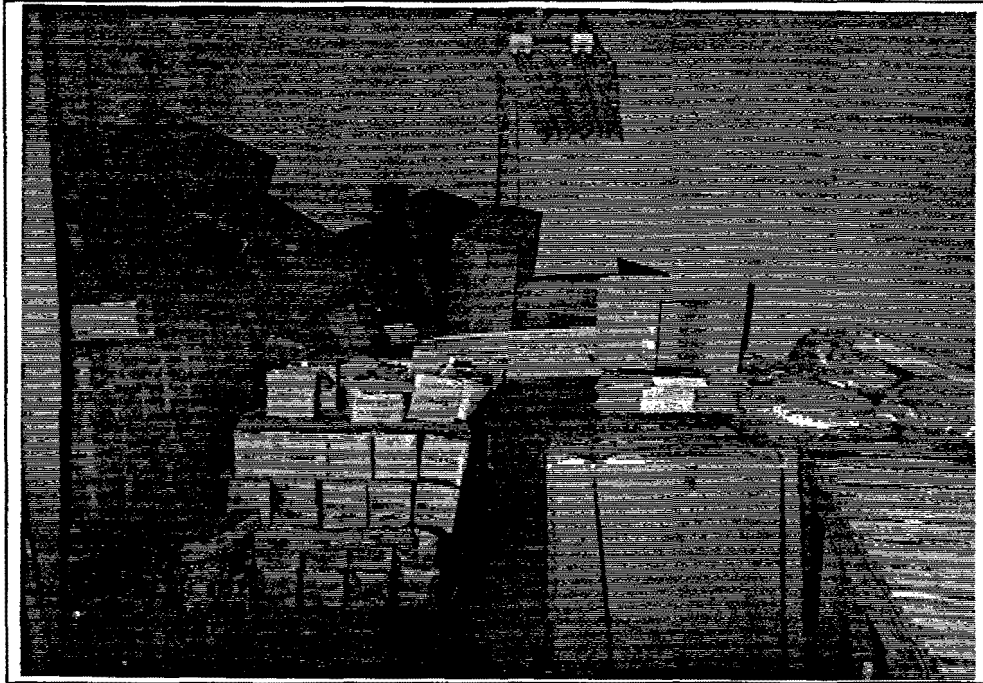


Photo 34 - Building 30 - Stockpiles of stored equipment in main area of warehouse where asbestos pipe TSI has fallen from piping and collected on top of stockpiles (Sample No. 1-022).

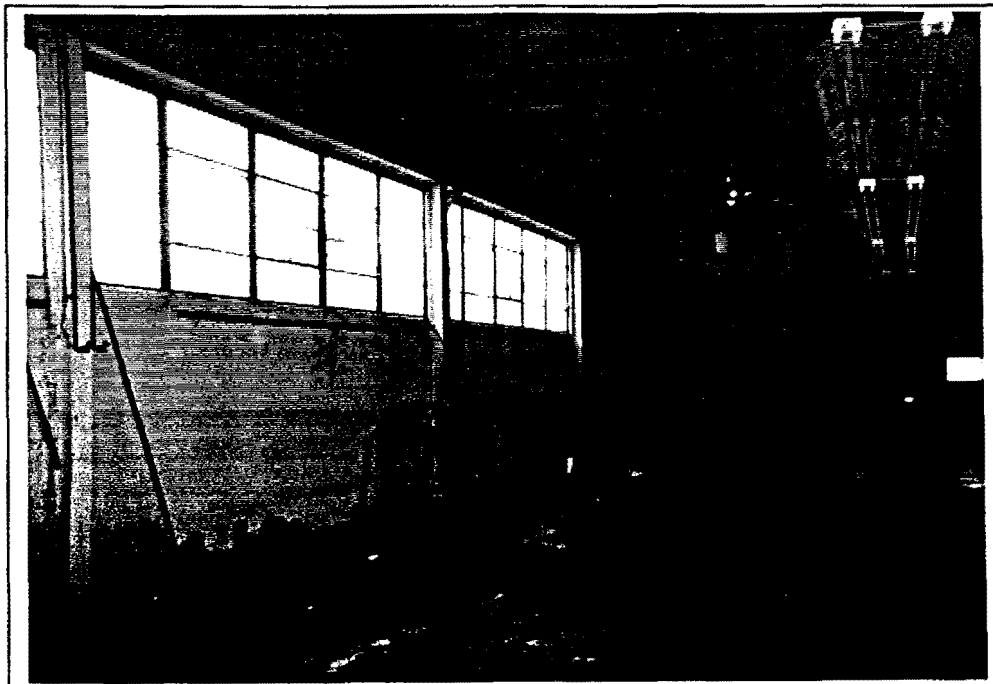


Photo 35 - Building 30 - View of warehouse interior looking north.



Photo 36 - Building 30 - West side of building where concrete roof panels have deteriorated and fallen in. Sample No. 1-026, non-asbestos concrete roof panels, taken here.

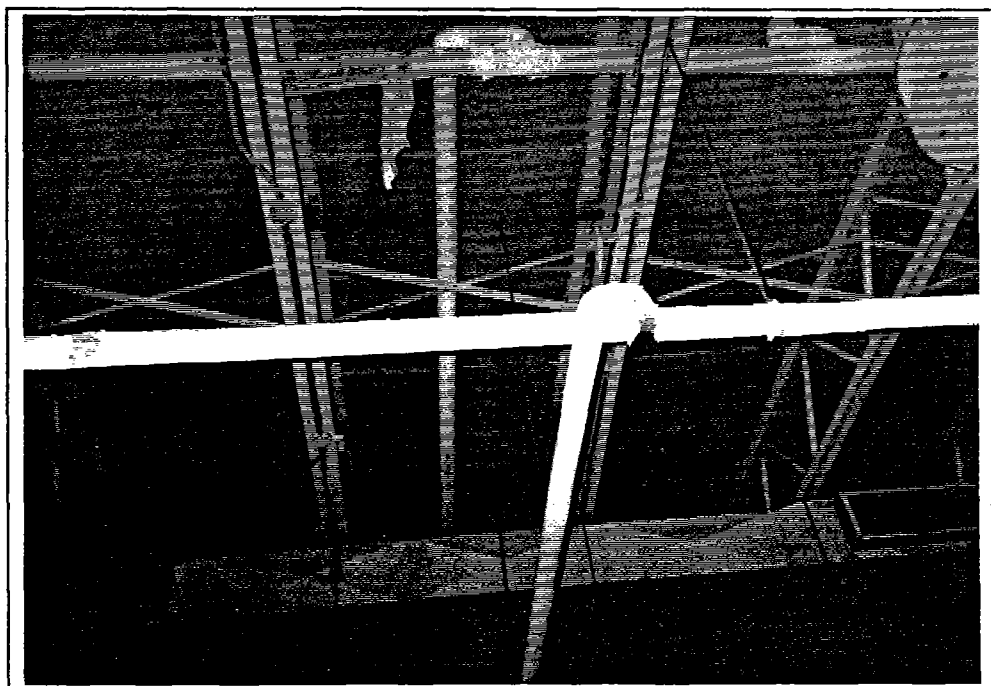


Photo 37 - Building 41 - Hot water distribution piping where Sample No. 1-027 was taken. Sample analyzed negative for asbestos.

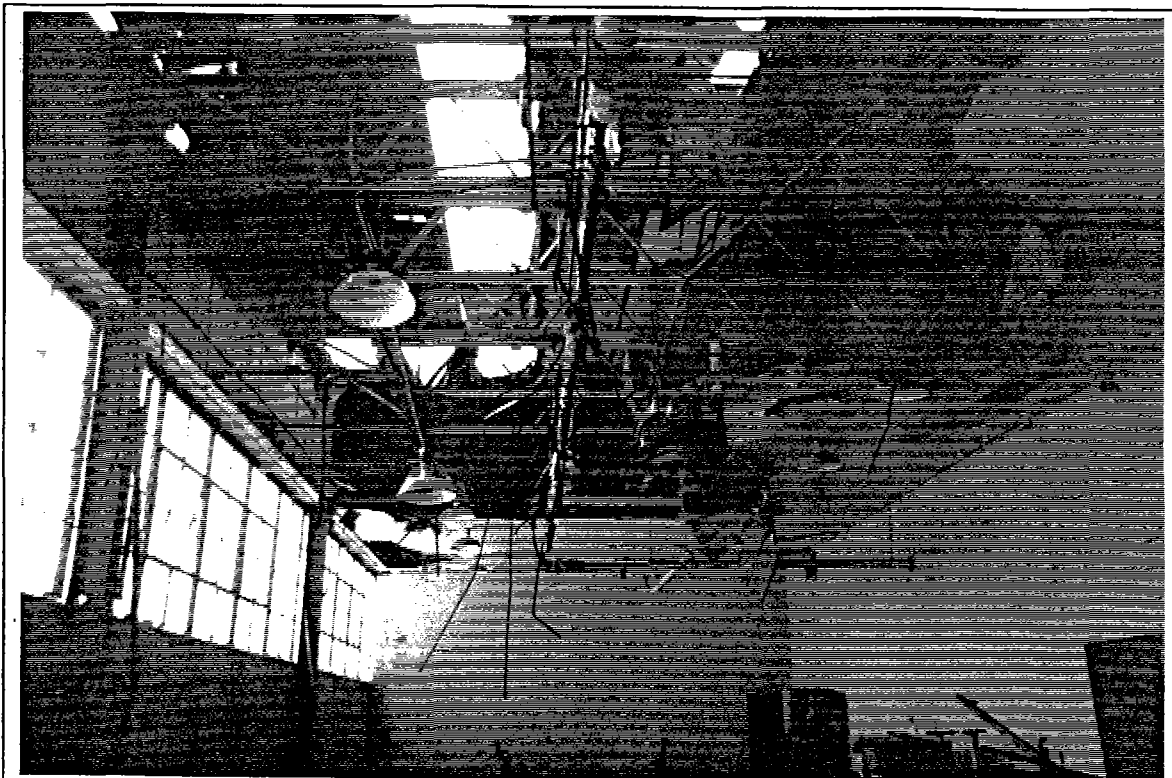


Photo 38 - Building 41 - East side of building where water intrusion has caused collapse of non-asbestos plaster ceiling (Sample No. 1-029), non-asbestos concrete roof panels (Sample No. 1-030), and non-asbestos roof flashing material (Sample No. 1-031)

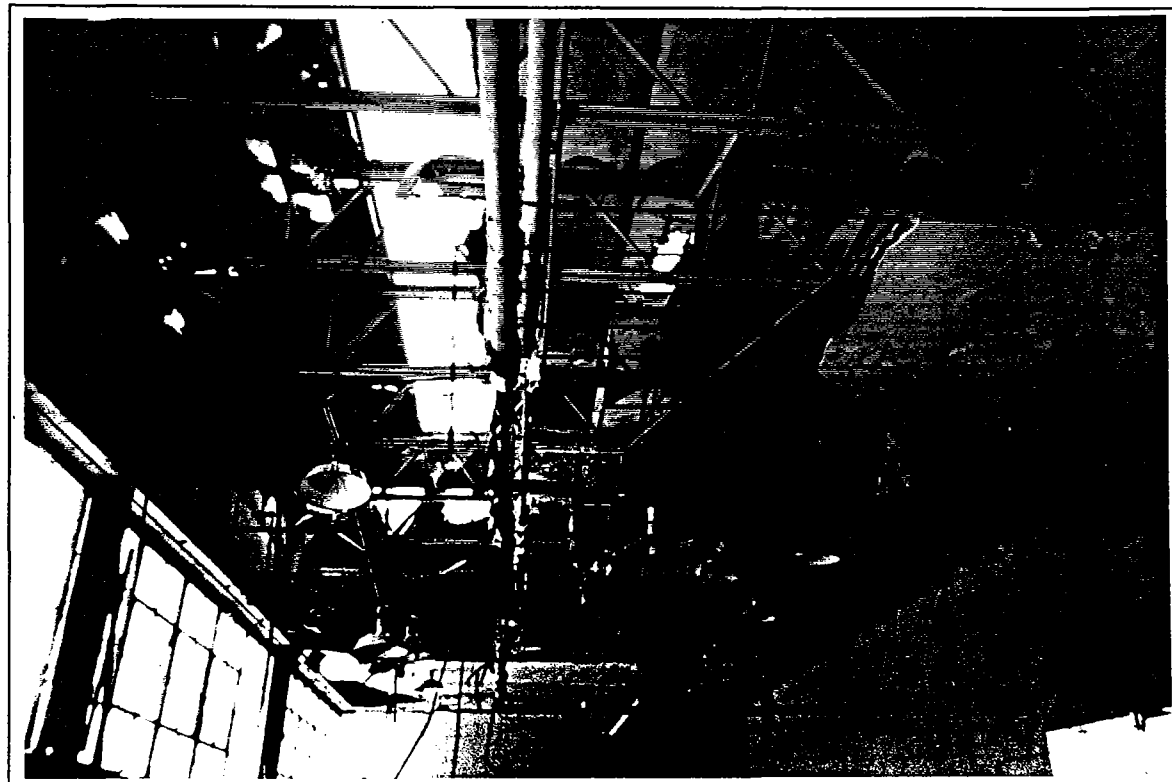


Photo 39 - See Photo 38 above.

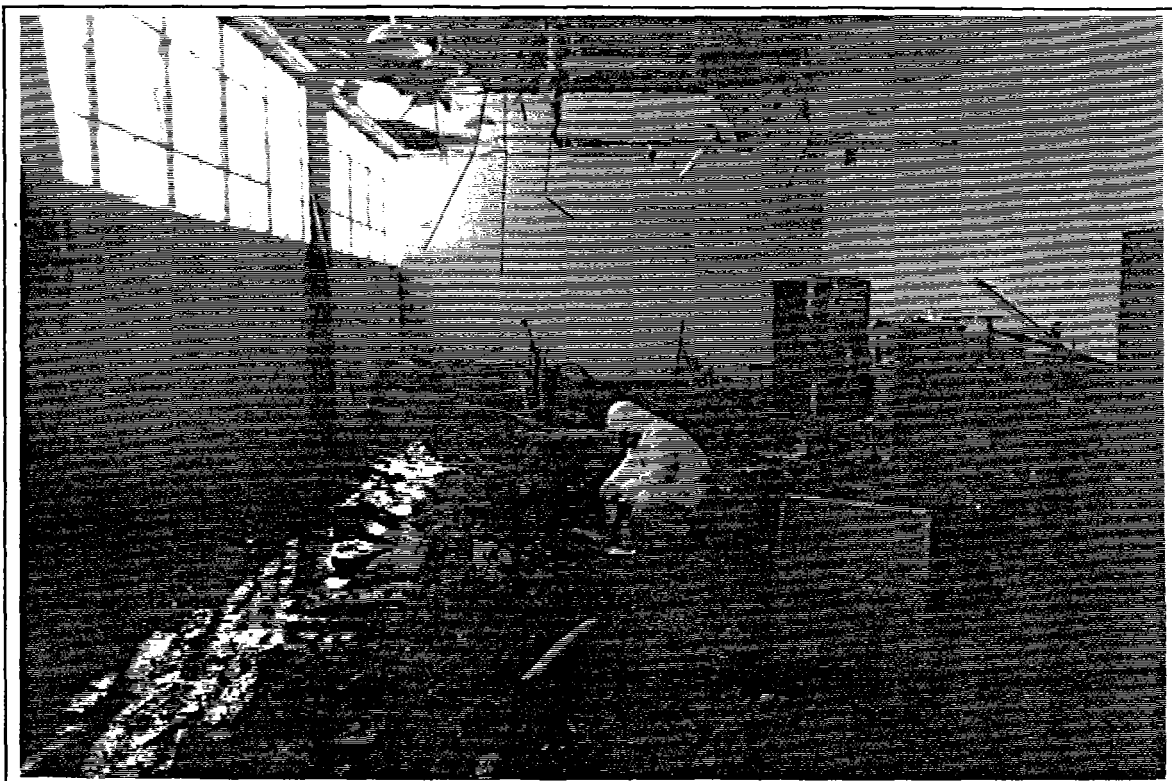


Photo 40 - Building 41 - East side of building where water intrusion has caused collapse of non-asbestos plaster ceiling (Sample No. 1-029), non-asbestos concrete roof panels (Sample No. 1-030), and non-asbestos roof flashing material (Sample No. 1-031)

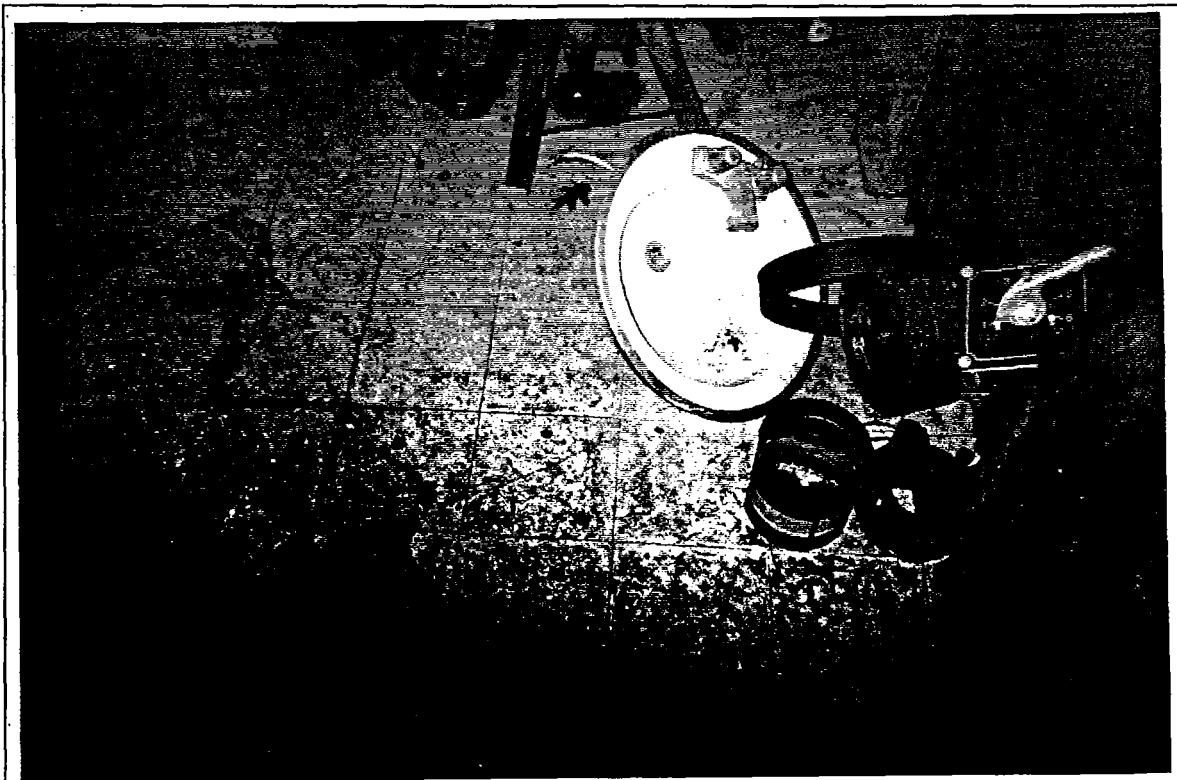


Photo 41 - Building 41 - 9 inch x 9 inch yellow VAT in area adjacent to bathroom area next to boiler room area (Sample No. 1-033).



Photo 42 - Building 41 - East side of building, 18-inch diameter by 36-inch long pressure vessel from which Sample No. 1-034 was taken. Sample analyzed negative for asbestos.

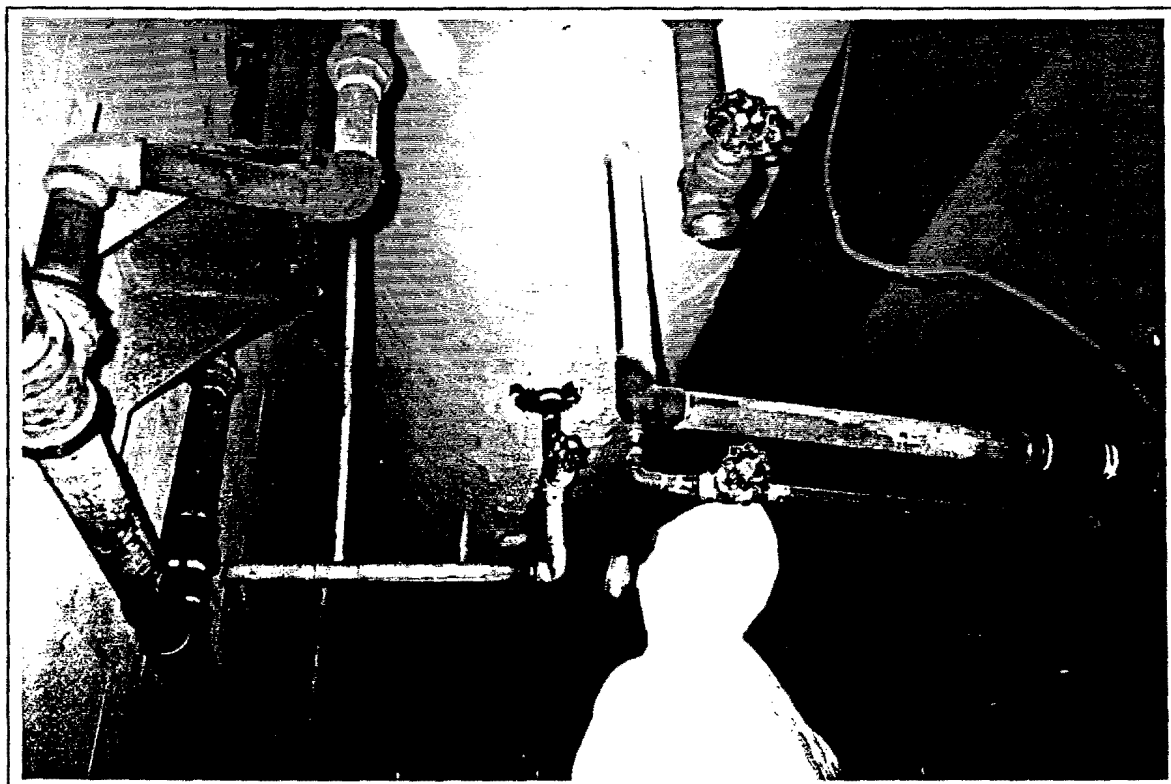


Photo 43 - Building 41 - Boiler room. Make-up water tank asbestos TSI from which Sample No. 1-035 was taken.

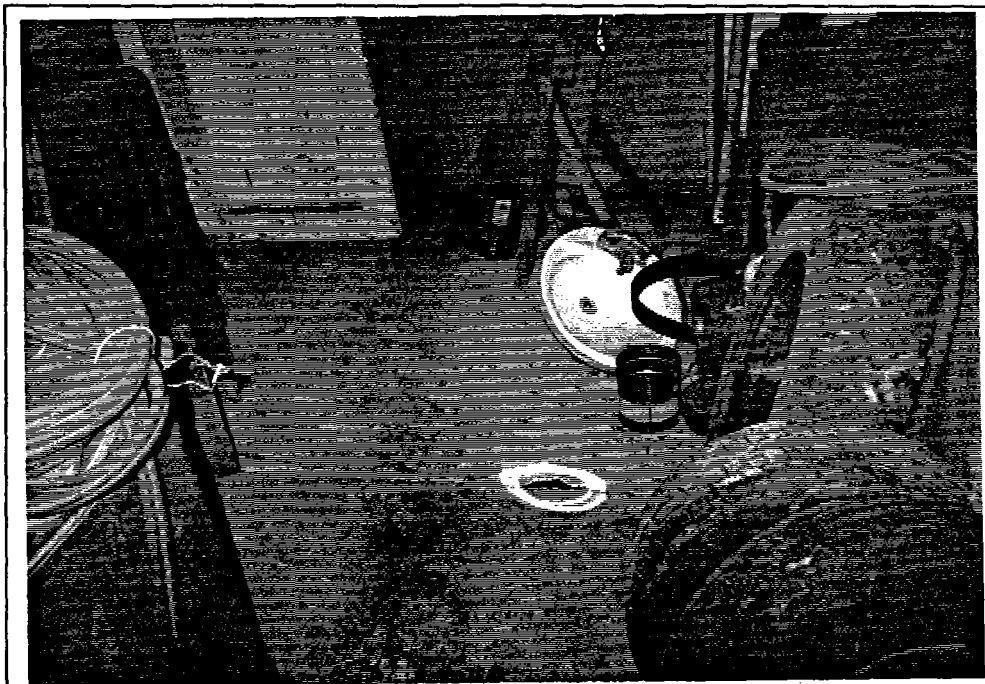


Photo 44 - Building 41 - 9 inch by 9 inch yellow VAT in area adjacent to bathroom area next to boiler room area (Sample No. 1-033).

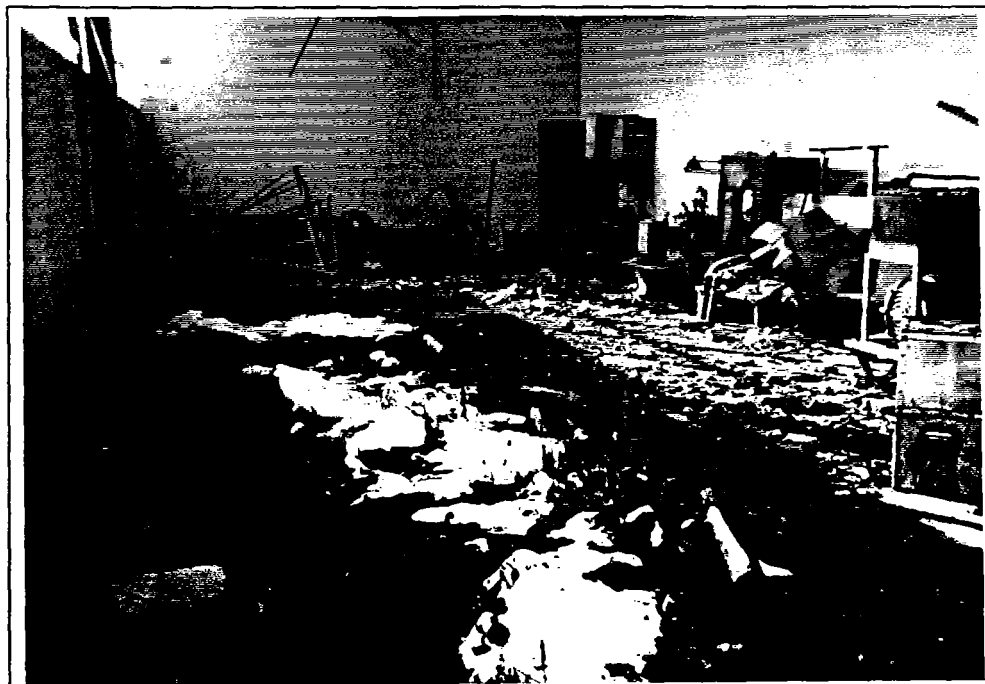


Photo 45 - Building 41 - East side of building where water intrusion has caused collapse of non-asbestos plaster ceiling (Sample No. 1-029), non-asbestos concrete roof panels (Sample No. 1-030), and non-asbestos roof flashing material (Sample No. 1-031).

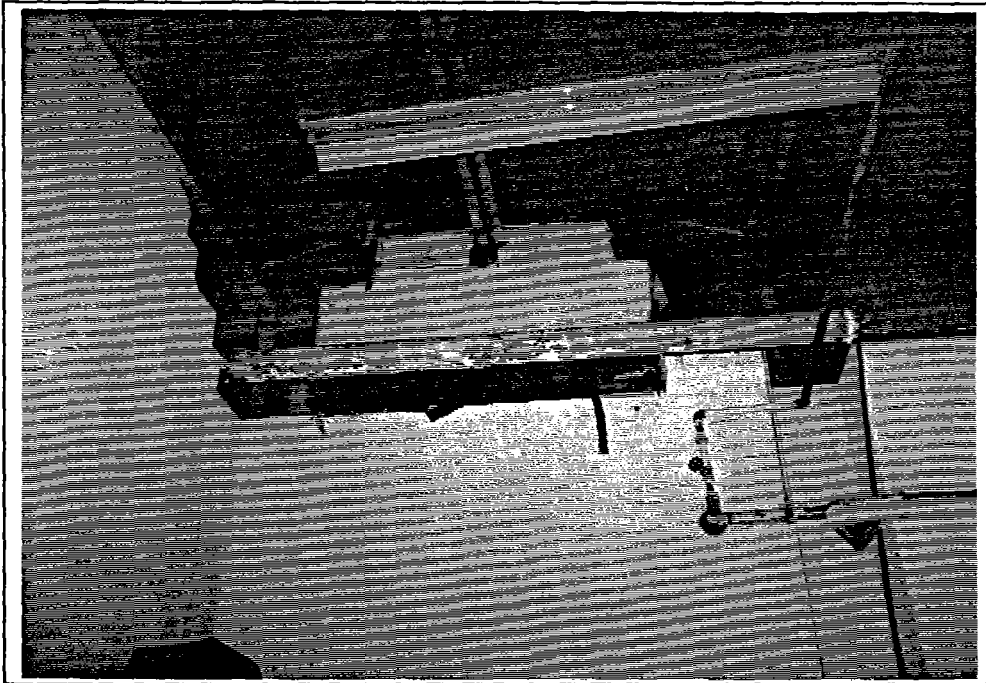


Photo 46 - Building 41 - Entrance to boiler room. End of ductwork over boiler room. Sample 1-037 was taken from this duct wrap within boiler room and was found to contain asbestos.



Photo 47 - Building 41 - Ductwork over boiler room. Sample No. 1-037 was taken here and found to contain asbestos.



Photo 48 - Building 27 - Accumulation of water-damaged, non-asbestos ceiling tile at building counter area (Sample No. 1-036).

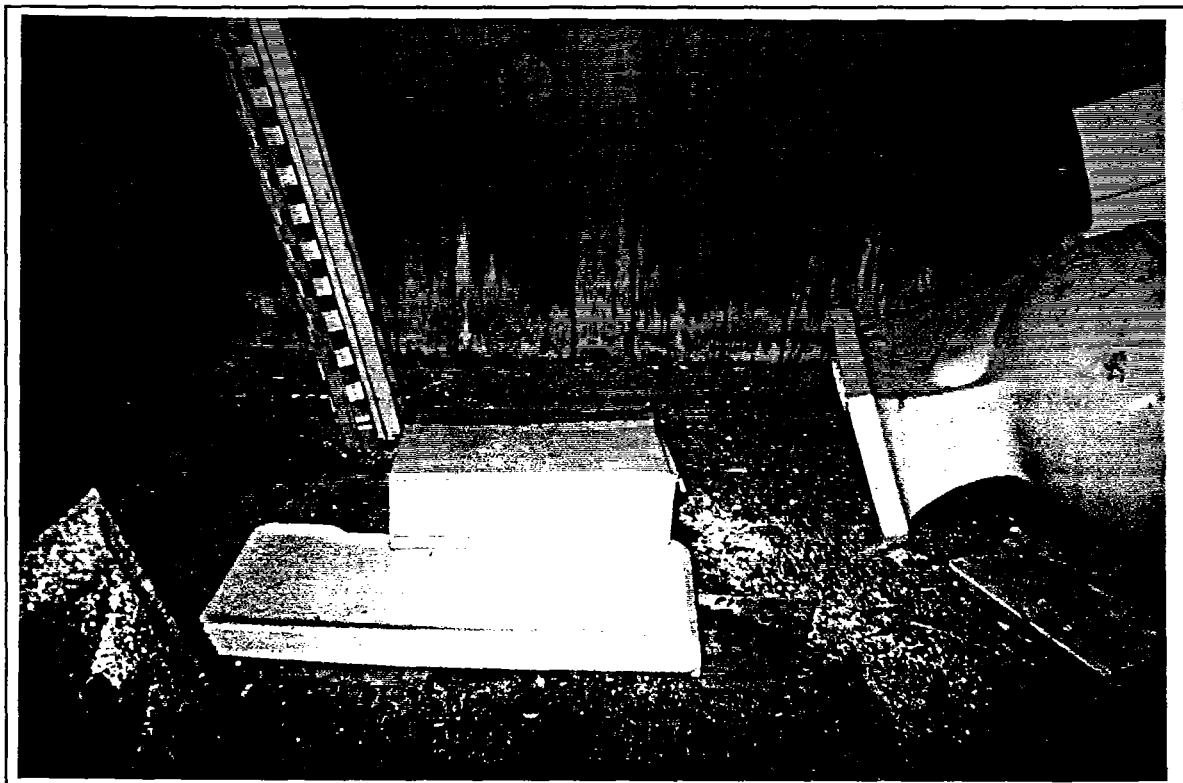


Photo 49 - Building 27 - Box of VAT matching pattern found in Building 30 (Sample No. 1-021).

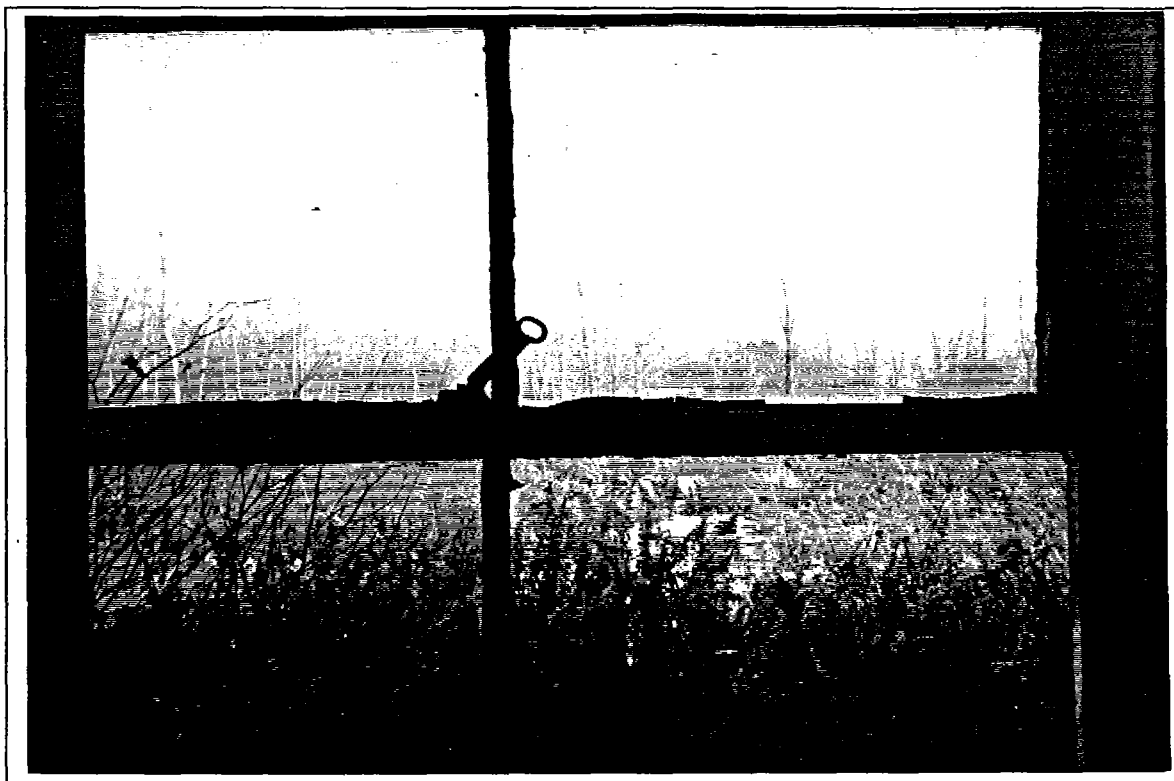


Photo 50 - Building 27 - Sampling point where Sample No. 1-037 was taken.



Photo 51 - Building 30A - Building exterior, east side of building. Photo of steam line asbestos TSI taken in Sample No. 1-047.

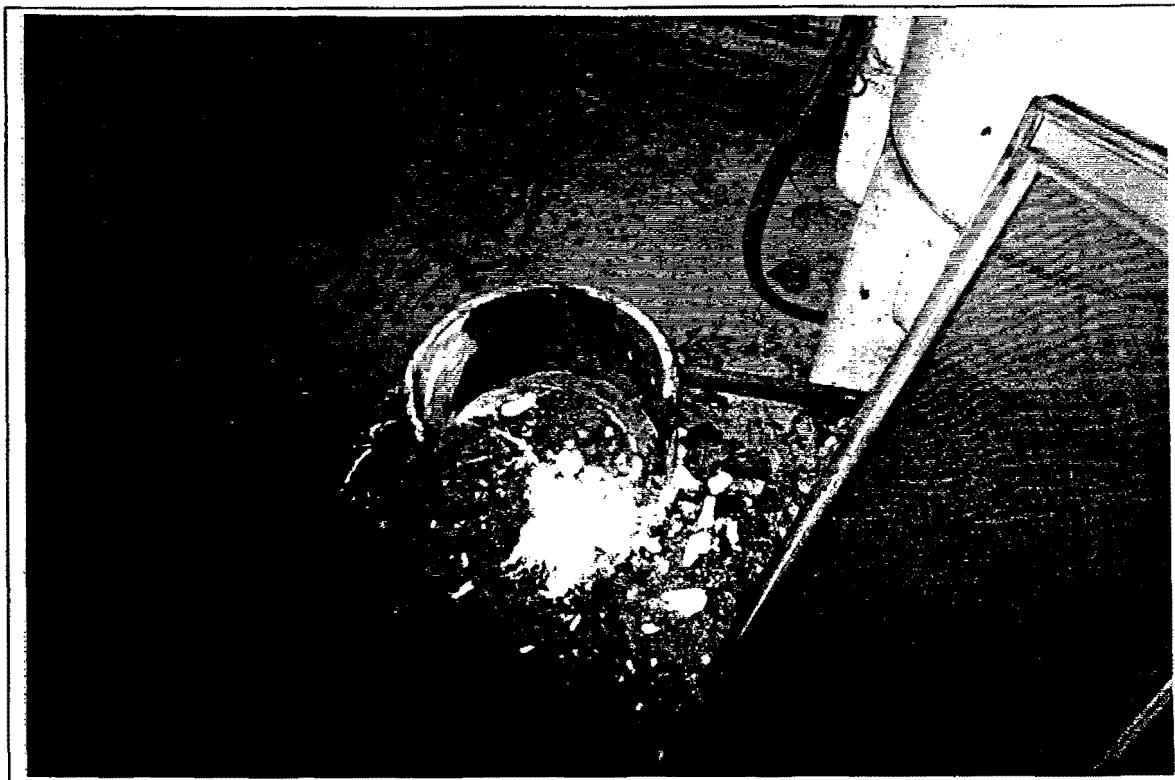


Photo 52 - Building 30A - Circular asbestos transite ductwork found on east side of building (Sample No. 1-048), approximately 14-inch diameter.

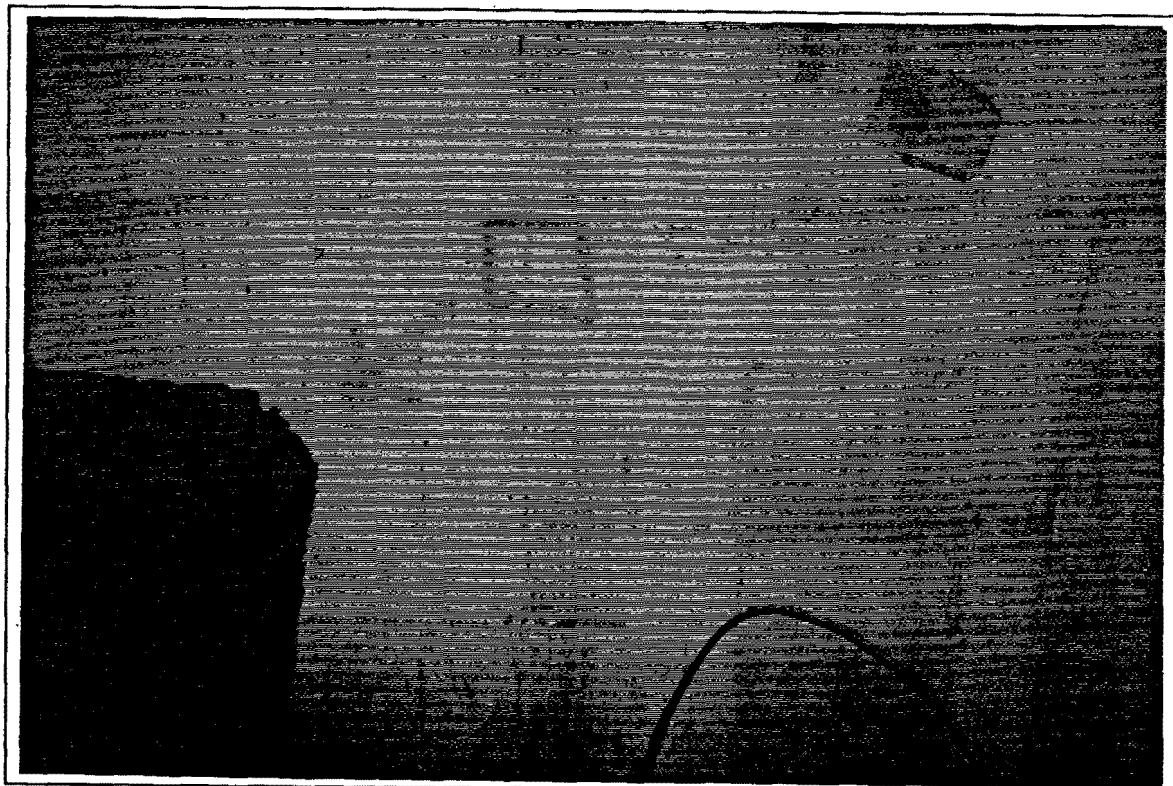


Photo 54 - Building 30A - Location of Wipe Sample Nos. 1-050 and 1-051 taken from the south interior wall of building.



Photo 55 - Building 30A - Location of Wipe Sample Nos. 1-050 and 1-051 taken from the south side interior wall of building.

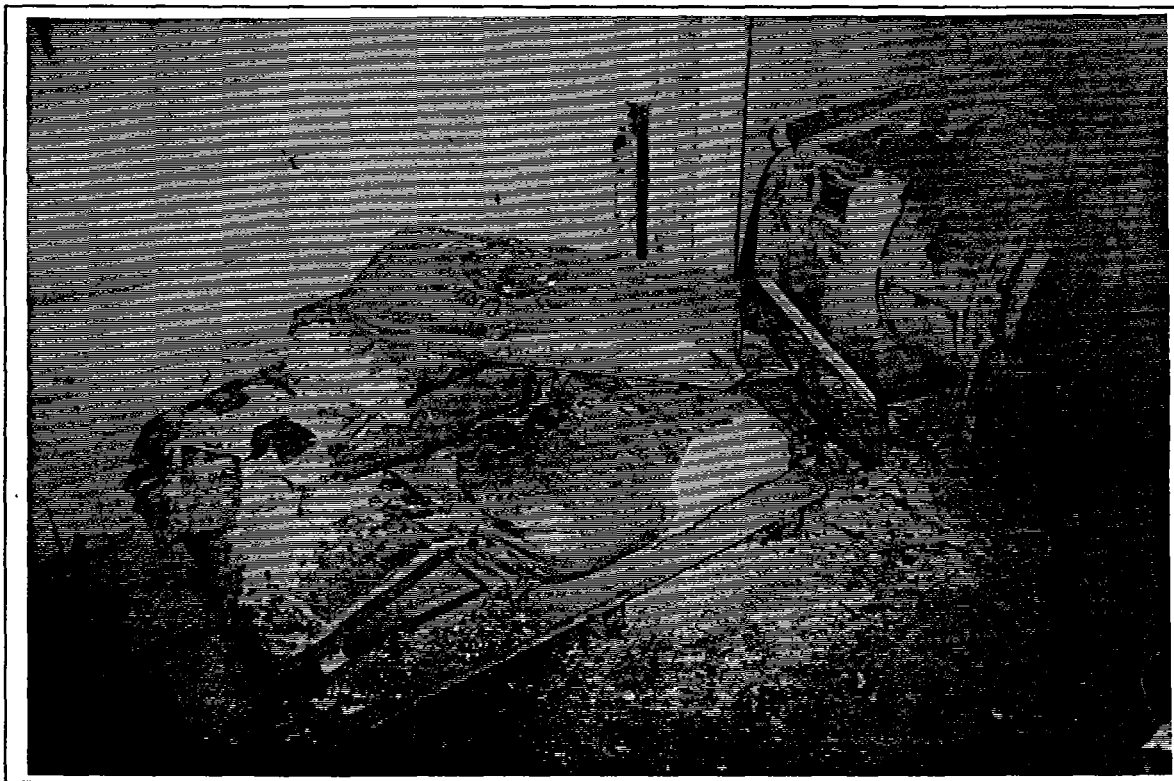


Photo 56 - Building 30A - Asbestos mortar found inside building and sampled in Sample No. 1-042.

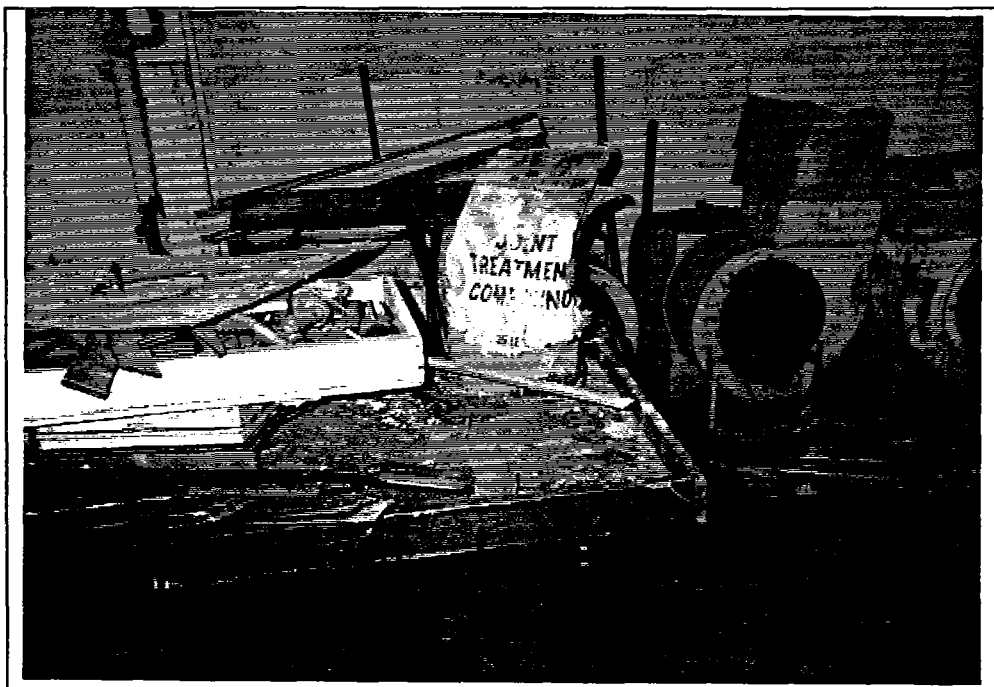


Photo 57 - Building 30A - Bag of non-asbestos joint compound sampled in Sample No. 1-041.

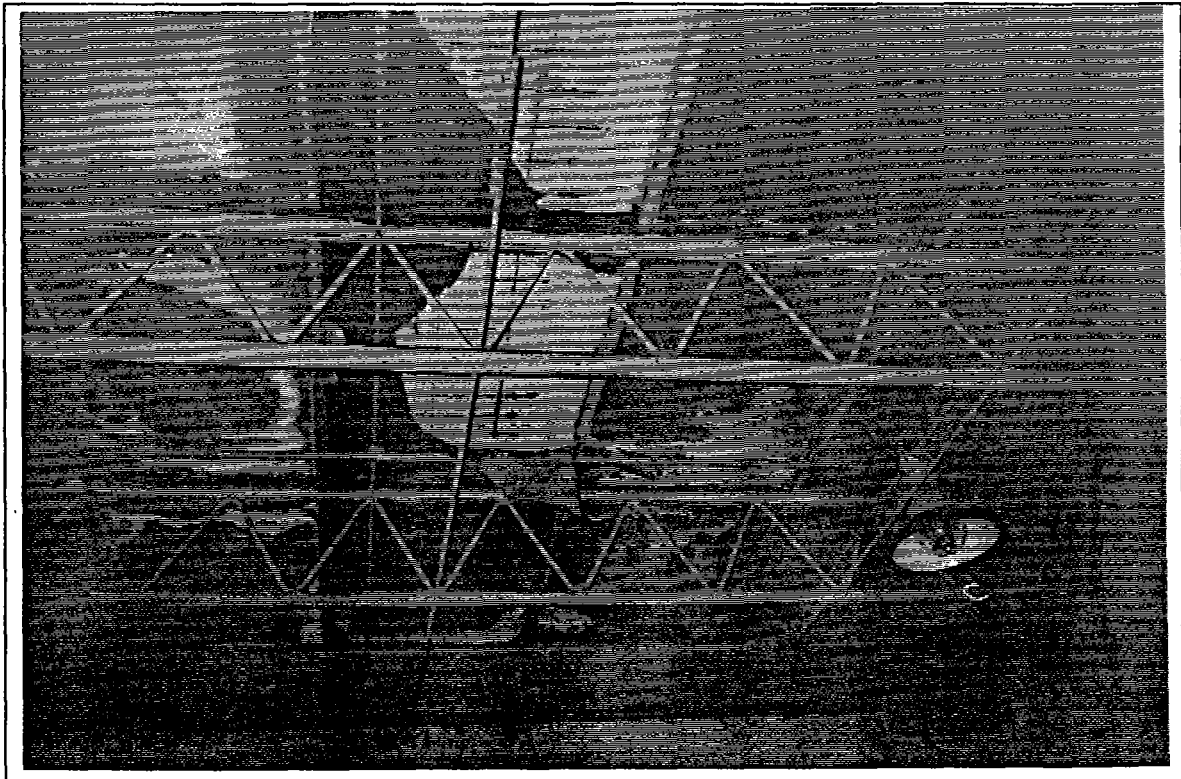


Photo 58 - Building 30A - Interior of concrete panel ceiling. Note deterioration due to water infiltration (Sample No. 1-044).

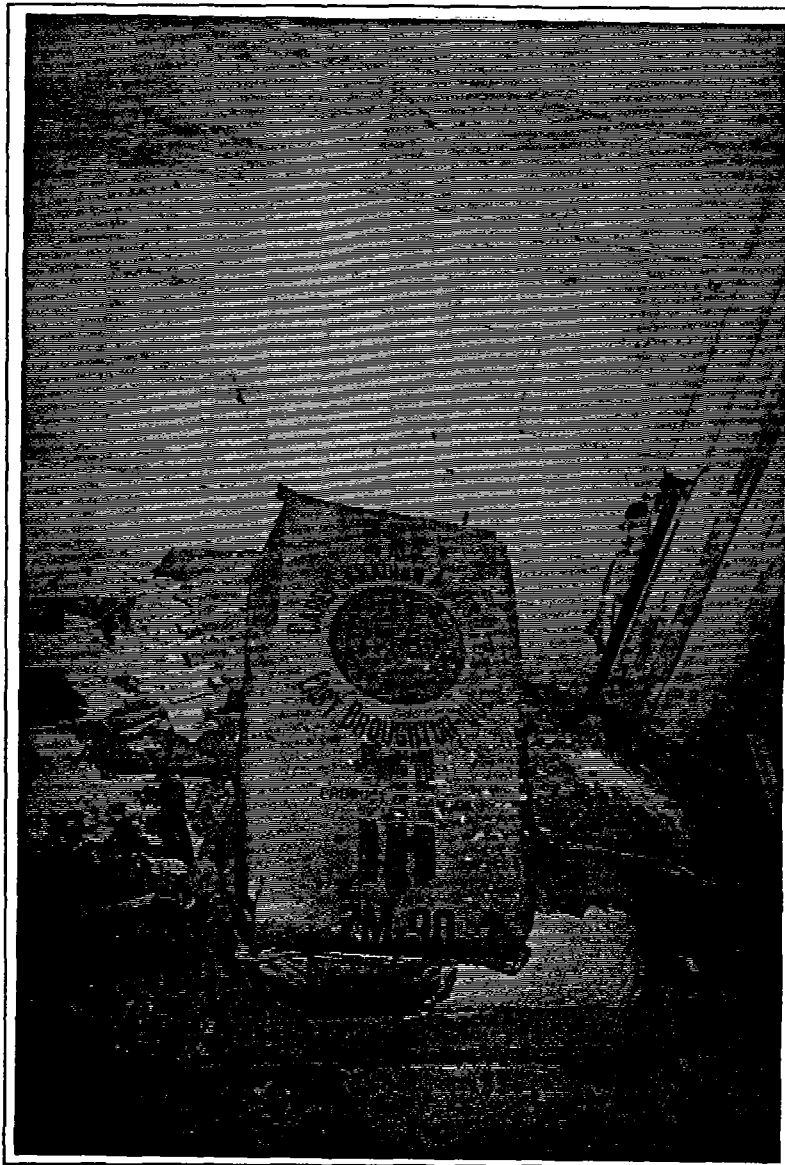


Photo 59 - Building 30A - Asbestos mortar found inside building and sampled in Sample No. 1-042.



Photo 60 - Building 30A - Asbestos mortar found inside building and sampled in Sample No. 1-042.

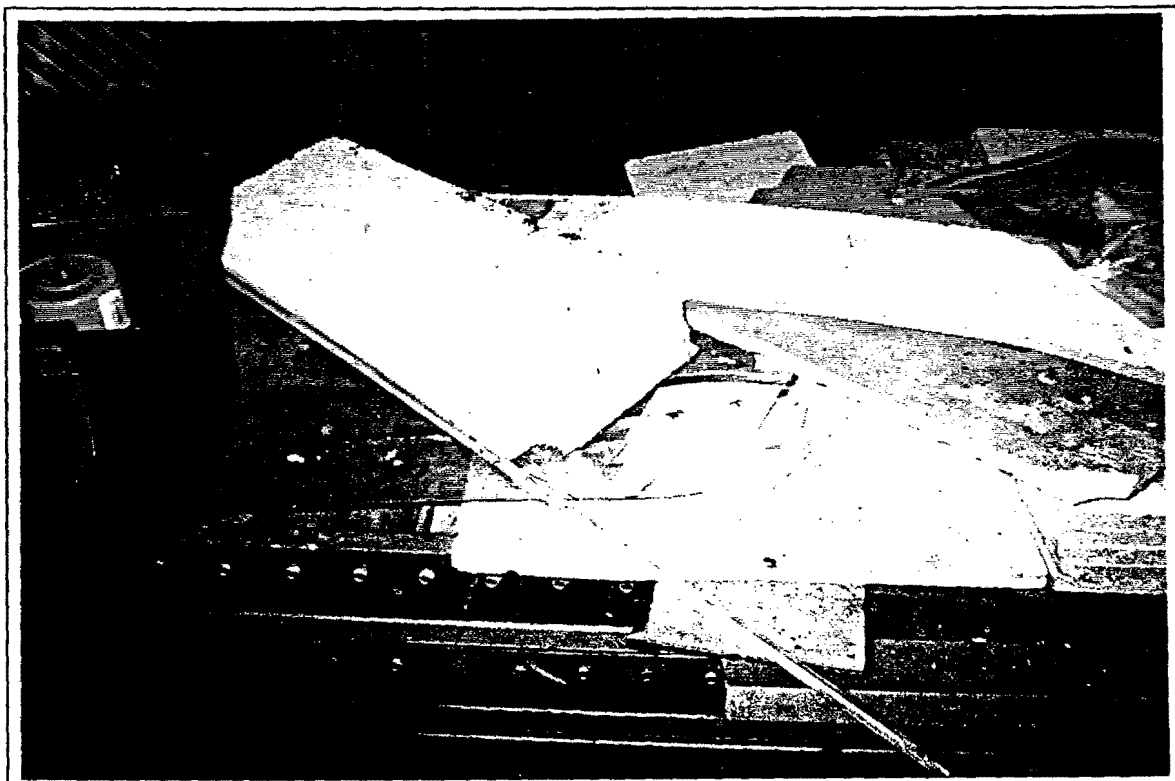


Photo 61 - Building 30A - Pre-cut non-asbestos ceiling tile panels found in box within building interior (Sample No. 1-040).

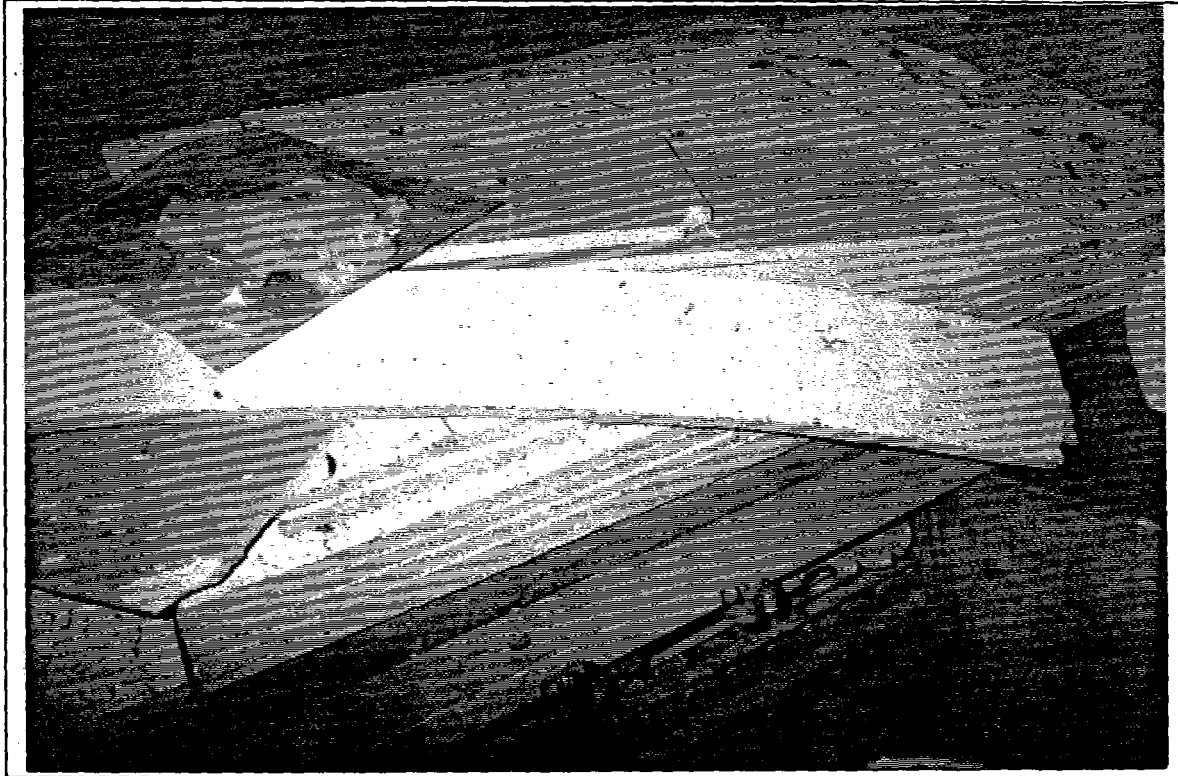


Photo 62 - Building 30A - Non-asbestos ceiling tile removed from building interior (Sample No. 1-039).

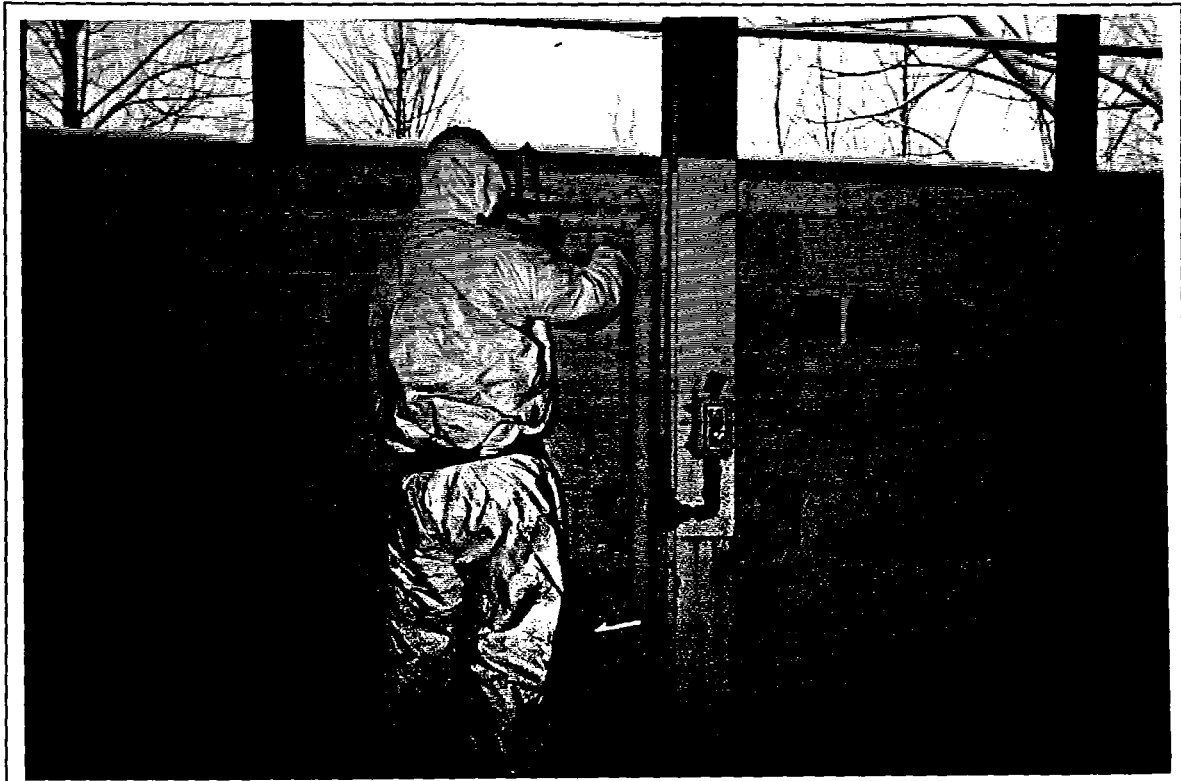


Photo 63 - Building 30A - Pipe elbow where Sample No. 1-045 was taken.



Photo 64 - Building 30A - Photo of wood panel from which asbestos mastic Sample No. 1-046 was taken.



Photo 65 - Building 30A - Building exterior, north side of building where large amount of accumulated debris has been placed. Unclear if any consists of ACM.

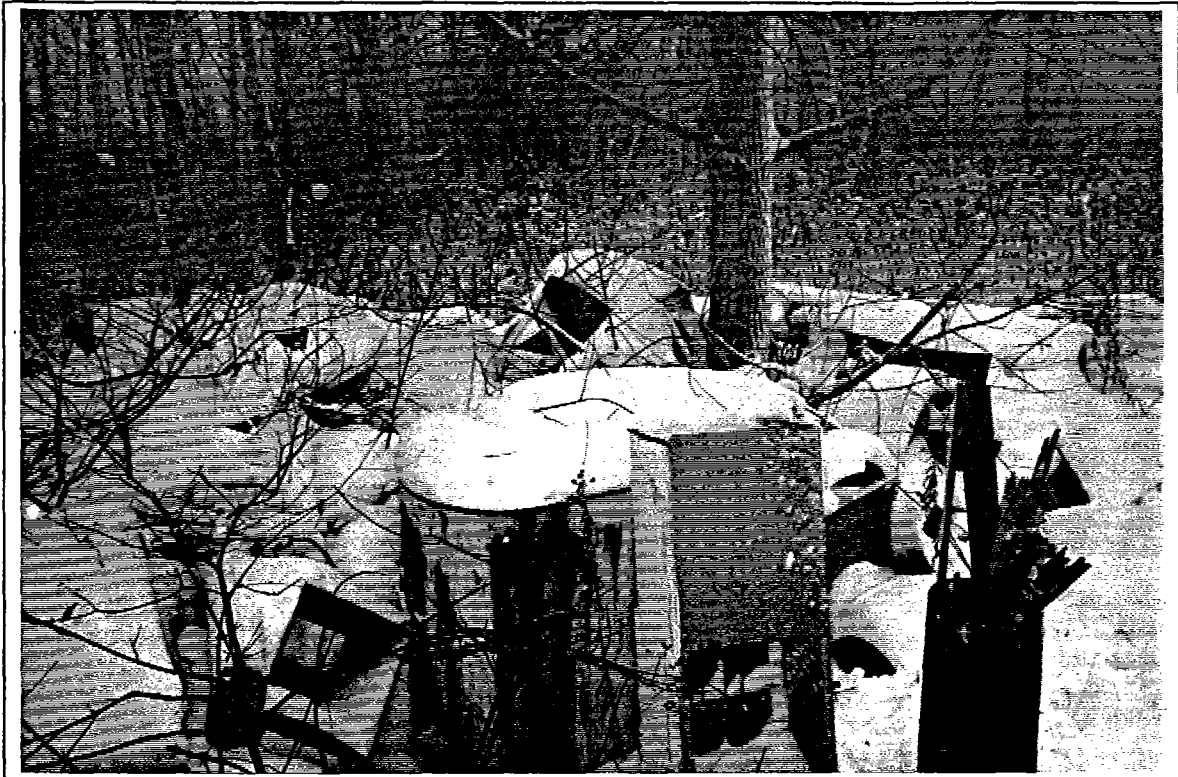


Photo 66 - Building 30A - Building exterior, north side of building where large amount of accumulated debris has been placed. Unclear if any consists of ACM.

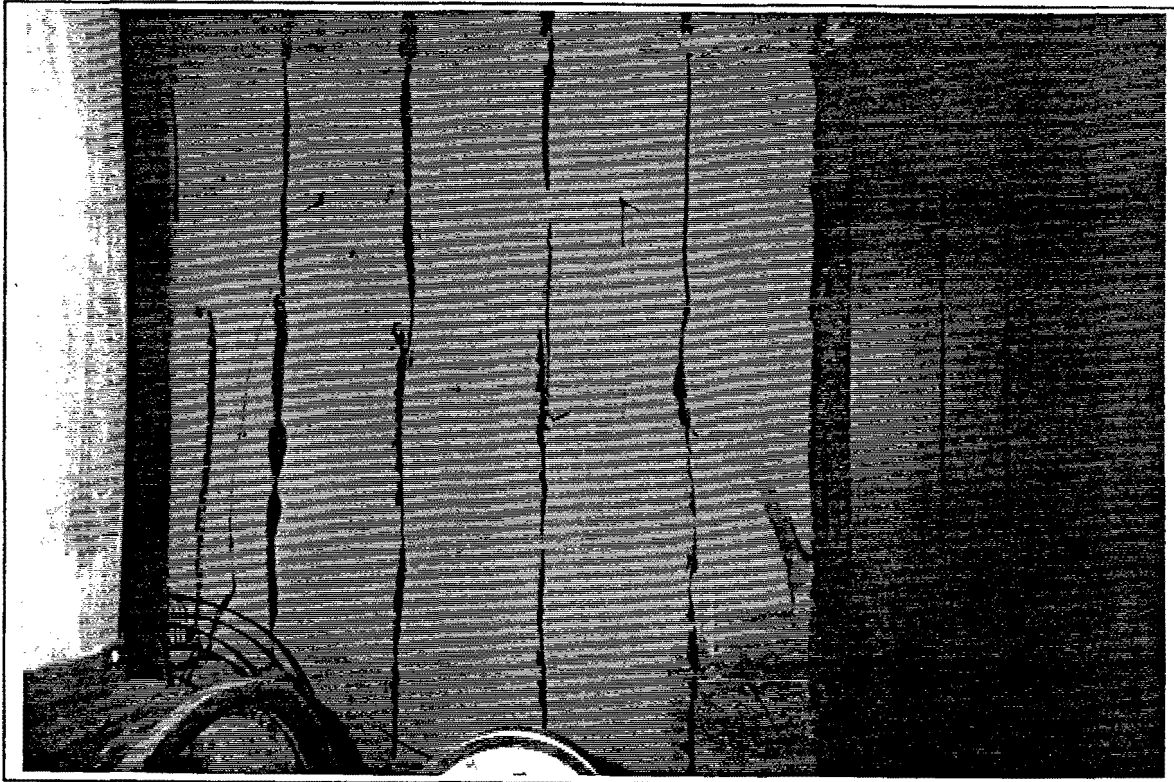


Photo 67 - Building 31 - Asbestos paneling mastic on north side wall where Sample No. 1-055 was taken.

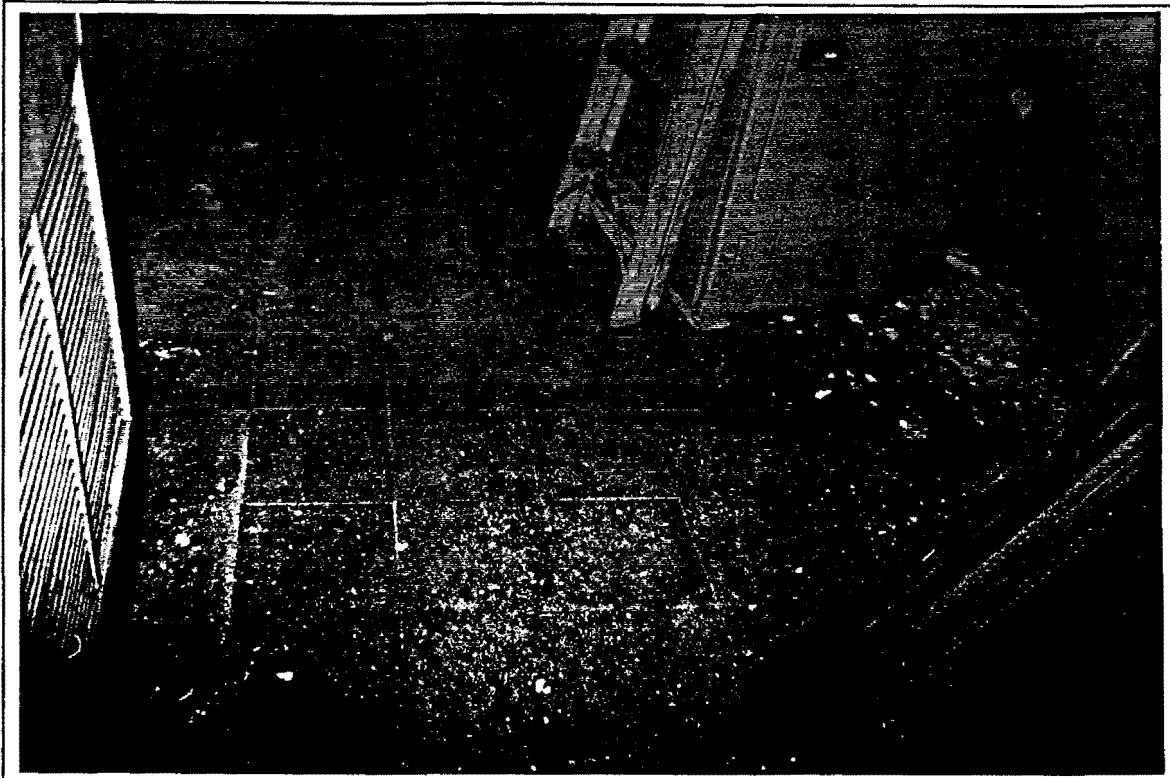


Photo 68 - Building 31 - 12 inch x 12 inch "alligator" pattern vinyl tile from northeast corner room (Sample No. 1-056).

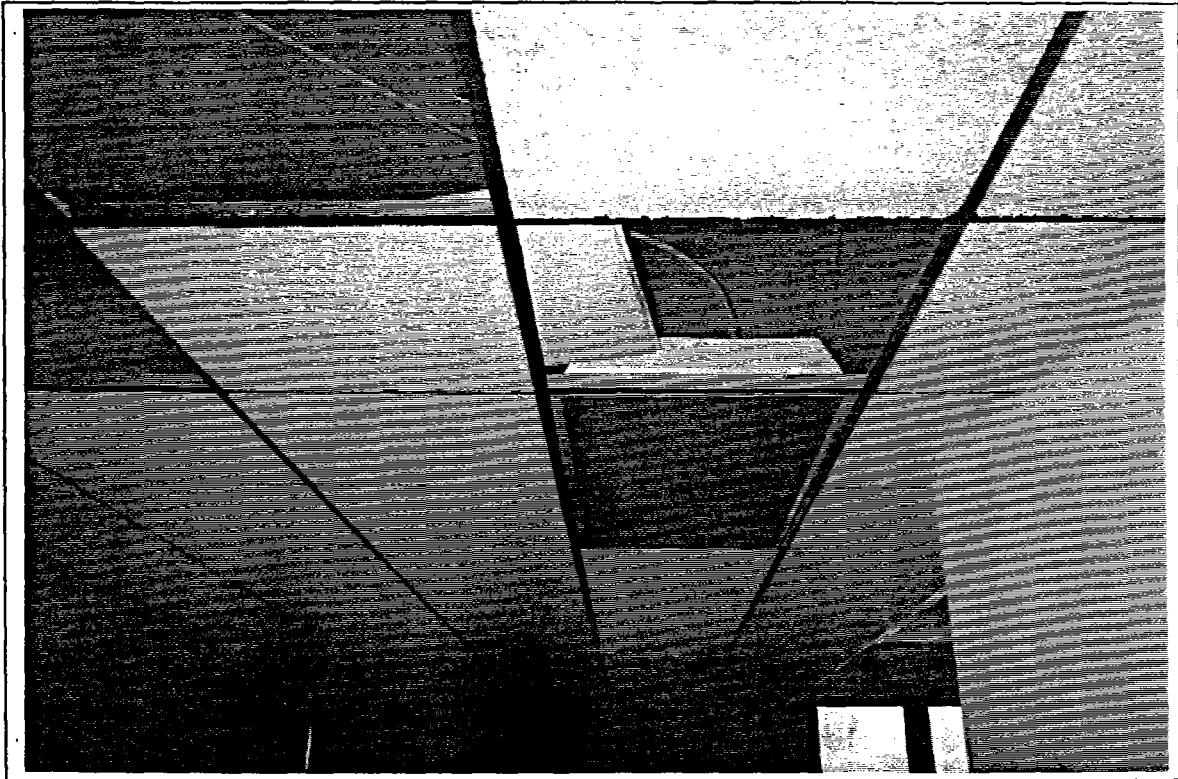


Photo 69 - Building 31 - 2 ft x 2 ft non-asbestos ceiling tile from south side office (Sample No. 1-057).

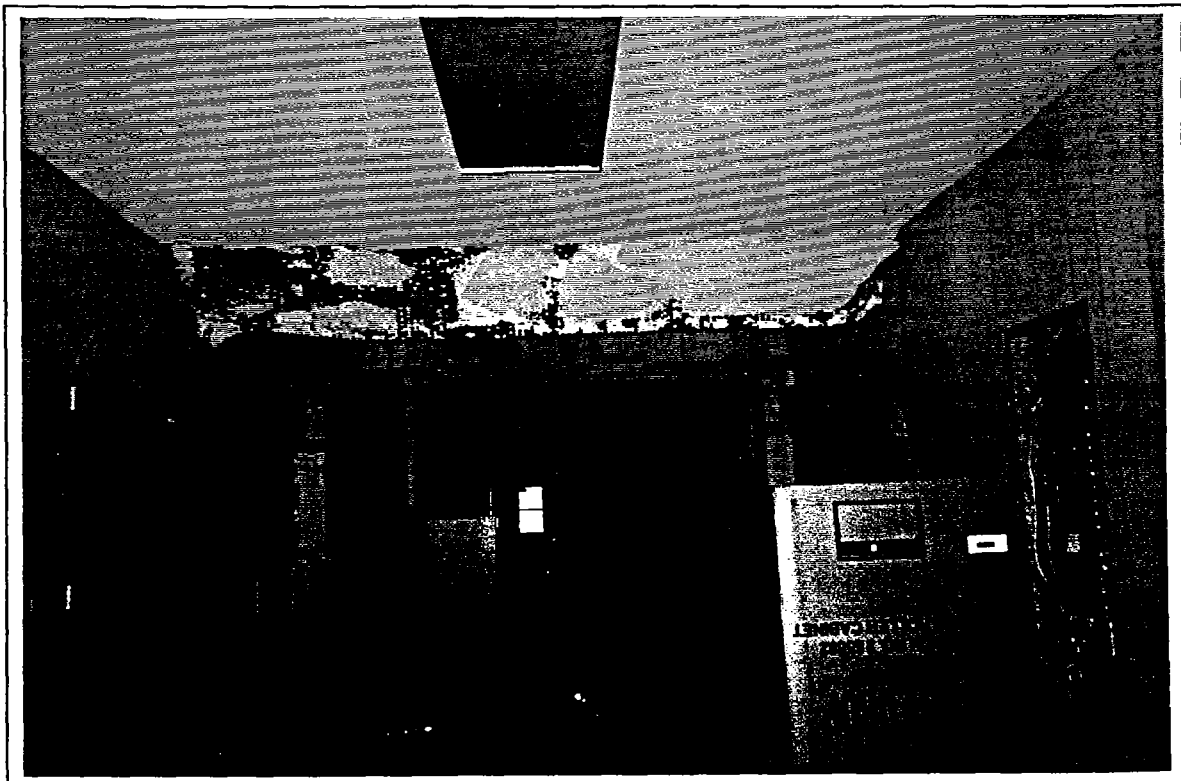


Photo 70 - Building 31 - Deteriorating plaster ceiling in main corridor (Sample No. 1-058).

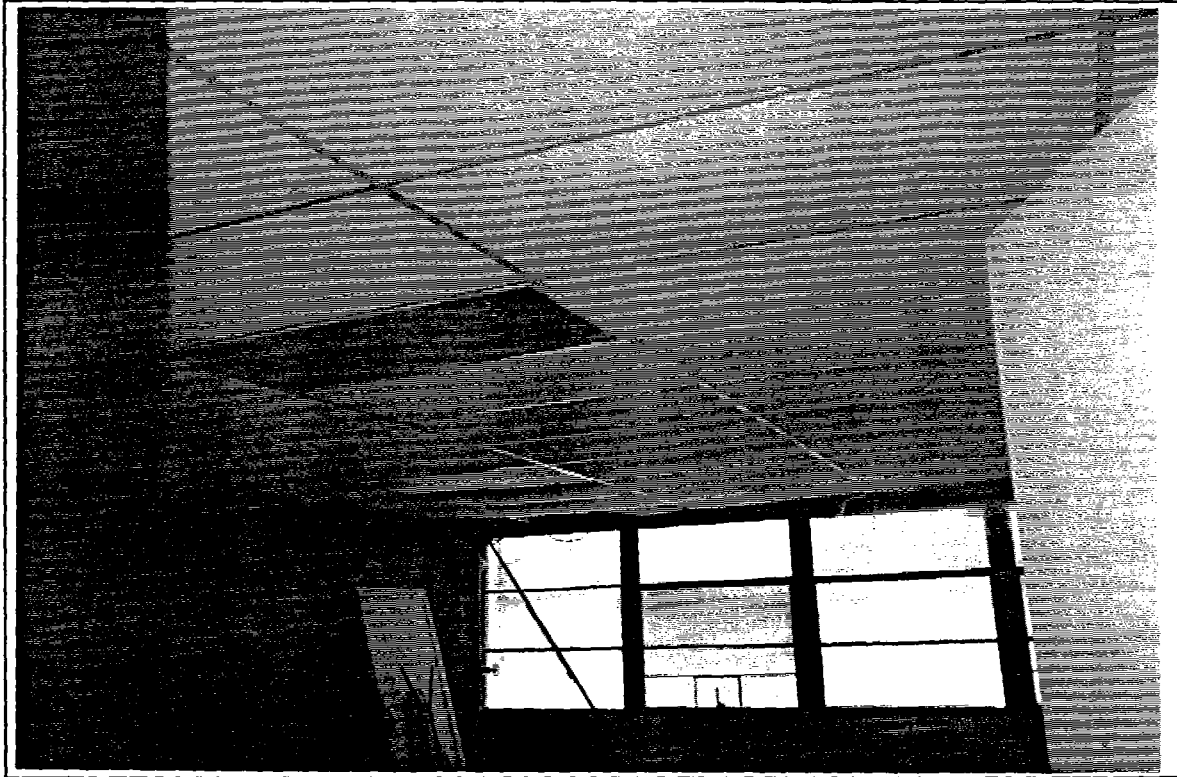


Photo 71 - Building 31 - 2 ft x 4 ft non-asbestos white ceiling tile from south side office (Sample No. 1-059).



Photo 72 - Building 31 - 4-inch black non-asbestos cove base in northwest corner room (Sample No. 1-060).

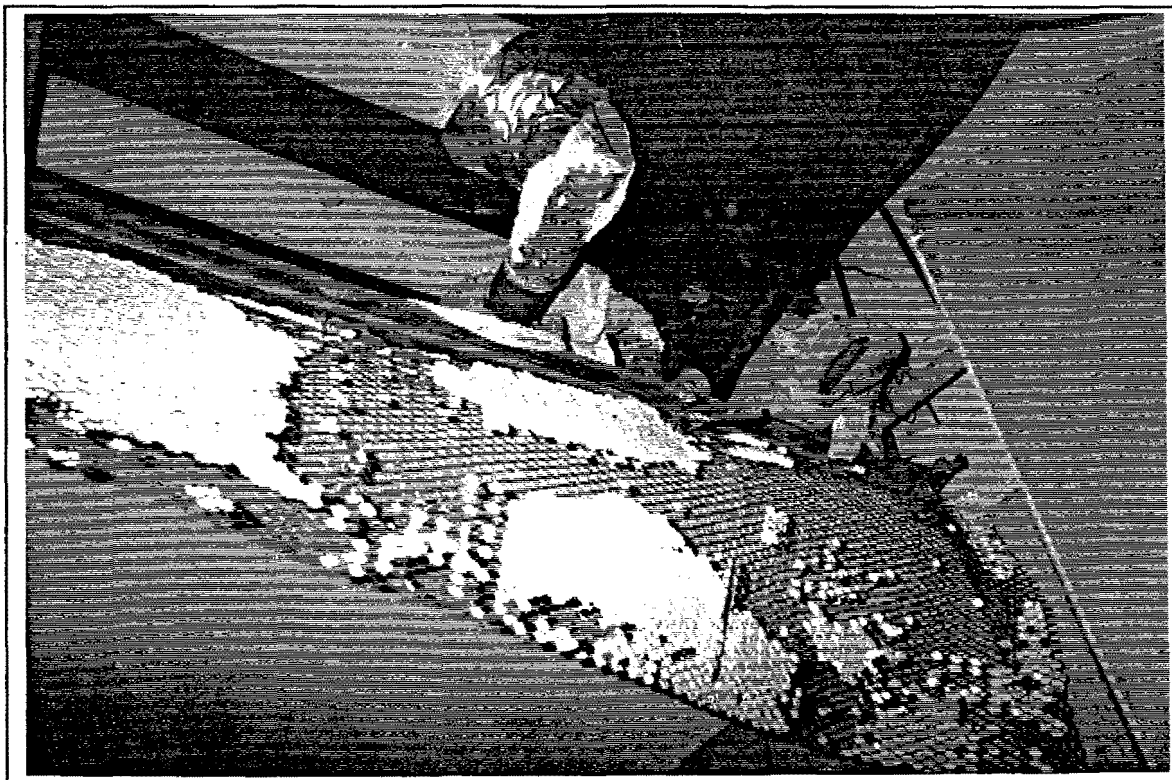


Photo 73 - Building 31 - Asbestos-containing plaster elbow insulation taken from above plaster ceiling in main corridor (Sample No. 1-061).

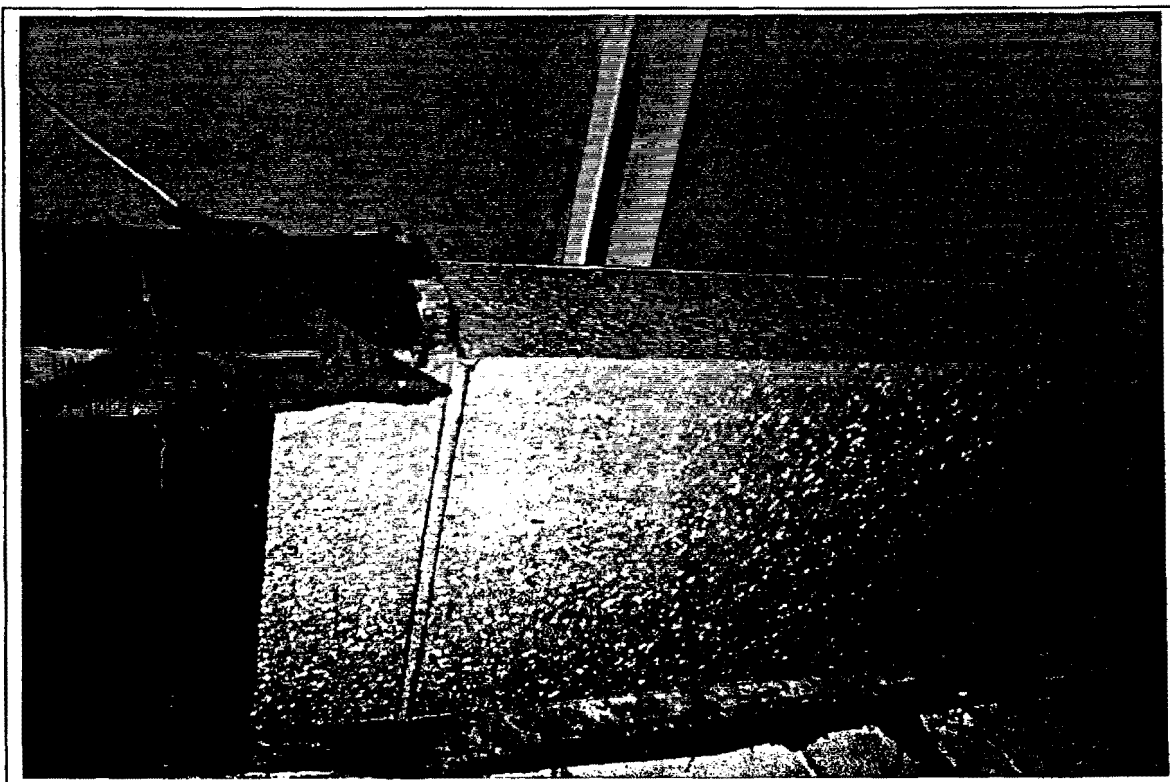


Photo 74 - Building 31 - Galvanized ductwork non-asbestos TSI paper taken from main corridor (Sample No. 1-062).

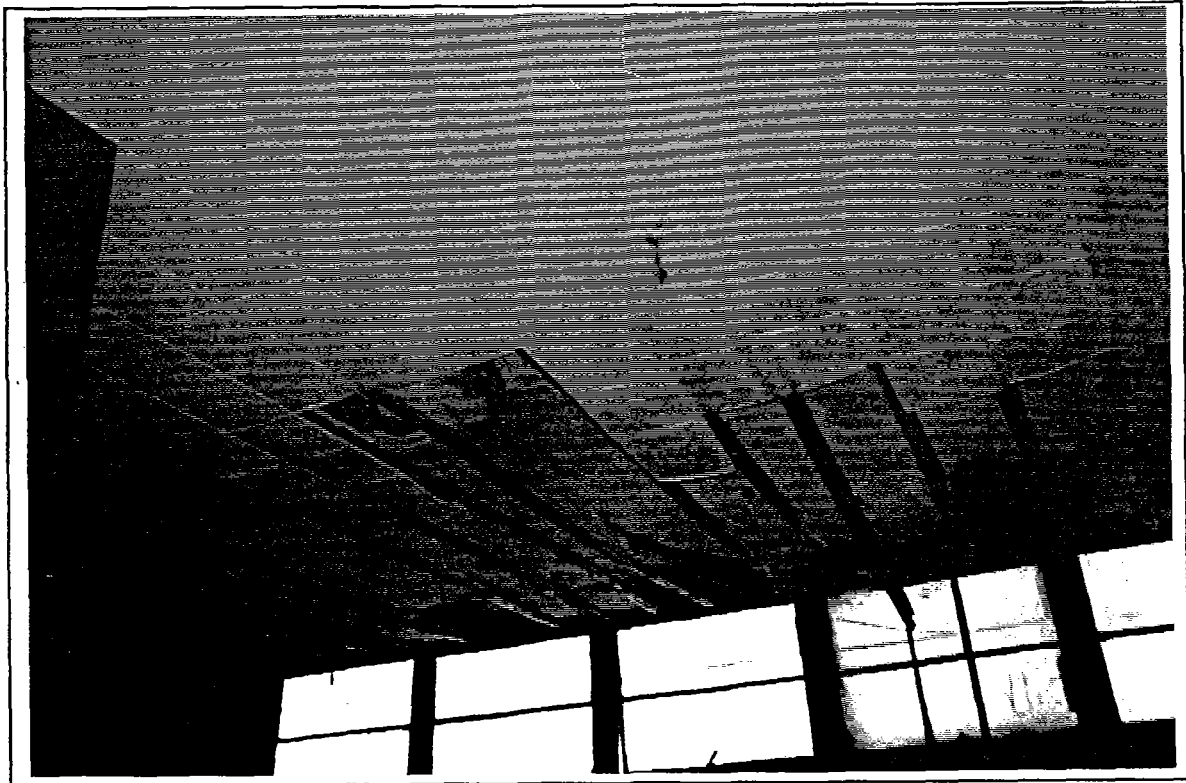


Photo 75 - Building 31 - 12 inch x 12 inch tongue-in-groove non-asbestos ceiling tile from room on north side of building. Tile as well as plaster ceiling above and concrete roof panels have all collapsed into building at this location (Sample No. 1-063).

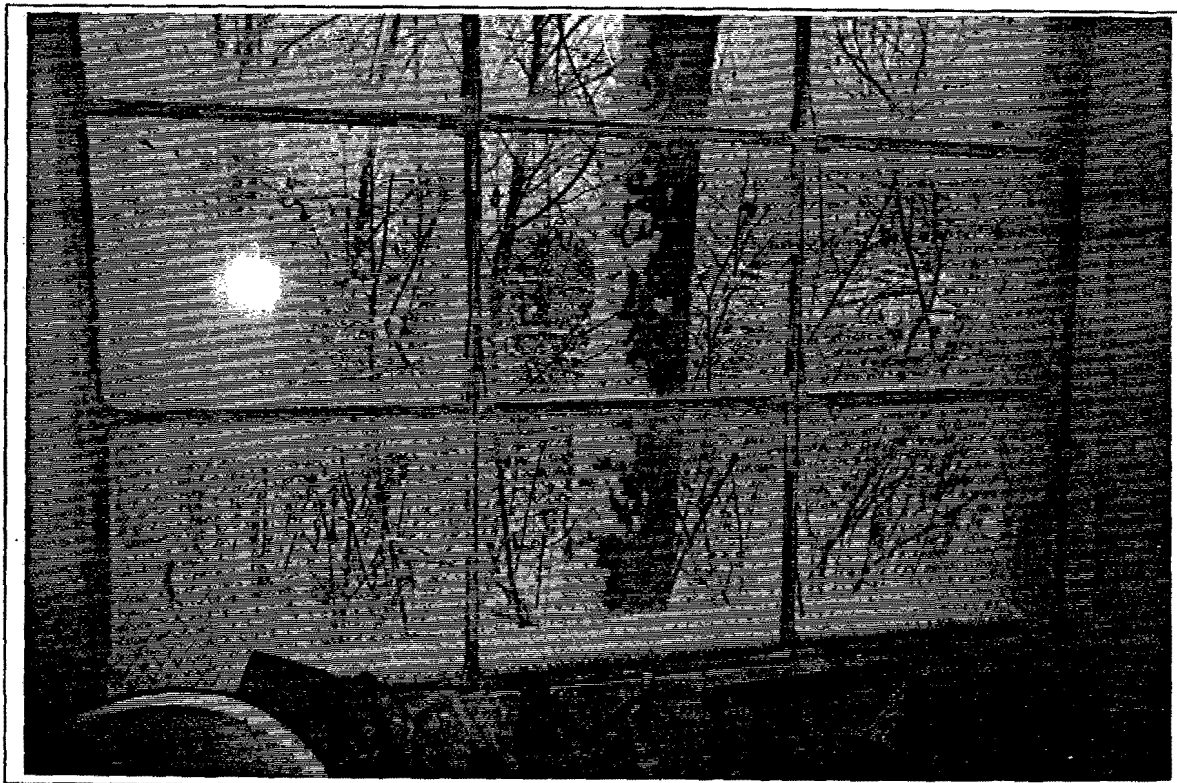


Photo 76 - Building 3 - West side window where Sample No. 1-053 was taken. Sample analyzed negative for asbestos.

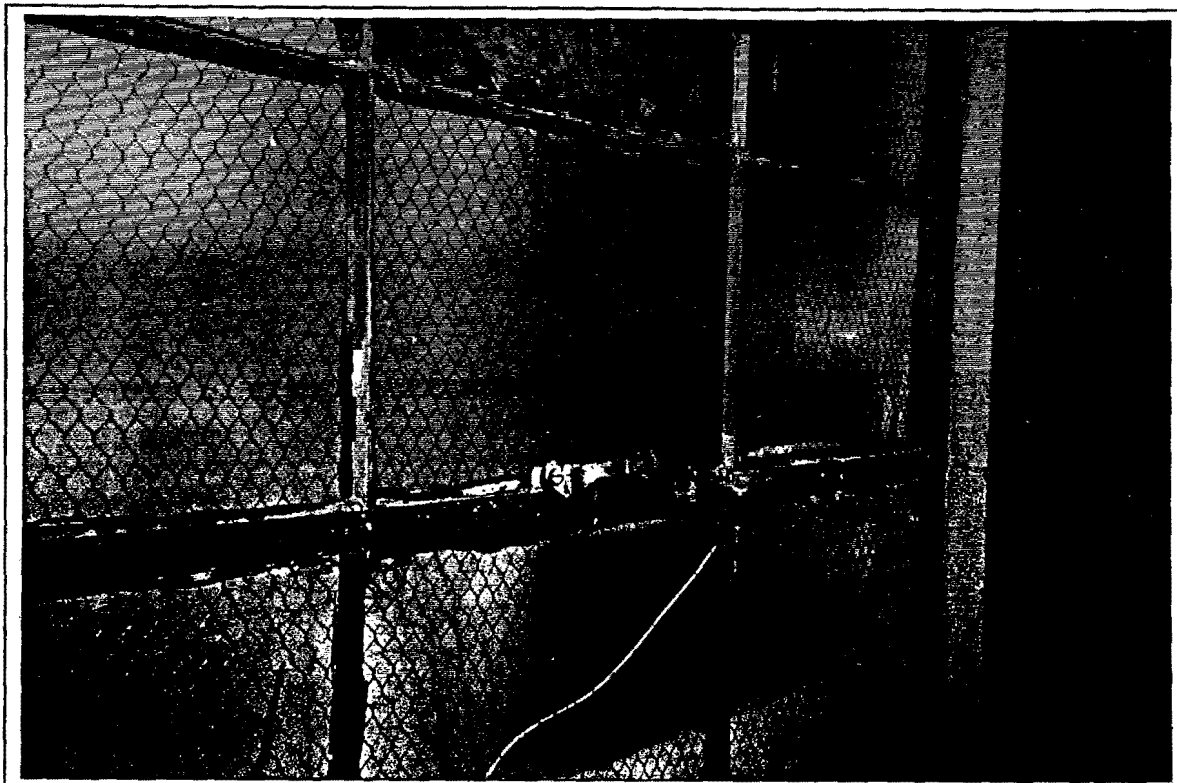


Photo 77 - Building 5 - North side window where Sample No. 1-054 was taken. Sample analyzed negative for asbestos.

LOOW - MISCELLANEOUS EXTERIOR LOCATIONS

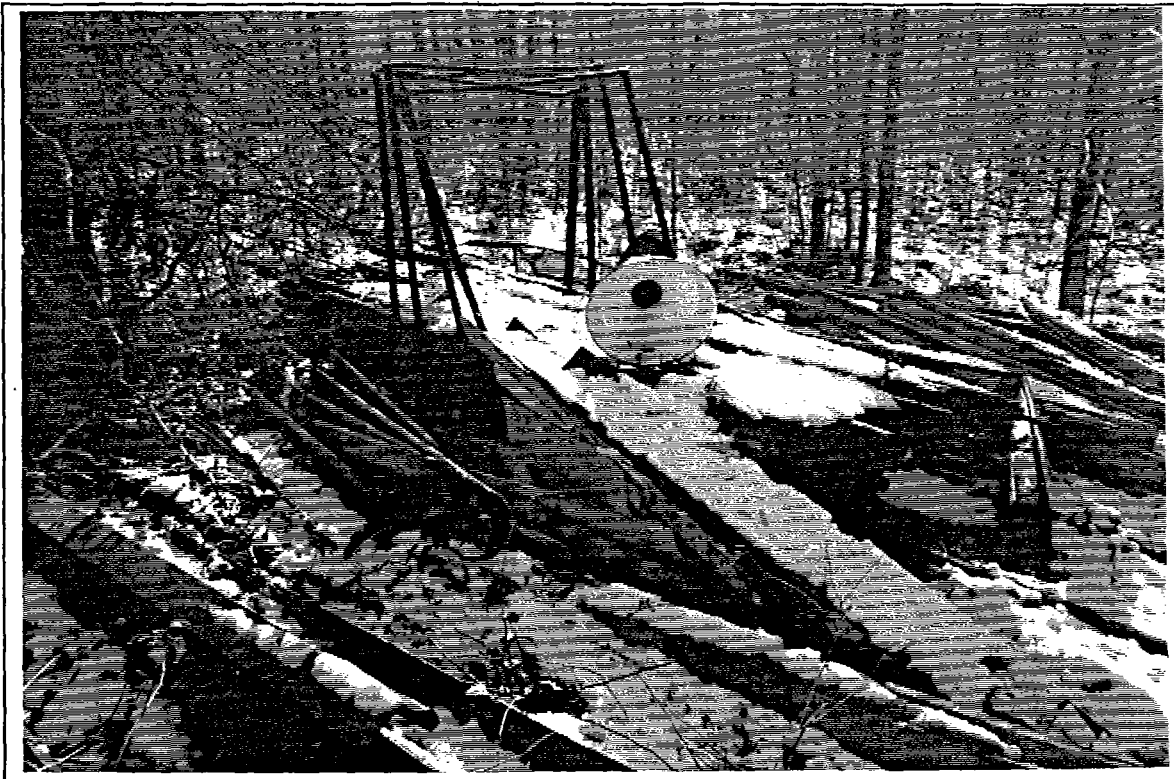


Photo 78 - Area T-2 - Large corrugated asbestos transite panels and semi-circular transite lap panels accumulated in this area.



Photo 79 - Area T-2 - Large corrugated asbestos transite panels accumulated in this area.

LOOW - MISCELLANEOUS EXTERIOR LOCATIONS



Photo 80 - Vicinity of Building 5-01 (looking west). Large accumulation of metal scrap and asbestos TSI wrapped piping deposited here. TSI has deteriorated due to weather exposure and has fallen from piping onto the ground.



Photo 81 - Vicinity of Building 5-01, looking north.

LOOW - MISCELLANEOUS EXTERIOR LOCATIONS

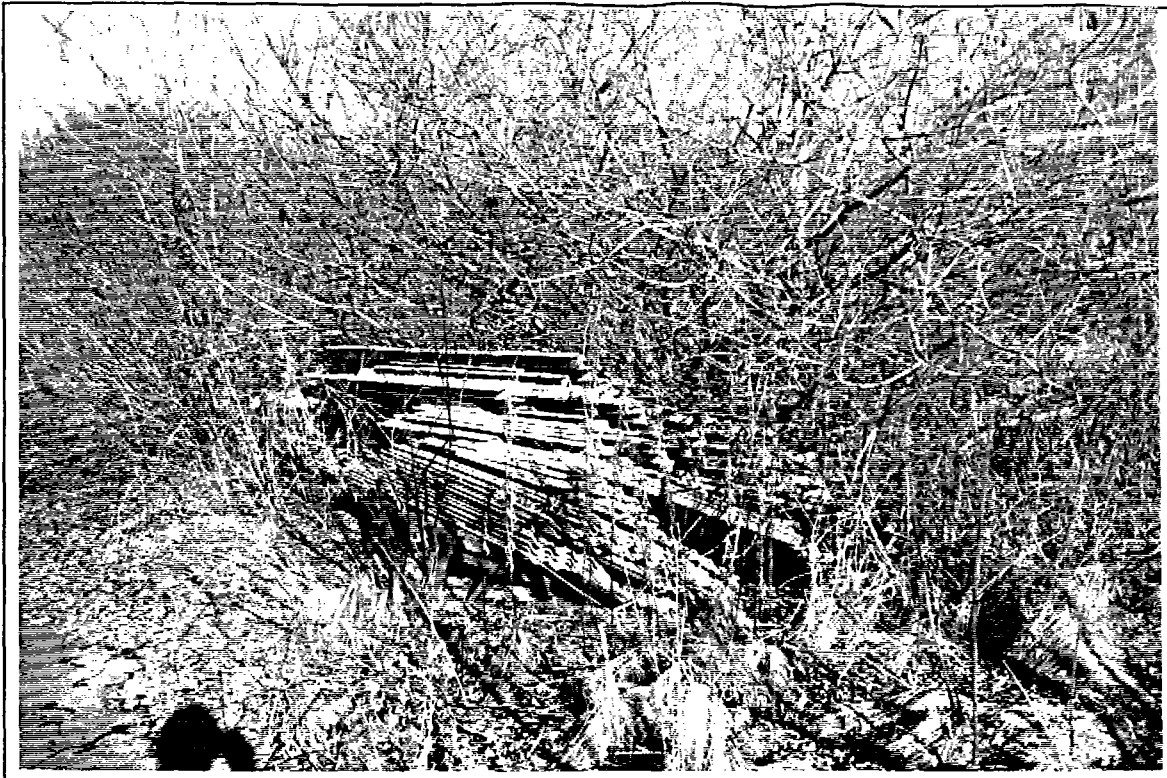


Photo 82 - Vicinity of Building 3-01. North side of Building 3-01 looking west. Accumulation of large corrugated asbestos transite panels.



Photo 83 - Vicinity of Building 3-01. West side of Building 3-01 looking west. Large construction and demolition debris.

LOOW - MISCELLANEOUS EXTERIOR LOCATIONS



Photo 84 - Vicinity of Building 3-01. West side of tank farm adjacent to Building 3-01 looking east. Tank farm was found to be littered with large amounts of asbestos pipe TSI which has fallen from pipes and has been covered by soil.

LOOW - MISCELLANEOUS EXTERIOR LOCATIONS



Photo 85 - Vicinity of Building 3-01. Same as Photo 84 above, looking southwest.

LOOW - MISCELLANEOUS EXTERIOR LOCATIONS



Photo 86 - Vicinity of Building 3-01. Same as Photos 84 and 85, looking north.



Photo 87 - Vicinity of Building 3-01. Same as Photos 84 and 85, looking northwest.

LOOW - MISCELLANEOUS EXTERIOR LOCATIONS



Photo 88 - Photo of pipe bridge spanning ditch along west side property line looking south.



Photo 89 - Photo of pipe bridge spanning ditch along west side property line looking northwest.

LOOW - MISCELLANEOUS EXTERIOR LOCATIONS



Photo 90 - Photo of pipe bridge spanning ditch along west side property line looking west.

Appendix B

Analytical Results Chopra-Lee, Inc.

Laboratory Report

Client: **ACRES International**
140 John James Audubon Pkwy.
Amherst, NY 14228

Attention: **Anthony Dell'Isola**
Project Ref #
Purchase Order # **P11760.00**
Project: **Bulk Samples for Asbestos Analysis**
Somerset Group Property

Laboratory Project # **NY711281**
Project Manager: **Paul Chopra**
Start Date: **11/21/97**
Report Date: **12/8/97**
Analysis Type: **Bulk Asbestos Analysis by Polarized Light Microscopy**

Authorized Signature _____
Paul S. Chopra, Laboratory Manager

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
The following 193 samples were submitted by ACRES International on 11/24/97 and analyzed in accordance with PLM - ELAP Method 198.1						
1-001A	331414	SE corner on floor bldg 6-01	Mortar			PF 12/7/97
		100% White powder	No Asbestos Detected using PLM	16% Fiberglass	84% Non-Fibrous Material	
No asbestos detected in sample						
1-001B	331415	SE corner on floor bldg 6-01	Mortar			PF 12/7/97
		100% White powder	No Asbestos Detected using PLM	13% Fiberglass	87% Non-Fibrous Material	
No asbestos detected in sample						
1-001C	331416	SE corner on floor bldg 6-01	Mortar			PF 12/7/97
		100% White powder	No Asbestos Detected using PLM	15% Cellulose	85% Non-Fibrous Material	
No asbestos detected in sample						
1-002A	331417	E half bldg 6-01 (picked up off floor)	Pipe insulation			PF 12/7/97
		100% White fibrous	16% Chrysotile 22% Amosite	15% Fiberglass	47% Non-Fibrous Material	
38% asbestos in composite sample						
1-002B	331418	E half bldg 6-01 (picked up off floor)	Pipe insulation			PF 12/7/97
		100% White fibrous	15% Chrysotile 24% Amosite	21% Fiberglass	40% Non-Fibrous Material	
39% asbestos in composite sample						



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Report Date: 12/8/97
Laboratory # NY711281
Client: ACRES International

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
1-002C	331419	E half bldg 6-01 (picked up off floor)	Pipe insulation	100% White fibrous	17% Chrysotile 21% Amosite 17% Fiberglass 45% Non-Fibrous Material	PF 12/7/97
				38% asbestos in composite sample		
1-003A	331420	Cinder block office bldg 6-01	White powder	100% White fibrous	28% Chrysotile 20% Amosite 52% Non-Fibrous Material	PF 12/7/97
				48% asbestos in composite sample		
1-003B	331421	Cinder block office bldg 6-01	White powder	100% White fibrous	25% Chrysotile 17% Amosite 58% Non-Fibrous Material	PF 12/7/97
				42% asbestos in composite sample		
1-003C	331422	Cinder block office bldg 6-01	White powder	100% White fibrous	24% Chrysotile 21% Amosite 55% Non-Fibrous Material	PF 12/7/97
				45% asbestos in composite sample		
1-004A	331423	From floor center E-wing bldg 6-01	Vitreous pipe	100% Gray granular	No Asbestos Detected using PLM 2% Cellulose 98% Non-Fibrous Material	PF 12/7/97
				No asbestos detected in sample		
1-004B	331424	From floor center of E-wing bldg 6-01	Vitreous pipe	100% Gray granular	No Asbestos Detected using PLM 100% Non-Fibrous Material	PF 12/7/97
				No asbestos detected in sample		
1-004C	331425	From floor center of E-wing bldg 6-01	Vitreous pipe	100% Gray granular	No Asbestos Detected using PLM 1% Cellulose 9% Non-Fibrous Material	PF 12/7/97
				No asbestos detected in sample		
1-005A	331426	E-wing bldg 6-01 center of floor	White fibrous debris	100% White fibrous	26% Chrysotile 16% Fiberglass 58% Non-Fibrous Material	PF 12/7/97
				26% asbestos in composite sample		
1-005B	331427	E-wing bldg 6-01 center of floor	White fibrous debris	100% White fibrous	21% Chrysotile 15% Fiberglass 64% Non-Fibrous Material	PF 12/7/97
				21% asbestos in composite sample		



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Client ACRES International

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
1-005C	331428	E-wing bldg 6-01 center of floor	White fibrous debris	27% Chrysotile	20% Fiberglass 53% Non-Fibrous Material	PF 12/7/97
			100% White fibrous			
			27% asbestos in composite sample			
1-006A	331429	N end E-wing bldg 6-01 floor	Pipe elbows (1 1/2")	No Asbestos Detected using PLM	64% Fiberglass 36% Non-Fibrous Material	PF 12/7/97
			100% Gray fibrous			
			No asbestos detected in sample			
1-006B	331430	N end E-wing bldg 6-01 floor	Pipe elbows (1 1/2")	No Asbestos Detected using PLM	59% Fiberglass 41% Non-Fibrous Material	PF 12/7/97
			100% Gray fibrous			
			No asbestos detected in sample			
1-006C	331431	N end E-wing bldg 6-01 floor	Pipe elbows (1 1/2")	No Asbestos Detected using PLM	68% Fiberglass 32% Non-Fibrous Material	PF 12/7/97
			100% Gray fibrous			
			No asbestos detected in sample			
1-007A	331432	N end W-wing bldg 6-01 (in drums / on floor)	Electrical insulator	No Asbestos Detected using PLM	100% Non-Fibrous Material	PF 12/7/97
			100% White solid			
			No asbestos detected in sample			
1-007B	331433	N end W-wing bldg 6-01 (in drums / on floor)	Electrical insulator	No Asbestos Detected using PLM	100% Non-Fibrous Material	PF 12/7/97
			100% White solid			
			No asbestos detected in sample			
1-007C	331434	N end W-wing bldg 6-01 (in drums / on floor)	Electrical insulator	No Asbestos Detected using PLM	100% Non-Fibrous Material	PF 12/7/97
			100% White solid			
			No asbestos detected in sample			
1-008A	331435	On floor W-wing bldg 6-01	Transite panels	34% Chrysotile	16% Fiberglass 50% Non-Fibrous Material	PF 12/7/97
			100% Gray transite			
			34% asbestos in composite sample			
1-008B	331436	On floor W-wing bldg 6-01	Transite panels	28% Chrysotile	17% Fiberglass 55% Non-Fibrous Material	PF 12/7/97
			100% Gray transite			
			28% asbestos in composite sample			



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Client: ACRES International

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Asbestos Content	Analyst Comment	Analyst - Date	
		Material Description(s)		Non-Asbestos Content		
1-008C	331437	On floor W-wing bldg 6-01	Transite panels		PF 12/7/97	
		100% Gray transite	32% Chrysotile	20% Fiberglass 48% Non-Fibrous Material		
		32% asbestos in composite sample				
2-009A	331438	Across entire structure	Transite panels		PF 12/7/97	
		100% Gray transite	36% Chrysotile	15% Fiberglass 49% Non-Fibrous Material		
		36% asbestos in composite sample				
2-009B	331439	Across entire structure	Transite panels		PF 12/7/97	
		100% Gray transite	33% Chrysotile	20% Fiberglass 47% Non-Fibrous Material		
		33% asbestos in composite sample				
2-009C	331440	Across entire structure	Transite panels		PF 12/7/97	
		100% Gray transite	30% Chrysotile	17% Fiberglass 53% Non-Fibrous Material		
		30% asbestos in composite sample				
2-010A7	331441	N-end bldg 6-01, 1st floor roof	Flashing		PF 12/7/97	
		100% Black flashing	18% Chrysotile	34% Cellulose 20% Fiberglass 28% Non-Fibrous Material		
		18% asbestos in composite sample - NOB Material				
2-010B	331442	N end bldg 6-01 1st floor roof	Flashing		PF 12/7/97	
		100% Black flashing	21% Chrysotile	36% Cellulose 16% Fiberglass 27% Non-Fibrous Material		
		21% asbestos in composite sample - NOB Material				
2-010C	331443	N end bldg 6-01 1st floor roof	Flashing		PF 12/7/97	
		100% Black flashing	17% Chrysotile	31% Cellulose 18% Fiberglass 34% Non-Fibrous Material		
		17% asbestos in composite sample - NOB Material				
2-011A	331444	Bldg 6-01	Seam wrap		PF 12/7/97	
		100% Black solid	No Asbestos Detected using PLM	21% Cellulose 79% Non-Fibrous Material		
		No asbestos detected in sample - NOB Material				
2-011B	331445	Bldg 6-01	Seam wrap		PF 12/7/97	
		100% Black solid	No Asbestos Detected using PLM	29% Cellulose 71% Non-Fibrous Material		
		No asbestos detected in sample - NOB Material				



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Client: ACRE'S International

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Asbestos Content	Analyst Comment	Analyst - Date
2-011C	331446	Bldg 6-01 Seam wrap			PF 12/7/97
		100% Black solid	No Asbestos Detected using PLM	17% Cellulose 83% Non-Fibrous Material	
No asbestos detected in sample - NOB Material					
2-012A	331447	Bldg 6-01 scattered	Chalk		PF 12/7/97
		100% Gray caulk	5% Chrysotile	8% Cellulose 87% Non-Fibrous Material	
5.0% asbestos in composite sample					
2-012B	331448	Bldg 6-01 scattered	Chalk		PF 12/7/97
		100% Gray caulk	4% Chrysotile	7% Cellulose 89% Non-Fibrous Material	
4.0% asbestos in composite sample					
2-012C	331449	Bldg 6-01 scattered	Chalk		PF 12/7/97
		100% Gray caulk	5% Chrysotile	9% Cellulose 86% Non-Fibrous Material	
5.0% asbestos in composite sample					
2-013A	331450	Bldg 6-01 Floor			PF 12/7/97
		100% Gray caulk	No Asbestos Detected using PLM	1% Cellulose 99% Non-Fibrous Material	
No asbestos detected in sample					
2-013B	331451	Bldg 6-01 Floor			PF 12/7/97
		100% Gray granular	No Asbestos Detected using PLM	100% Non-Fibrous Material	
No asbestos detected in sample					
2-013C	331452	Bldg 6-01 Floor			PF 12/7/97
		100% Gray granular	No Asbestos Detected using PLM	100% Non-Fibrous Material	
No asbestos detected in sample					
2-014A	331453	Bldg 6-01 windows stored on N end	Window glazing		PF 12/7/97
		100% Gray glaze	No Asbestos Detected using PLM	8% Cellulose 92% Non-Fibrous Material	
No asbestos detected in sample					
2-014B	331454	Bldg 6-01 windows stored on N end	Window glazing		PF 12/7/97
		100% Gray glaze	No Asbestos Detected using PLM	5% Cellulose 95% Non-Fibrous Material	
No asbestos detected in sample					



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Client: AURES International

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
2-014C	331455	Bldg 6-01 windows stored on N end	Window glazing	100% Gray glaze	No Asbestos Detected using PLM 10% Cellulose 90% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-015A	331456	Bldg 6-01 N end on floor	Expansion joint	100% Black fibrous / tar	10% Chrysotile 31% Cellulose 21% Fiberglass 38% Non-Fibrous Material	PF 12/7/97
10% asbestos in composite sample - NOB Material						
1-015B	331457	Bldg 6-01 N end on floor	Expansion joint	100% Black fibrous / tar	7% Chrysotile 33% Cellulose 19% Fiberglass 41% Non-Fibrous Material	PF 12/7/97
7.0% asbestos in composite sample - NOB Material						
1-015C	331458	Bldg 6-01 N end on floor	Expansion joint	100% Black fibrous / tar	12% Chrysotile 29% Cellulose 23% Fiberglass 36% Non-Fibrous Material	PF 12/7/97
12% asbestos in composite sample - NOB Material						
1-016A	331459	Bldg 6-02 floor	Pipe insulation	100% Gray / white fibrous	25% Chrysotile 21% Amosite 15% Fiberglass 39% Non-Fibrous Material	PF 12/7/97
46% asbestos in composite sample						
1-016B	331460	Bldg 6-02 floor	Pipe insulation	100% Gray / white fibrous	21% Chrysotile 20% Amosite 18% Fiberglass 41% Non-Fibrous Material	PF 12/7/97
41% asbestos in composite sample						
1-016C	331461	Bldg 6-02 floor	Pipe insulation	100% Beige / white fibrous	26% Chrysotile 17% Amosite 18% Fiberglass 39% Non-Fibrous Material	PF 12/7/97
43% asbestos in composite sample						
1-017	331462	4' off floor bldg 6-02	Wipe sample	100% Swipe	No Asbestos Detected using PLM 1% Cellulose 2% Fiberglass 97% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-018A	331463	Bldg 6-03 floor	Pipe insulation	100% White fibrous	20% Chrysotile 23% Amosite 13% Fiberglass 44% Non-Fibrous Material	PF 12/7/97
43% asbestos in composite sample						



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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Analyst Comment	Analyst - Date
		Material Description(s)	Asbestos Content	Non-Asbestos Content
1-013D	331464	Bldg 6-03 floor Pipe insulation		PF 12/7/97
		100% White fibrous	21% Chrysotile 20% Amosite	16% Fiberglass 43% Non-Fibrous Material
		41% asbestos in composite sample		
1-018C	331465	Bldg 6-03 floor Pipe insulation		PF 12/7/97
		100% White fibrous	23% Chrysotile 19% Amosite	18% Fiberglass 40% Non-Fibrous Material
		42% asbestos in composite sample		
1-019	331466	4' off floor bldg 6-03 Wipe sample		PF 12/7/97
		100% Swipe	No Asbestos Detected using PLM	8% Fiberglass 92% Non-Fibrous Material
		No asbestos detected in sample		
1-020A	331467	NE corner office bldg #30 Ceiling tile		PF 12/7/97
		100% Beige ceiling tile	No Asbestos Detected using PLM	41% Cellulose 26% Fiberglass 33% Non-Fibrous Material
		No asbestos detected in sample		
1-020B	331468	NE corner office bldg #30 Ceiling tile		PF 12/7/97
		100% Beige ceiling tile	No Asbestos Detected using PLM	44% Cellulose 30% Fiberglass 26% Non-Fibrous Material
		No asbestos detected in sample		
1-020C	331469	NE corner office bldg #30 Ceiling tile		PF 12/7/97
		100% Beige ceiling tile	No Asbestos Detected using PLM	38% Cellulose 31% Fiberglass 31% Non-Fibrous Material
		No asbestos detected in sample		
1-021A	331470	NE corner office bldg #30 Floor tile		PF 12/7/97
		95% Gray floor tile	No Asbestos Detected using PLM	33% Cellulose 8% Fiberglass 59% Non-Fibrous Material
		5% Tan mastic	No Asbestos Detected using PLM	11% Cellulose 89% Non-Fibrous Material
		No asbestos detected in sample - NOB Material		
1-021B	331471	NE corner office bldg #30 Floor tile		PF 12/7/97
		95% Gray floor tile	No Asbestos Detected using PLM	30% Cellulose 6% Fiberglass 64% Non-Fibrous Material
		5% Tan mastic	No Asbestos Detected using PLM	14% Cellulose 86% Non-Fibrous Material
		No asbestos detected in sample - NOB Material		



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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Analyst Comment	Analyst - Date
		Material Description(s)	Asbestos Content	Non-Asbestos Content
1-021C	331472	NE corner office bldg #30 Floor tile		PF 12/7/97
		95% Gray floor tile	No Asbestos Detected using PLM	28% Cellulose 7% Fiberglass 65% Non-Fibrous Material
		5% Tan mastic	No Asbestos Detected using PLM	9% Cellulose 91% Non-Fibrous Material
		No asbestos detected in sample - NOB Material		
1-022A	331473	S center bldg #30 Pipe insulation elbow		PF 12/7/97
		100% Gray / white fibrous	No Asbestos Detected using PLM	71% Fiberglass 29% Non-Fibrous Material
		No asbestos detected in sample		
1-022B	331474	S center bldg #30 Pipe insulation elbow		PF 12/7/97
		100% Gray / white fibrous	No Asbestos Detected using PLM	64% Fiberglass 36% Non-Fibrous Material
		No asbestos detected in sample		
1-022C	331475	S center bldg #30 Pipe insulation elbow		PF 12/7/97
		100% Gray / white fibrous	No Asbestos Detected using PLM	69% Cellulose 31% Non-Fibrous Material
		No asbestos detected in sample		
1-023A	331476	NW corner of bldg #30 below heater Pipe insulation		PF 12/7/97
		100% White fibrous	21% Chrysotile 18% Amosite	14% Fiberglass 47% Non-Fibrous Material
		39% asbestos in composite sample		
1-023B	331477	NW corner of bldg #30 below heater Pipe insulation		PF 12/7/97
		100% White fibrous	25% Chrysotile 17% Amosite	18% Fiberglass 40% Non-Fibrous Material
		42% asbestos in composite sample		
1-023C	331478	NW corner of bldg #30 below heater Pipe insulation		PF 12/7/97
		100% White fibrous	23% Chrysotile 20% Amosite	15% Fiberglass 42% Non-Fibrous Material
		43% asbestos in composite sample		
1-024A7	331479	Men's bathroom bldg #30 floor Plaster		PF 12/7/97
		100% Gray / white plaster	No Asbestos Detected using PLM	21% Cellulose 79% Non-Fibrous Material
		No asbestos detected in sample		



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Laboratory # NY711281
Client: ACRES International

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
1-024B	331480	Men's bathroom bldg #30 floor	Plaster	100% Gray / white plaster	No Asbestos Detected using PLM 17% Cellulose 83% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-024C	331481	Men's bathroom bldg #30 floor	Plaster	100% Gray / white plaster	No Asbestos Detected using PLM 16% Cellulose 84% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-025A	331482	Men's bathroom bldg #30 floor	Roof flashing	100% Black flashing	No Asbestos Detected using PLM 46% Cellulose 20% Fiberglass 34% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample - NOB Material						
1-025B	331483	Men's bathroom bldg #30 floor	Roof flashing	100% Black flashing	No Asbestos Detected using PLM 48% Cellulose 21% Fiberglass 31% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample - NOB Material						
1-025C	331484	Men's bathroom bldg #30 floor	Roof flashing	100% Black flashing	No Asbestos Detected using PLM 45% Cellulose 23% Fiberglass 32% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample - NOB Material						
1-026A	331485	NE & NW corners bldg #30	Concrete roof panels	100% Gray fibrous	No Asbestos Detected using PLM 44% Fiberglass 56% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-026B	331486	NE & NW corners bldg #30	Concrete roof panels	100% Gray fibrous	No Asbestos Detected using PLM 37% Fiberglass 63% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-026C	331487	NE & NW corners bldg #30	Concrete roof panels	100% Gray fibrous	No Asbestos Detected using PLM 33% Fiberglass 67% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-027A	331488	NW center bldg #41	Pipe insulation	100% Tan fibrous	No Asbestos Detected using PLM 92% Fiberglass 8% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						



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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Asbestos Content	Analyst Comment	Analyst - Date
1-027B	331489	NE center bldg #41	Pipe insulation		PF 12/7/97
		100% Tan fibrous	No Asbestos Detected using PLM	90% Fiberglass 10% Non-Fibrous Material	
No asbestos detected in sample					
1-027C	331490	NE center bldg #41	Pipe insulation		PF 12/7/97
		100% Tan fibrous	No Asbestos Detected using PLM	95% Fiberglass 5% Non-Fibrous Material	
No asbestos detected in sample					
1-028A	331491	NW center bldg #41	Pipe elbow		PF 12/7/97
		100% Gray fibrous	No Asbestos Detected using PLM	75% Fiberglass 25% Non-Fibrous Material	
No asbestos detected in sample					
1-028B	331492	NW center bldg #41	Pipe elbow		PF 12/7/97
		100% Gray fibrous	No Asbestos Detected using PLM	81% Fiberglass 19% Non-Fibrous Material	
No asbestos detected in sample					
1-028C	331493	NW center bldg #41	Pipe elbow		PF 12/7/97
		100% Gray fibrous	No Asbestos Detected using PLM	76% Fiberglass 24% Non-Fibrous Material	
No asbestos detected in sample					
1-029A	331494	NE center bldg #41	Plaster		PF 12/7/97
		100% Gray plaster	No Asbestos Detected using PLM	11% Cellulose 89% Non-Fibrous Material	
No asbestos detected in sample					
1-029B	331495	NE center bldg #41	Plaster		PF 12/7/97
		100% Gray plaster	No Asbestos Detected using PLM	8% Cellulose 92% Non-Fibrous Material	
No asbestos detected in sample					
1-029C	331496	NE center bldg #41	Plaster		PF 12/7/97
		100% Gray plaster	No Asbestos Detected using PLM	13% Cellulose 87% Non-Fibrous Material	
No asbestos detected in sample					
1-030A	331497	NE wall interior	Concrete		PF 12/7/97
		100% Gray concrete	No Asbestos Detected using PLM	19% Cellulose 81% Non-Fibrous Material	
No asbestos detected in sample					



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Analysis Results Table				
Client Sample	CLI Sample #	Sample Location / Description	Analyst Comment	Analysis - Date
		Material Description(s)	Asbestos Content	Non-Asbestos Content
1-030B	331498	NE wall interior Concrete		
		100% Gray concrete	No Asbestos Detected using PLM	15% Cellulose 85% Non-Fibrous Material
No asbestos detected in sample				
1-030C	331499	NE wall interior Concrete		
		100% Gray concrete	No Asbestos Detected using PLM	24% Cellulose 76% Non-Fibrous Material
No asbestos detected in sample				
1-031A	331500	NE wall interior (off floor) Roof flashing		
		100% Black flashing	No Asbestos Detected using PLM	45% Cellulose 16% Fiberglass 39% Non-Fibrous Material
No asbestos detected in sample - NOB Material				
1-031B	331501	NE wall interior (off floor) Roof flashing		
		100% Black flashing	No Asbestos Detected using PLM	41% Cellulose 23% Fiberglass 36% Non-Fibrous Material
No asbestos detected in sample - NOB Material				
1-031C	331502	NE wall interior (off floor) Roof flashing		
		100% Black flashing	No Asbestos Detected using PLM	44% Cellulose 18% Fiberglass 38% Non-Fibrous Material
No asbestos detected in sample - NOB Material				
1-032A	331503	Boiler room ceiling level Duct wrap		
		50% Tan fibrous	No Asbestos Detected using PLM	93% Fiberglass 7% Non-Fibrous Material
		50% Black fibrous / tar	10% Chrysotile	12% Cellulose 31% Fiberglass 47% Non-Fibrous Material
5.0% asbestos in composite sample - NOB Material				
1-032B	331504	Boiler room ceiling level Duct wrap	Not analyzed after first positive	
		%		
% asbestos in composite sample - Not analyzed after first positive				
1-032C	331505	Boiler room ceiling level Duct wrap	Not analyzed after first positive.	
		%		
% asbestos in composite sample - Not analyzed after first positive.				



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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Asbestos Content	Analyst Comment	Analyst - Date
1-033A	331506	Outside office near bathroom	Floor tile		PF 12/7/97
		95% Beige floor tile	7% Chrysotile	37% Cellulose 8% Fiberglass 48% Non-Fibrous Material	
		5% Black mastic	No Asbestos Detected using PLM	35% Cellulose 10% Fiberglass 55% Non-Fibrous Material	
		6.7% asbestos in composite sample - NOB Material			
1-033B	331507	Outside office near bathroom	Floor tile	Not analyzed after first positive.	PF 12/7/97
		%			
% asbestos in composite sample - Not analyzed after first positive.					
1-033C	331508	Outside office near bathroom	Floor tile	Not analyzed after first positive.	PF 12/7/97
		%			
% asbestos in composite sample - Not analyzed after first positive.					
1-034A	331509	SE center resting on floor	Tank insulation		PF 12/7/97
		100% White fibrous	No Asbestos Detected using PLM	3% Cellulose 91% Fiberglass 6% Non-Fibrous Material	
No asbestos detected in sample					
1-034B	331510	SE center resting on floor	Tank insulation		PF 12/7/97
		100% White fibrous	No Asbestos Detected using PLM	2% Cellulose 95% Fiberglass 3% Non-Fibrous Material	
No asbestos detected in sample					
1-034C	331511	SE center resting on floor	Tnak insulation		PF 12/7/97
		100% White fibrous	No Asbestos Detected using PLM	2% Cellulose 92% Fiberglass 6% Non-Fibrous Material	
No asbestos detected in sample					
1-035A	331512	Boiler room	Make-up tank insulation		PF 12/7/97
		100% White fibrous	18% Chrysotile 25% Amosite	21% Fiberglass 36% Non-Fibrous Material	
43% asbestos in composite sample					
1-035B	331513	Boiler room	Make-up tank insulation	Not analyzed after first postive.	PF 12/7/97
		%			
% asbestos in composite sample - Not analyzed after first positive.					



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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Asbestos Content	Analyst Comment	Analyst - Date	
1-035C	331514	Boiler room Make-up tank insulation	Not analyzed after first postive.		PF 12/7/97	
		%				
		% asbestos in composite sample - Not analyzed after first postive.				
1-036A	331515	Bldg #27 Ceiling tile			PF 12/7/97	
		100% Beige ceiling tile	No Asbestos Detected using PLM	42% Cellulose 25% Fiberglass 33% Non-Fibrous Material		
		No asbestos detected in sample				
1-036B	331516	Bldg #27 Ceiling tile			PF 12/7/97	
		100% Beige ceiling tile	No Asbestos Detected using PLM	46% Cellulose 24% Fiberglass 30% Non-Fibrous Material		
		No asbestos detected in sample				
1-036C	331517	Bldg #27 Ceiling tile			PF 12/7/97	
		100% Beige ceiling tile	No Asbestos Detected using PLM	36% Cellulose 31% Fiberglass 33% Non-Fibrous Material		
		No asbestos detected in sample				
1-037A	331518	Bldg #27 Window glazing			PF 12/7/97	
		100% White / beige glaze	No Asbestos Detected using PLM	6% Cellulose 94% Non-Fibrous Material		
		No asbestos detected in sample				
1-037B	331519	Bldg #27 Window glazing			PF 12/7/97	
		100% White / beige glaze	No Asbestos Detected using PLM	4% Cellulose 96% Other		
		No asbestos detected in sample				
1-037C	331520	Bldg #27 Window glazing			PF 12/7/97	
		100% White / beige glaze	No Asbestos Detected using PLM	7% Cellulose 93% Non-Fibrous Material		
		No asbestos detected in sample				
1-038A	331521	Bldg #30A - on floor Pipe insulation			PF 12/7/97	
		100% Gray / white fibrous	24% Chrysotile 22% Amosite	17% Fiberglass 37% Non-Fibrous Material		
		46% asbestos in composite sample				
1-038B	331522	Bldg #30A - on floor Pipe insulation	Not analyzed after first postive.		PF 12/7/97	
		%				
		% asbestos in composite sample - Not analyzed after first postive.				



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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Asbestos Content	Analyst Comment	Analyst - Date
		Material Description(s)		Non-Asbestos Content	
1-038C	331523	Bldg #30A - on floor	Pipe insulation	Not analyzed after first positive.	PF 12/7/97
		%			
		% asbestos in composite sample - Not analyzed after first positive.			
1-039A	331524	Bldg #30A piled on metal scrap	Ceiling tile		PF 12/7/97
		100% White / gray ceiling tile	No Asbestos Detected using PLM	6% Cellulose 85% Fiberglass 9% Non-Fibrous Material	
		No asbestos detected in sample			
1-039B	331525	Bldg #30A piled on metal scrap	Ceiling tile		PF 12/7/97
		100% Gray / white ceiling tile	No Asbestos Detected using PLM	4% Cellulose 88% Fiberglass 8% Non-Fibrous Material	
		No asbestos detected in sample			
1-039C	331526	Bldg #30A piled on metal scrap	Ceiling tile		PF 12/7/97
		100% Gray / white ceiling tile	No Asbestos Detected using PLM	10% Cellulose 81% Fiberglass 9% Non-Fibrous Material	
		No asbestos detected in sample			
1-040A	331527	Bldg #30A piled on metal scrap	Ceiling tile		PF 12/7/97
		100% White ceiling tile	No Asbestos Detected using PLM	4% Cellulose 86% Fiberglass 10% Non-Fibrous Material	
		No asbestos detected in sample			
1-040B	331528	Bldg #30A piled on metal scrap	Ceiling tile		PF 12/7/97
		100% White ceiling tile	No Asbestos Detected using PLM	3% Cellulose 84% Fiberglass 13% Non-Fibrous Material	
		No asbestos detected in sample			
1-040C	331529	Bldg #30A piled on metal scrap	Ceiling tile		PF 12/7/97
		100% White ceiling tile	No Asbestos Detected using PLM	2% Cellulose 88% Fiberglass 10% Non-Fibrous Material	
		No asbestos detected in sample			
1-041A	331530	Bldg #30A on table	Joint compound		PF 12/7/97
		100% White powder	No Asbestos Detected using PLM	15% Cellulose 85% Non-Fibrous Material	
		No asbestos detected in sample			
1-041B	331531	Bldg #30A on table	Joint compound		PF 12/7/97
		100% White powder	No Asbestos Detected using PLM	17% Cellulose 83% Non-Fibrous Material	
		No asbestos detected in sample			



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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
1-041C	331532	Bldg #30A on table	Joint compound		PF 12/7/97
		100% White powder	No Asbestos Detected using PLM	12% Cellulose 88% Non-Fibrous Material	
No asbestos detected in sample					
1-042A	331533	Bldg #30A on floor	Mortar mix		PF 12/7/97
		100% White fibrous	33% Chrysotile	21% Fiberglass 46% Non-Fibrous Material	
33% asbestos in composite sample					
1-042B	331534	Bldg #30A on floor	Mortar mix	Not analyzed after first positive.	PF 12/7/97
		%			
% asbestos in composite sample - Not analyzed after first positive.					
1-042C	331535	Bldg #30A on floor	Mortar mix	Not analyzed after first positive.	PF 12/7/97
		%			
% asbestos in composite sample - Not analyzed after first positive.					
1-043A	331536	Bldg #30A on floor	Cement mix		PF 12/7/97
		100% Gray fibrous	No Asbestos Detected using PLM	61% Fiberglass 39% Non-Fibrous Material	
No asbestos detected in sample					
1-043B	331537	Bldg #30A on floor	Cement mix		PF 12/7/97
		100% Gray fibrous	No Asbestos Detected using PLM	69% Cellulose 31% Non-Fibrous Material	
No asbestos detected in sample					
1-043C	331538	Bldg #30A on floor	Cement mix		PF 12/7/97
		100% Gray fibrous	No Asbestos Detected using PLM	74% Cellulose 26% Non-Fibrous Material	
No asbestos detected in sample					
1-044A	331539	Bldg #30A on floor	Roofing panels		PF 12/7/97
		100% Tan fibrous	No Asbestos Detected using PLM	92% Cellulose 8% Non-Fibrous Material	
No asbestos detected in sample					
1-044B	331540	Bldg #30A on floor	Roofing panels		PF 12/7/97
		100% Tan fibrous	No Asbestos Detected using PLM	95% Cellulose 5% Non-Fibrous Material	
No asbestos detected in sample					



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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
1-044C	331541	Bldg #30A on floor	Roofing panels			PF 12/7/97
			100% Tan fibrous	No Asbestos Detected using PLM	93% Cellulose 7% Non-Fibrous Material	
No asbestos detected in sample						
1-045A	331542	Bldg #30A along S wall	Pipe elbow			PF 12/7/97
			100% Gray fibrous	No Asbestos Detected using PLM	65% Fiberglass 35% Non-Fibrous Material	
No asbestos detected in sample						
1-045B	331543	Bldg #30A along S wall	Pipe elbow			PF 12/7/97
			100% Gray fibrous	No Asbestos Detected using PLM	71% Fiberglass 29% Non-Fibrous Material	
No asbestos detected in sample						
1-045C	331544	Bldg #30A along S wall	Pipe elbow			PF 12/7/97
			100% Gray fibrous	No Asbestos Detected using PLM	62% Fiberglass 38% Non-Fibrous Material	
No asbestos detected in sample						
1-046A	331545	Bldg #30A along N wall	Panel mastic			PF 12/7/97
			100% Brown mastic	12% Chrysotile	15% Cellulose 73% Non-Fibrous Material	
12% asbestos in composite sample - NOB Material						
1-046B	331546	Bldg #30A along N wall	Panel mastic	Not analyzed after first postive.		PF 12/7/97
			%			
% asbestos in composite sample - Not analyzed after first postive.						
1-046C	331547	Bldg #30A along N wall	Panel mastic	Not analyzed after first postive.		PF 12/7/97
			%			
% asbestos in composite sample - Not analyzed after first postive.						
1-047A	331548	Bldg #30A outside N/E	Pipe insulation			PF 12/7/97
			100% White / gray fibrous	31% Amosite	21% Fiberglass 48% Non-Fibrous Material	
31% asbestos in composite sample						
1-047B	331549	Bldg #30A outside E/N	Pipe insulation	Not analyzed after first postive.		PF 12/7/97
			%			
% asbestos in composite sample - Not analyzed after first postive.						



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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Asbestos Content	Analyst Comment	Analyst - Date	
1-047C	331550	Bldg #30A outside E/N	Pipe insulation	Not analyzed after first positive.	PF 12/7/97	
		%				
		% asbestos in composite sample - Not analyzed after first positive.				
1-048A	331551	Bldg #30A outside E/N	Transite ductwork		PF 12/7/97	
		100% Gray transite	26% Chrysotile 21% Amosite	15% Fiberglass 38% Non-Fibrous Material		
		47% asbestos in composite sample				
1-048B	331552	Bldg #30A outside E/N	Transite ductwork	Not analyzed after first positive.	PF 12/7/97	
		%				
		% asbestos in composite sample - Not analyzed after first positive.				
1-048C	331553	Bldg #30A outside E/N	Transite ductwork	Not analyzed after first positive.	PF 12/7/97	
		%				
		% asbestos in composite sample - Not analyzed after first positive.				
1-049A	331554	Bldg #30A 40 windows	Window glazing		PF 12/7/97	
		100% White glaze	No Asbestos Detected using PLM	8% Cellulose 92% Non-Fibrous Material		
		No asbestos detected in sample				
1-049B	331555	Bldg #30A 40 windows	Window glazing		PF 12/7/97	
		100% White glaze	No Asbestos Detected using PLM	11% Cellulose 89% Non-Fibrous Material		
		No asbestos detected in sample				
1-049C	331556	Bldg #30A 40 windows	Window glazing		PF 12/7/97	
		100% White glaze	No Asbestos Detected using PLM	7% Cellulose 93% Non-Fibrous Material		
		No asbestos detected in sample				
1-050	331557	Bldg #30A S center	Floor wipe		PF 12/7/97	
		100% Swipe	6% Chrysotile	5% Cellulose 11% Fiberglass 78% Non-Fibrous Material		
		6.0% asbestos in composite sample				
1-051	331558	Bldg #30A S wall 4' up	Wall wipe		PF 12/7/97	
		100% Swipe	No Asbestos Detected using PLM	2% Cellulose 1% Synthetic 97% Non-Fibrous Material		
		No asbestos detected in sample				



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Analysis Results Table

Client Sample	CLJ Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
1-052A	331559	Bldg T-3 E wall windows	Window glazing	100% Gray glaze <i>No Asbestos Detected using PLM</i>	9% Cellulose 91% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-052B	331560	Bldg T-3 E wall windows	Window glazing	100% Gray glaze <i>No Asbestos Detected using PLM</i>	11% Cellulose 89% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-052C	331561	Bldg T-3 wall windows	Window glazing	100% Gray glaze <i>No Asbestos Detected using PLM</i>	7% Cellulose 93% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-053A	331562	Bldg #3 area windows	Window glazing	100% Gray glaze <i>No Asbestos Detected using PLM</i>	10% Cellulose 90% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-053B	331563	Bldg #3 area windows	Window glazing	100% Gray glaze <i>No Asbestos Detected using PLM</i>	12% Cellulose 88% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-053C	331564	Bldg #3 area windows	Window glazing	100% Gray glaze <i>No Asbestos Detected using PLM</i>	9% Cellulose 91% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-054A	331565	Bldg #5 area windows	Window glazing	100% Gray glaze <i>No Asbestos Detected using PLM</i>	11% Cellulose 89% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-054B	331566	Bldg #5 area windows	Window glazing	100% Gray glaze <i>No Asbestos Detected using PLM</i>	9% Cellulose 91% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						
1-054C	331567	Bldg #5 area windows	Window glazing	100% Gray glaze <i>No Asbestos Detected using PLM</i>	13% Cellulose 87% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample						



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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
1-055A	331568	Bldg #31 N wall behind heater	Mastic	15% asbestos in composite sample - NOB Material	21% Cellulose 64% Non-Fibrous Material	PF 12/7/97
			100% Brown mastic	15% Chrysotile		
1-055B	331569	Bldg #31 N wall behind heater	Mastic	% % asbestos in composite sample - Not analyzed after first postive.	Not analyzed after first postive.	PF 12/7/97
1-055C	331570	Bldg #31 N wall behind heater	Mastic	% % asbestos in composite sample - Not analyzed after first postive.	Not analyzed after first postive.	PF 12/7/97
1-056A	331571	Bldg #31 E end	Floor tile	No asbestos detected in sample - NOB Material	33% Cellulose 8% Fiberglass 59% Non-Fibrous Material	PF 12/7/97
			100% Beige floor tile	No Asbestos Detected using PLM		
1-056B	331572	Bldg #31 E end	Floor tile	No asbestos detected in sample - NOB Material	31% Cellulose 9% Fiberglass 60% Non-Fibrous Material	PF 12/7/97
			100% Beige floor tile	No Asbestos Detected using PLM		
1-056C	331573	Bldg #31 E end	Floor tile	No asbestos detected in sample - NOB Material	34% Cellulose 8% Fiberglass 58% Non-Fibrous Material	PF 12/7/97
			100% Beige floor tile	No Asbestos Detected using PLM		
1-057A	331574	John Syms office	Ceiling tile	No asbestos detected in sample	3% Cellulose 88% Fiberglass 9% Non-Fibrous Material	PF 12/7/97
			100% White ceiling tile	No Asbestos Detected using PLM		
1-057B	331575	John Syms office	Ceiling tile	No asbestos detected in sample	4% Cellulose 90% Fiberglass 6% Non-Fibrous Material	PF 12/7/97
			100% White ceiling tile	No Asbestos Detected using PLM		
1-057C	331576	John Syms office	Ceiling tile	No asbestos detected in sample	4% Cellulose 85% Fiberglass 11% Non-Fibrous Material	PF 12/7/97
			100% White ceiling tile	No Asbestos Detected using PLM		



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NYS DOH ELAP Lab # 10954

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Laboratory #: NY711781
Client: ACRES International

Analysis Results Table

Client Sample	CLL Sample #	Sample Location / Description Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
1-058A	331577	Bldg #31 hallway Floor tile 100% White fibrous	No Asbestos Detected using PLM	21% Cellulose 79% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample					
1-058B	331578	Bldg #31 hallway Floor tile 100% White fibrous	No Asbestos Detected using PLM	15% Cellulose 85% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample					
1-058C	331579	Bldg #31 hallway Floor tile 100% White fibrous	No Asbestos Detected using PLM	21% Cellulose 79% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample					
1-059A	331580	Bldg #31 SE offices Ceiling tile 100% Gray ceiling tile	No Asbestos Detected using PLM	15% Cellulose 71% Fiberglass 14% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample					
1-059B	331581	Bldg #31 SE offices Ceiling tile 100% Gray ceiling tile	No Asbestos Detected using PLM	18% Cellulose 65% Fiberglass 17% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample					
1-059C	331582	Bldg #31 SE office Ceiling tile 100% Gray ceiling tile	No Asbestos Detected using PLM	16% Cellulose 70% Fiberglass 14% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample					
1-060A	331583	Bldg #31 NE office Cove base 95% Black basecove 5% Tan mastic	No Asbestos Detected using PLM No Asbestos Detected using PLM	32% Cellulose 68% Non-Fibrous Material 16% Cellulose 84% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample - NOB Material					
1-060B	331584	Bldg #31 NE office Cove base 95% Black basecove 5% Tan mastic	No Asbestos Detected using PLM No Asbestos Detected using PLM	35% Cellulose 65% Non-Fibrous Material 12% Cellulose 88% Non-Fibrous Material	PF 12/7/97
No asbestos detected in sample - NOB Material					



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Report Date: 12/2/97
Laboratory # NY711281
Client: ACRES International

Analysis Results Table

Client Sample	CLT Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
1-060C	331585	Bldg #31 NE office	Cove base			PF 12/7/97
			95% Black basecoat	No Asbestos Detected using PLM	27% Cellulose 73% Non-Fibrous Material	
			5% Tan mastic	No Asbestos Detected using PLM	17% Cellulose 83% Non-Fibrous Material	
			No asbestos detected in sample - NOB Material			
1-061A	331586	Bldg #31 hallway	Pipe elbow			PF 12/7/97
			100% Gray fibrous	30% Chrysotile	18% Fiberglass 52% Non-Fibrous Material	
			30% asbestos in composite sample			
1-061B	331587	Bldg #31 hallway	Pipe elbow	Not analyzed after first positive.		PF 12/7/97
			%			
			% asbestos in composite sample - Not analyzed after first positive.			
1-061C	331588	Bldg #31 hallway	Pipe elbow	Not analyzed after first positive.		PF 12/7/97
			%			
			% asbestos in composite sample - Not analyzed after first positive.			
1-062A	331589	Bldg #31 hallway	Duct wrap			PF 12/7/97
			100% Black fibrous / tar	No Asbestos Detected using PLM	31% Cellulose 40% Fiberglass 29% Non-Fibrous Material	
			No asbestos detected in sample - NOB Material			
1-062B	331590	Bldg #31 hallway	Duct wrap			PF 12/7/97
			100% Black fibrous / tar	No Asbestos Detected using PLM	23% Cellulose 45% Fiberglass 32% Non-Fibrous Material	
			No asbestos detected in sample - NOB Material			
1-062C	331591	Bldg #31 hallway	Duct wrap			PF 12/7/97
			100% Black fibrous / tar	No Asbestos Detected using PLM	22% Cellulose 41% Fiberglass 37% Non-Fibrous Material	
			No asbestos detected in sample - NOB Material			
1-063A	331592	Bldg #31 N center	Ceiling tile			PF 12/7/97
			100% Tan ceiling tile	No Asbestos Detected using PLM	90% Cellulose 10% Non-Fibrous Material	
			No asbestos detected in sample			



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Report Date: 12/8/97
Laboratory # NY71281
Client ACRES International

Analysis Results Table

Client Sample	CLL Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
1-063B	331593	Bldg #31 N center	Ceiling tile			PF 12/7/97
		100% Tan ceiling tile		No Asbestos Detected using PLM	95% Cellulose 5% Non-Fibrous Material	
No asbestos detected in sample						
1-063C	331594	Bldg #31 N center	Ceiling tile			PF 12/7/97
		100% Tan ceiling tile		No Asbestos Detected using PLM	94% Cellulose 6% Non-Fibrous Material	
No asbestos detected in sample						
1-064A	331595	Area 21, N room	Window caulk			PF 12/7/97
		100% Gray caulk		No Asbestos Detected using PLM	11% Cellulose 89% Non-Fibrous Material	
No asbestos detected in sample						
1-064B	331596	Area 21 N room	Window caulk			PF 12/7/97
		100% Gray caulk		No Asbestos Detected using PLM	7% Cellulose 93% Non-Fibrous Material	
No asbestos detected in sample						
1-064C	331597	Area 21, N room	Window caulk			PF 12/7/97
		100% Gray caulk		No Asbestos Detected using PLM	10% Cellulose 90% Non-Fibrous Material	
No asbestos detected in sample						
1-065A	331598	Area 21 chicken coop	Building panel			PF 12/7/97
		100% Tan fibrous		No Asbestos Detected using PLM	90% Cellulose 10% Non-Fibrous Material	
No asbestos detected in sample						
1-065B	331599	Area 21 chicken coop	Building panel			PF 12/7/97
		100% Tan fibrous		No Asbestos Detected using PLM	93% Cellulose 7% Non-Fibrous Material	
No asbestos detected in sample						
1-065C	331600	Area 21 chicken coop	Building panel			PF 12/7/97
		100% Tan fibrous		No Asbestos Detected using PLM	92% Cellulose 8% Non-Fibrous Material	
No asbestos detected in sample						
1-066A	331601	Area 21 NE corner office	Ceiling plaster			PF 12/7/97
		100% Beige / gray plaster		No Asbestos Detected using PLM	18% Cellulose 82% Non-Fibrous Material	
No asbestos detected in sample						



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Laboratory # NY711281
Client: ACRES Institutional

Analysis Results Table					
Client Sample	CLL Sample #	Sample Location / Description		Analyst Comment	Analyst - Date
		Material Description(s)	Asbestos Content	Non-Asbestos Content	
1-066B	331602	Area 21 NE corner office	Ceiling plaster		PF 12/7/97
		100% Beige plaster	No Asbestos Detected using PLM	19% Cellulose 81% Non-Fibrous Material	
No asbestos detected in sample					
1-066C	331603	Area 21 NE corner office	Ceiling plaster		PF 12/7/97
		100% Beige plaster	No Asbestos Detected using PLM	16% Cellulose 84% Non-Fibrous Material	
No asbestos detected in sample					
1-067A	331604	Area 21 pipe bridge over W ditch	Pipe insulation		PF 12/7/97
		100% White fibrous	21% Chrysotile 15% Amosite	18% Fiberglass 46% Non-Fibrous Material	
36% asbestos in composite sample					
1-067B	331605	Area 21 pipe bridge over W ditch	Pipe insulation	Not analyzed after first positive.	PF 12/7/97
%					
% asbestos in composite sample - Not analyzed after first positive.					
1-067C	331606	Area 21 pipe bridge over W ditch	Pipe insulation	Not analyzed after first positive.	PF 12/7/97
%					
% asbestos in composite sample - Not analyzed after first positive.					

Additional testing is recommended for any material which contains <1% asbestos or NOB (non-friable organically bound) bulk materials which are negative or <1% asbestos. Analysis by Polarized Light Microscopy (PLM) has a degree of uncertainty that is dependent on the sample matrix, non-asbestos minerals present, size of the asbestos present, the sample homogeneity and analyst variability. PLM coefficients of variance range from approx. 1.8, at the quantitation limit of 1%, to 0.1 at high fiber concentrations. All PLM analyses must be reviewed with these factors taken into consideration.

These results are submitted pursuant to Chopra-Lee, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results or recommendations are used or interpreted. These results pertain only to the items tested. Any reproduction of this document must include the entire document in order for the report to be valid. Certification by NIST through NVLAP or New York State through ELAP does not constitute government endorsement of this testing facility. Unless notified in writing to return the samples received for this report, Chopra-Lee, Inc. will retain what remains of the samples for a period of 12 months before destruction.



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Report Date 12/8/97
Laboratory # NY711281
Client ACRES International

Laboratory Report

Client: **ACRES International**
140 John James Audubon Pkwy.
Amherst, NY 14228

Laboratory Project # NY711281

Project Manager: Paul Chopra

Start Date: 11/21/97

Report Date: 11/26/97

Analysis Type: Bulk Asbestos Analysis by Polarized Light Microscopy

Attention: Anthony Dell'Isola

Project Ref #

Purchase Order # P11760.00

Project: Bulk Samples for Asbestos Analysis

Somerset Group Property

Authorized Signature

Paul S. Chopra, Laboratory Manager

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Analyst Comment	Analyst - Date
		Material Description(s)	Asbestos Content	Non-Asbestos Content

The following 176 samples were submitted by ACRES International on 11/21/97 and analyzed in accordance with PLM - ELAP Method 198.1

S-001	330532	N of guard shed (brush) Soil		PF 11/24/97
		100% Soil	2% Chrysotile	9% Cellulose 89% Non-Fibrous Material

2.0% asbestos in composite sample

S-002	330533	S of guard shed (brush) Soil		PF 11/24/97
		100% Soil	4% Chrysotile	11% Cellulose 85% Non-Fibrous Material

4.0% asbestos in composite sample

S-003	330534	Sim's office (bird house) (grass) Soil		PF 11/24/97
		100% Soil	<1% Chrysotile	12% Cellulose 5% Fiberglass 82% Non-Fibrous Material

Less than 1% asbestos in composite sample

S-004	330535	S of Sim's office (grass) Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	17% Cellulose 4% Fiberglass 79% Non-Fibrous Material

No asbestos detected in sample

S-005	330536	Gravel parking area near road Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	17% Cellulose 83% Non-Fibrous Material

No asbestos detected in sample



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Report Date: 11/26/97
Laboratory # NY711281
Client: ACRES International

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
S-006	330537	Just E of ditch near road	Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	15% Cellulose 7% Synthetic 78% Non-Fibrous Material	
		0%	No Asbestos Detected using PLM		
No asbestos detected in sample					
S-007	330538	At large tree near road	Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	11% Cellulose 17% Fiberglass 72% Non-Fibrous Material	
No asbestos detected in sample					
S-008	330539	E of road in brush	Soil		PF 11/24/97
		100% Soil	<1% Chrysotile	12% Cellulose 4% Fiberglass 5% Synthetic 78% Non-Fibrous Material	
Less than 1% asbestos in composite sample					
S-009	330540	In tank farm area	Soil		PF 11/24/97
		100% Soil	3% Chrysotile	7% Cellulose 4% Fiberglass 86% Non-Fibrous Material	
3.0% asbestos in composite sample					
S-010	330541	In brush area	Soil		PF 11/24/97
		100% Soil	2% Chrysotile	9% Cellulose 3% Fiberglass 86% Non-Fibrous Material	
2.0% asbestos in composite sample					
S-011	330542	In brush area	Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	9% Cellulose 10% Fiberglass 81% Non-Fibrous Material	
No asbestos detected in sample					
S-012	330543	Behind school bus	Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	9% Cellulose 2% Fiberglass 89% Non-Fibrous Material	
No asbestos detected in sample					
S-013	330544	From lawn, E of bldg #30	Soil		PF 11/24/97
		100% Soil	<1% Chrysotile	6% Cellulose 1% Fiberglass 92% Non-Fibrous Material	
Less than 1% asbestos in composite sample					



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Report Date: 11/26/97
Laboratory # NY-711281
Client: ACRE'S International

P.4

NOV 26 '97 00:00:11 CHURCH LEE

Analysis Res Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
S-014	330545	From lawn E of bldg #30	Soil	100% Soil	<1% Chrysotile 5% Cellulose 94% Non-Fibrous Material	PF 11/24/97
Less than 1% asbestos in composite sample						
S-015	330546	Gravel parking area E of bldg #41	Soil	100% Soil	No Asbestos Detected using PLM 3% Cellulose 97% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-016	330547	Lawn area E of bldg #41	Soil	100% Soil	No Asbestos Detected using PLM 6% Cellulose 1% Fiberglass 93% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-017	330548	Lawn area E of bldg #41	Soil	100% Soil	No Asbestos Detected using PLM 2% Cellulose 98% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-018	330549	70' W of main access road	Soil	100% Soil	No Asbestos Detected using PLM 4% Cellulose 96% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-019	330550	70' W of main access road (just N of T-1)	Soil	100% Soil	No Asbestos Detected using PLM 2% Cellulose 98% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-020	330551	60' W of main access road near T-1	Soil	100% Soil	No Asbestos Detected using PLM 4% Cellulose 1% Synthetic 95% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-021	330552	70' W of main access road (just N of T-1)	Soil	100% Soil	No Asbestos Detected using PLM 6% Cellulose 94% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-022	330553	70' W of main access road	Soil	100% Soil	No Asbestos Detected using PLM 7% Cellulose 2% Synthetic 91% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						



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Report Date: 11/26/97
Laboratory #: NY711281
Client: ACRES International

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
S-023	330554	In brush 170' W of main access road	Soil	100% Soil	No Asbestos Detected using PLM	6% Cellulose 4% Synthetic 90% Non-Fibrous Material
No asbestos detected in sample						
S-024	330555	In brush 170' W of main access road	Soil	100% Soil	No Asbestos Detected using PLM	8% Cellulose 1% Synthetic 91% Non-Fibrous Material
No asbestos detected in sample						
S-025	330556	In brush 170' W of main access road	Soil	100% Soil	No Asbestos Detected using PLM	3% Cellulose 2% Synthetic 95% Non-Fibrous Material
No asbestos detected in sample						
S-026	330557	In brush 170' W of main access road	Soil	100% Soil	No Asbestos Detected using PLM	5% Cellulose 1% Fiberglass 94% Non-Fibrous Material
No asbestos detected in sample						
S-027	330558	Open area adjacent to parking area	Soil	100% Soil	No Asbestos Detected using PLM	8% Cellulose 92% Non-Fibrous Material
No asbestos detected in sample						
S-028	330559	Between loading ramp access road and bldg #41	Soil	100% Soil	No Asbestos Detected using PLM	7% Cellulose 93% Non-Fibrous Material
No asbestos detected in sample						
S-030	330560	170' W of main access road, parking area S of #41	Soil	100% Soil	No Asbestos Detected using PLM	5% Cellulose 1% Fiberglass 1% Synthetic 93% Non-Fibrous Material
No asbestos detected in sample						
S-031	330561	170' W of main access road W of #30	Soil	100% Soil	No Asbestos Detected using PLM	8% Cellulose 92% Non-Fibrous Material
No asbestos detected in sample						
S-032	330562	170' W of main access road W of #30	Soil	100% Soil	No Asbestos Detected using PLM	3% Cellulose 2% Fiberglass 95% Non-Fibrous Material
No asbestos detected in sample						



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Report Date: 11/26/97
Laboratory # NY711251
Client: ACUES International

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Asbestos Content	Analyst Comment	Analyst - Date
		Material Description(s)		Non-Asbestos Content	
S-033	330563	170' W of main access road W of #30A Soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	9% Cellulose 91% Non-Fibrous Material	
No asbestos detected in sample					
S-034	330564	170' W of main access road in brush Soil			PF 11/24/97
		100% Soil	<1% Chrysotile	4% Cellulose 95% Non-Fibrous Material	
Less than 1% asbestos in composite sample					
S-035	330565	170' W of main access road in brush Soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	2% Cellulose 98% Non-Fibrous Material	
No asbestos detected in sample					
S-036	330566	170' W of main access road in brush Soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	6% Cellulose 94% Non-Fibrous Material	
No asbestos detected in sample					
S-037	330567	270' W of main access road near ditch Soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	3% Cellulose 1% Fiberglass 96% Non-Fibrous Material	
No asbestos detected in sample					
S-038	330568	270' W of main access road near ditch Soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	7% Cellulose 1% Synthetic 92% Non-Fibrous Material	
No asbestos detected in sample					
S-039	330569	270' W of main access road near ditch Soil			PF 11/24/97
		100% Soil	<1% Chrysotile	3% Cellulose 96% Non-Fibrous Material	
Less than 1% asbestos in composite sample					
S-040	330570	270' W of main access road near ditch Soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	1% Cellulose 1% Synthetic 98% Non-Fibrous Material	
No asbestos detected in sample					
S-041	330571	270' W of main access road near ditch Soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	4% Cellulose 96% Non-Fibrous Material	
No asbestos detected in sample					



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Report Date: 11/26/97
Laboratory # NY711281
Client ACROSS International

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
S-042	330572	270' W of main access road near ditch	Soil	100% Soil	No Asbestos Detected using PLM 6% Cellulose 94% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-043	330573	270' W of main access road along ditch	Soil	100% Soil	No Asbestos Detected using PLM 4% Cellulose 3% Synthetic 93% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-044	330574	270' W of main access road along ditch	Soil	100% Soil	No Asbestos Detected using PLM 6% Cellulose 94% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-045	330575	270' W of main access road along ditch	Soil	100% Soil	No Asbestos Detected using PLM 2% Cellulose 2% Fiberglass 96% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-046	330576	270' W of main access road along ditch	Soil	100% Soil	No Asbestos Detected using PLM 1% Cellulose 4% Synthetic 95% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-047	330577	270' W of main access road along ditch	Soil	100% Soil	No Asbestos Detected using PLM 5% Cellulose 2% Fiberglass 2% Synthetic 91% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-048	330578	270' W of main access road along ditch	Soil	100% Soil	No Asbestos Detected using PLM 3% Cellulose 97% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-049	330579	270' W of main access road along ditch	Soil	100% Soil	No Asbestos Detected using PLM 6% Cellulose 2% Fiberglass 92% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-050	330580	270' W of main access road along ditch	Soil	100% Soil	No Asbestos Detected using PLM 4% Cellulose 1% Fiberglass 1% Synthetic 94% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						



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Report Date: 11/26/97
Laboratory # NY711281
Client: ACHES International

Analysis Res. Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
S-033D	330581	170' W of main access road W of #30A	Subsurface soil	100% Soil	No Asbestos Detected using PLM	1% Cellulose 99% Non-Fibrous Material
No asbestos detected in sample						
S-051	330582	130' E of main access road N side of bldg #31	Soil	100% Soil	No Asbestos Detected using PLM	7% Cellulose 93% Non-Fibrous Material
No asbestos detected in sample						
S-052	330583	130' E of main access road N side of bldg #31	Soil	100% Soil	No Asbestos Detected using PLM	8% Cellulose 3% Fiberglass 89% Non-Fibrous Material
No asbestos detected in sample						
S-053	330584	130' E main access road N side of bldg #31	Soil	100% Soil	No Asbestos Detected using PLM	6% Cellulose 1% Synthetic 93% Non-Fibrous Material
No asbestos detected in sample						
S-054	330585	130' E of main access road N side of bldg #31	Soil	100% Soil	No Asbestos Detected using PLM	4% Cellulose 96% Non-Fibrous Material
No asbestos detected in sample						
S-055	330586	130' E of main access road N side of bldg #31	Soil	100% Soil	No Asbestos Detected using PLM	2% Cellulose 2% Fiberglass 96% Non-Fibrous Material
No asbestos detected in sample						
S-056	330587	130' E of main access road along N/S line W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM	5% Cellulose 1% Synthetic 94% Non-Fibrous Material
No asbestos detected in sample						
S-057	330588	130' E of main access road along N/S line W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM	7% Cellulose 2% Fiberglass 91% Non-Fibrous Material
No asbestos detected in sample						
S-057D	330589	130' E of main access road along N/S line W bldg 6-01	Subsurface soil	100% Soil	No Asbestos Detected using PLM	1% Cellulose 99% Non-Fibrous Material
No asbestos detected in sample						



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NIST NVLAP Lab # 1208-01
NYS DOH ELAP Lab # 10954

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Report Date: 11/26/97
Laboratory #: NY711241
Client: ACRPS International

Analysis Res Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
S-058	330590	130' E of main access road along N/S line W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 3% Cellulose 97% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-059	330591	130' E of main access road along N/S line W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 2% Cellulose 1% Fiberglass 1% Synthetic 96% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-060	330592	130' E main access road along N/S line W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 5% Cellulose 3% Synthetic 92% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-061	330593	130' E of main access road along N/S line W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 8% Cellulose 3% Fiberglass 89% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-062	330594	130' E of main access road along N/S line W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 2% Cellulose 98% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-063	330595	130' E of main access road along N/S line W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 4% Cellulose 1% Fiberglass 95% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-064	330596	130' E of main access road along N/S line W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 6% Cellulose 1% Synthetic 93% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-065	330597	130' E of main access road along N/S line W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 9% Cellulose 91% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-066	330598	130' E of main access road along N/S line W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 5% Cellulose 2% Synthetic 93% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						



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NIST NVLAP Lab # 1208-01
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Report Date: 11/26/97
Laboratory # NY711281
Client: ACRES International

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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment	Non-Asbestos Content	Analyst - Date
S-067	330599	130' E of main access road along N/S line W bldg 6-01	Soil	100% Soil	<1% Chrysotile	3% Cellulose 1% Fiberglass 1% Synthetic 94% Non-Fibrous Material	PF 11/24/97
Less than 1% asbestos in composite sample							
S-068	330600	130' E of main access road along N/S line W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM	4% Cellulose 2% Synthetic 94% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							
S-069	330601	Along N/S line E of access road W bldg 6-01	Soil	100% Soil	<1% Chrysotile	3% Cellulose 1% Synthetic 95% Non-Fibrous Material	PF 11/24/97
Less than 1% asbestos in composite sample							
S-070	330602	Along N/S line E of access road W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM	2% Cellulose 98% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							
S-071	330603	Along N/S line E of access road W bldg 6-01	Soil	100% Soil	<1% Chrysotile	5% Cellulose 94% Non-Fibrous Material	PF 11/24/97
Less than 1% asbestos in composite sample							
S-072	330604	Along N/S line E of access road W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM	6% Cellulose 2% Fiberglass 92% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							
S-073	330605	Along N/S line E of access road W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM	7% Cellulose 3% Fiberglass 90% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							
S-074	330606	Along N/S line E of access road W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM	3% Cellulose 2% Synthetic 95% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							
S-075	330607	Along N/S line E of access road W bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM	6% Cellulose 94% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							



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MIST NVLAP Lab # 1208-01
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Report Date: 11/26/97
Laboratory # NY711281
Client: ACSYS International

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Asbestos Content	Analyst Comment	Analyst - Date
		<i>Material Description(s)</i>		<i>Non-Asbestos Content</i>	
S-076	330608	Along N/S line E of access road W bldg 6-01 Soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	2% Cellulose 1% Fiberglass 3% Synthetic 94% Non-Fibrous Material	
No asbestos detected in sample					
S-063D	330609	Along N/S line W of access road W bldg 6-01 Subsurface soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	1% Cellulose 99% Non-Fibrous Material	
No asbestos detected in sample					
S-064D	330610	Along N/S line W of access road W bldg 6-01 Subsurface soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	2% Cellulose 98% Non-Fibrous Material	
No asbestos detected in sample					
S-067D	330611	Along N/S line E of access road W bldg 6-01 Subsurface soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	2% Cellulose 98% Non-Fibrous Material	
No asbestos detected in sample					
S-068D	330612	Along N/S line E of access road W bldg 6-01 Subsurface soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	1% Cellulose 99% Non-Fibrous Material	
No asbestos detected in sample					
S-070D	330613	Along N/S line E of access road W bldg 6-01 Subsurface soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	3% Cellulose 97% Non-Fibrous Material	
No asbestos detected in sample					
S-071D	330614	Along N/S line E of access road W bldg 6-01 Subsurface soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	2% Cellulose 98% Non-Fibrous Material	
No asbestos detected in sample					
S-072D	330615	Along N/S line E of access road W bldg 6-01 Subsurface soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	1% Cellulose 99% Non-Fibrous Material	
No asbestos detected in sample					
S-077	330616	Along N/S line E of access road W bldg 6-01 Soil			PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	7% Cellulose 93% Non-Fibrous Material	
No asbestos detected in sample					



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Laboratory # NV711281
Client: ACRES International

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
S-078	330617	Along N/S line running thru W-wing bldg 6-01 Soil	100% Soil	No Asbestos Detected using PLM 4% Cellulose 1% Fiberglass 95% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample					
S-079	330618	Along N/S line running thru W-wing bldg 6-01 Soil	100% Soil	No Asbestos Detected using PLM 3% Cellulose 97% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample					
S-080	330619	Along N/S line running thru W-wing bldg 6-01 Soil	100% Soil	<1% Chrysotile 8% Cellulose 91% Non-Fibrous Material	PF 11/24/97
Less than 1% asbestos in composite sample					
S-081	330620	Along N/S line running thru W-wing bldg 6-01 Soil	100% Soil	No Asbestos Detected using PLM 4% Cellulose 2% Fiberglass 94% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample					
S-082	330621	Along N/S line running thru W-wing bldg 6-01 Soil	100% Soil	No Asbestos Detected using PLM 3% Cellulose 1% Fiberglass 96% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample					
S-083	330622	Along N/S line running thru W-wing bldg 6-01 Soil	100% Soil	No Asbestos Detected using PLM 5% Cellulose 2% Fiberglass 93% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample					
S-080D	330623	Along N/S line running thru W-wing bldg 6-01 Subsurface soil	100% Soil	No Asbestos Detected using PLM 1% Cellulose 99% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample					
S-081D	330624	Along N/S line running thru W-wing bldg 6-01 Subsurface soil	100% Soil	No Asbestos Detected using PLM 2% Fiberglass 98% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample					
S-083D	330625	N of bldg 6-01 Subsurface soil	100% Soil	No Asbestos Detected using PLM 3% Cellulose 97% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample					



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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
S-084	330626	Along N/S line running thru E-wing bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 6% Cellulose 2% Fiberglass 1% Synthetic 91% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-085	330627	Along N/S line running thru E-wing bldg 6-01	Soil	100% Soil	<1% Chrysotile 4% Cellulose 1% Synthetic 94% Non-Fibrous Material	PF 11/24/97
Less than 1% asbestos in composite sample						
S-086	330628	Along line running thru E-wing bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 3% Cellulose 97% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-087	330629	Along N/S line running thru E-wing bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 1% Cellulose 2% Synthetic 97% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-088	330630	Along N/S line running thru E-wing bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 7% Cellulose 1% Fiberglass 92% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-089	330631	Along line running thru E-wing bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 5% Cellulose 2% Fiberglass 2% Synthetic 91% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-090	330632	Along N/S line 80' E bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 3% Cellulose 97% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-091	330633	Along N/S line 80' E bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 2% Cellulose 2% Synthetic 96% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-092	330634	Along N/S line 80' E bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 1% Cellulose 2% Fiberglass 97% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						



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Laboratory # NY711281
Client ACRES International

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
S-093	330635	Along N/S line 80' E bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 4% Cellulose 96% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-094	330636	Along N/S line 80' E bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 5% Cellulose 1% Synthetic 94% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-084D	330637	Along N/S line running thru E-wing bldg 6-01	Subsurface soil	100% Soil	No Asbestos Detected using PLM 1% Cellulose 99% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-086D	330638	Along N/S line running thru E-wing bldg 6-01	Subsurface soil	100% Soil	No Asbestos Detected using PLM 3% Cellulose 97% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-095	330639	Along N/S line running thru E-wing bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 5% Cellulose 95% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-096	330640	Along N/S line running thru E-wing bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 6% Cellulose 94% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-097	330641	Along N/S line running thru E-wing bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 6% Cellulose 1% Fiberglass 93% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-098	330642	Along N/S line running thru E-wing bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 7% Cellulose 4% Fiberglass 89% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-099	330643	Along N/S line running thru E-wing bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 6% Cellulose 6% Fiberglass 88% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						



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Report Date 11/24/97
Laboratory # NY711261
Client: CHOPRA-LEE Incorporated

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
S-100	330644	Along N/S line running thru E-wing bldg 6-01	Soil	100% Soil	No Asbestos Detected using PLM 6% Cellulose 3% Fiberglass 2% Synthetic 89% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-101	330645	Between bldg 6-01 and 6-02	Soil	100% Soil	<1% Chrysotile 5% Cellulose 2% Fiberglass 3% Synthetic 89% Non-Fibrous Material	PF 11/24/97
Less than 1% asbestos in composite sample						
S-102	330646	Between bldg 6-01 and 6-03	Soil	100% Soil	No Asbestos Detected using PLM 4% Cellulose 2% Fiberglass 94% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-101D	330647	Between bldg 6-01 and 6-02	Subsurface soil	100% Soil	No Asbestos Detected using PLM 3% Cellulose 97% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-102D	330648	Between bldg 6-01 and 6-03	Subsurface soil	100% Soil	No Asbestos Detected using PLM 2% Cellulose 98% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-103D	330649	Between two wings bldg 6-01	Subsurface soil	100% Soil	No Asbestos Detected using PLM 2% Cellulose 98% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-104D	330650	Between two wings bldg 6-01	Subsurface soil	100% Soil	No Asbestos Detected using PLM 4% Cellulose 96% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-105D	330651	Between two wings bldg 6-01	Subsurface soil	100% Soil	No Asbestos Detected using PLM 1% Cellulose 99% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-106D	330652	Between two wings bldg 6-01	Subsurface soil	100% Soil	No Asbestos Detected using PLM 1% Cellulose 99% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						



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Client ACRS International

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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
S-103	330653	Between two wings bldg 6-01	Soil			PF 11/24/97
			100% Soil	No Asbestos Detected using PLM	5% Cellulose 1% Fiberglass 1% Synthetic 93% Non-Fibrous Material	
No asbestos detected in sample						
S-104	330654	Between two wings bldg 6-01	Soil			PF 11/24/97
			100% Soil	<1% Chrysotile	9% Cellulose 2% Fiberglass 2% Synthetic 86% Non-Fibrous Material	
Less than 1% asbestos in composite sample						
S-105	330655	Between two wings bldg 6-01	Soil			PF 11/24/97
			100% Soil	<1% Chrysotile	7% Cellulose 2% Fiberglass 90% Non-Fibrous Material	
Less than 1% asbestos in composite sample						
S-106	330656	Between two wings bldg 6-01	Soil			PF 11/24/97
			100% Soil	No Asbestos Detected using PLM	6% Cellulose 1% Fiberglass 93% Non-Fibrous Material	
No asbestos detected in sample						
S-107	330657	Line going E along main access road @ fence	Soil			PF 11/24/97
			100% Soil	No Asbestos Detected using PLM	3% Cellulose 2% Synthetic 95% Non-Fibrous Material	
No asbestos detected in sample						
S-108	330658	Line going E along main access road @ fence	Soil			PF 11/24/97
			100% Soil	No Asbestos Detected using PLM	6% Cellulose 1% Synthetic 93% Non-Fibrous Material	
No asbestos detected in sample						
S-109	330659	Line going E along main access road @ fence	Soil			PF 11/24/97
			100% Soil	No Asbestos Detected using PLM	5% Cellulose 95% Non-Fibrous Material	
No asbestos detected in sample						
S-110	330660	Line going E along main access road @ fence	Soil			PF 11/24/97
			100% Soil	No Asbestos Detected using PLM	4% Cellulose 2% Synthetic 94% Non-Fibrous Material	
No asbestos detected in sample						
S-111	330661	Line going E along main access road @ fence	Soil			PF 11/24/97
			100% Soil	No Asbestos Detected using PLM	8% Cellulose 1% Synthetic 91% Non-Fibrous Material	
No asbestos detected in sample						



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Report Date: 11/26/97
Laboratory: NY711261
Client: ACRES Laboratories

ANALYSIS RESULTS TABLE

Client Sample #	CII Sample #	Sample Location / Description		Analyst Comment	Analysis Date
		Material Description(s)	Asbestos Content	Non-Asbestos Content	
S-112	330662	Along line E main access road 50' S of N property line	Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	3% Cellulose 97% Non-Fibrous Material	
		No asbestos detected in sample			
S-113	330663	Along line E main access road 50' S of N property line	Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	3% Cellulose 1% Fiberglass 96% Non-Fibrous Material	
		No asbestos detected in sample			
S-114	330664	Along E line 150' S of N property line	Soil		PF 11/24/97
		100% Soil	<1% Chrysotile	7% Cellulose 1% Fiberglass 91% Non-Fibrous Material	
		Less than 1% asbestos in composite sample			
S-115	330665	Along E line 150' S of N property line	Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	6% Cellulose 1% Fiberglass 93% Non-Fibrous Material	
		No asbestos detected in sample			
S-116	330666	Along E line 150' S of N property line	Soil		PF 11/24/97
		100% Soil	<1% Chrysotile	5% Cellulose 2% Synthetic 92% Non-Fibrous Material	
		Less than 1% asbestos in composite sample			
S-117	330667	Along E line 150' S of N property line	Soil		PF 11/24/97
		100% Soil	<1% Chrysotile	7% Cellulose 92% Non-Fibrous Material	
		Less than 1% asbestos in composite sample			
S-118	330668	Along E line N of former parking lot	Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	4% Cellulose 96% Non-Fibrous Material	
		No asbestos detected in sample			
S-119	330669	Along E line N of former parking lot	Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	2% Cellulose 98% Non-Fibrous Material	
		No asbestos detected in sample			
S-120	330670	Along E line 250' S of N property line	Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	6% Cellulose 1% Fiberglass 1% Synthetic 92% Non-Fibrous Material	
		No asbestos detected in sample			



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Client: ACRE International

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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
S-127	330680	N of bldg 6-01 under PACM's	Soil	100% Soil	No Asbestos Detected using PLM 3% Cellulose 1% Fiberglass 3% Synthetic 93% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-127D	330681	N bldg 6-01 under PACM's	Subsurface soil	100% Soil	No Asbestos Detected using PLM 1% Cellulose 99% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-128	330682	E of bldg 6-01 under PACM's	Soil	100% Soil	No Asbestos Detected using PLM 7% Cellulose 93% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-128D	330683	E of bldg 6-01 under PACM's	Subsurface soil	100% Soil	No Asbestos Detected using PLM 2% Cellulose 1% Fiberglass 97% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-129	330684	E of bldg 6-01 under PACM's	Soil	100% Soil	No Asbestos Detected using PLM 4% Cellulose 1% Fiberglass 2% Synthetic 93% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-129D	330685	E of bldg 6-01 under PACM's	Subsurface soil	100% Soil	No Asbestos Detected using PLM 2% Cellulose 98% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-130	330686	S of E-wing bldg 6-01 under PACM's	Soil	100% Soil	No Asbestos Detected using PLM 5% Cellulose 1% Fiberglass 3% Synthetic 91% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-130D	330687	S of E-wing bldg 6-01 under PACM's	Subsurface soil	100% Soil	No Asbestos Detected using PLM 1% Cellulose 1% Fiberglass 98% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						
S-131	330688	S of W-wing bldg 6-01 under PACM's	Soil	100% Soil	No Asbestos Detected using PLM 3% Cellulose 3% Fiberglass 94% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample						



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Laboratory # NY711241
Client: ACUES International

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
S-131D	330689	S of W-wing bldg 6-01 under PACM's	Subsurface soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	1% Cellulose 2% Fiberglass 97% Non-Fibrous Material	
No asbestos detected in sample					
S-132	330690	N bldg 6-02 under PACM's	Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	8% Cellulose 3% Fiberglass 89% Non-Fibrous Material	
No asbestos detected in sample					
S-132D	330691	N of bldg 6-02 under PACM's	Subsurface soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	1% Cellulose 99% Non-Fibrous Material	
No asbestos detected in sample					
S-133	330692	N of bldg 6-03 under PACM's	Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	6% Cellulose 4% Fiberglass 3% Synthetic 87% Non-Fibrous Material	
No asbestos detected in sample					
S-133D	330693	N of bldg 6-03 under PACM's	Subsurface soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	1% Cellulose 1% Fiberglass 98% Non-Fibrous Material	
No asbestos detected in sample					
S-134	330694	Inside tank farm S of area #3 E end	Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	5% Cellulose 3% Fiberglass 1% Synthetic 91% Non-Fibrous Material	
No asbestos detected in sample					
S-134D	330695	Inside tank farm S of area #3 E end	Subsurface soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	1% Cellulose 2% Synthetic 97% Non-Fibrous Material	
No asbestos detected in sample					
S-135	330696	Area west of area #3	Soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	9% Cellulose 3% Fiberglass 88% Non-Fibrous Material	
No asbestos detected in sample					
S-135D	330697	Area W of area #3	Subsurface soil		PF 11/24/97
		100% Soil	No Asbestos Detected using PLM	2% Cellulose 98% Non-Fibrous Material	
No asbestos detected in sample					



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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Material Description(s)	Asbestos Content	Analyst Comment	Non-Asbestos Content	Analyst - Date
S-136	330698	N of W extent of tank farm S area #3	Soil	100% Soil	No Asbestos Detected using PLM	8% Cellulose 3% Fiberglass 89% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							
S-136D	330699	N of W extent of tank farm area S of area #3	Subsurface soil	100% Soil	No Asbestos Detected using PLM	1% Cellulose 99% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							
S-137	330700	Inside tank farm S of area #3 W end	Soil	100% Soil	No Asbestos Detected using PLM	5% Cellulose 95% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							
S-137D	330701	Inside tank farm S of area #3 W end	Subsurface soil	100% Soil	No Asbestos Detected using PLM	2% Cellulose 98% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							
S-139	330702	Just W areas #3/#5 between two structures	Soil	100% Soil	No Asbestos Detected using PLM	4% Cellulose 3% Fiberglass 93% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							
S-139D	330703	Just W area #3/#5 between two structures	Subsurface soil	100% Soil	No Asbestos Detected using PLM	2% Cellulose 1% Fiberglass 97% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							
S-138	330704	W of tank farm S bldg area #3	Soil	100% Soil	No Asbestos Detected using PLM	6% Cellulose 6% Fiberglass 88% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							
S-138D	330705	W of tank farm S bldg area #3	Subsurface soil	100% Soil	No Asbestos Detected using PLM	1% Cellulose 1% Fiberglass 98% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							
S-140	330706	Area E bldg #30 below steam piping	Soil	100% Soil	No Asbestos Detected using PLM	6% Cellulose 3% Fiberglass 2% Synthetic 89% Non-Fibrous Material	PF 11/24/97
No asbestos detected in sample							



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Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description	Analyst Comment	Analyst - Date
		<i>Material Description(s)</i>	<i>Asbestos Content</i>	<i>Non-Asbestos Content</i>
S-140D	330707	Area E bldg #30 below steam piping Subsurface soil		PP 11/24/97
		100% Soil	No Asbestos Detected using PLM	1% Cellulose 99% Non-Fibrous Material
No asbestos detected in sample				

Additional testing is recommended for any material which contains <1% asbestos or NOB (non-friable organically bound) bulk materials which are negative or <1% asbestos. Analysis by Polarized Light Microscopy (PLM) has a degree of uncertainty that is dependent on the sample matrix, non-asbestos minerals present, size of the asbestos present, the sample homogeneity and analyst variability. PLM coefficients of variance range from approx. 1.8, at the quantitation limit of 1%, to 0.1 at high fiber concentrations. All PLM analyses must be reviewed with these factors taken into consideration.

These results are submitted pursuant to Chopra-Lee, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results or recommendations are used or interpreted. These results pertain only to the items tested. Any reproduction of this document must include the entire document in order for the report to be valid. Certification by NIST through NVLAP or New York State through ELAP does not constitute government endorsement of this testing facility. Unless notified in writing to return the samples



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Laboratory Report

Client: **ACRES International**
140 John James Audubon Pkwy.
Amherst, NY 14228

Laboratory Project # **NY711332**
Project Manager: **Paul Chopra**
Start Date: **11/25/97**
Report Date: **11/26/97**
Analysis Type: **Lead Content**

Attention: **Andrew Klimek**
Project Reference # **P11760.05**
Purchase Order #
Project: **Bulk Sample Analysis**
LOOW WWTP

Authorized Signature

Paul S. Chopra, Laboratory Manager

Analysis Results Table

Client Sample #	Lab Sample #	Sample Location / Worker ID	Analyte	Method	Sample Size	Sample Concentration	Analysis Date
Somerset Group Property							
Samples submitted by ACRES International on 11/25/97							
L-001	332594	Interior bldg beam 1st floor	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.00896 wt%	11/26/97
L-002	332595	Exterior stairway railing 1st floor	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0187 wt%	11/26/97
L-003	332596	Interior door 1st floor	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0351 wt%	11/26/97
L-004	332597	Corrugated roof deck 2nd floor	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0324 wt%	11/26/97
L-005	332598	Interior bldg beam 2nd floor	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0144 wt%	11/26/97
L-006	332599	Corrugated roof deck 2nd floor N end	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0191 wt%	11/26/97
L-007	332600	Interior window trim 2nd floor	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.170 wt%	11/26/97
L-008	332601	Diamond back metal floor 2nd floor	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0936 wt%	11/26/97
L-009	332602	Water line paint 2nd floor	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0142 wt%	11/26/97
L-010	332603	Interior stairway railing 2nd floor	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0342 wt%	11/26/97
L-011	332604	Interior W-wing 24" process piping 1st floor	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.117 wt%	11/26/97
L-012	332605	Scaffolding 1st floor yellow W-wing	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	11.6 wt%	11/26/97
L-013	332606	W-wing 1st floor metal flashing	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.00758 wt%	11/26/97



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Analysis Results Table

Client Sample #	Lab Sample #	Sample Location / Worker ID	Analyte	Method	Sample Size	Sample Concentration	Analysis Date
L-014	332607	Exterior stairway railing W-wing	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0368 wt%	11/26/97
L-015	332608	2nd floor W-wing hopper	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	3.80 wt%	11/26/97
L-016	332609	Door frame / exterior door	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.313 wt%	11/26/97
L-017	332610	Stairway landing interior	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0233 wt%	11/26/97
L-018	332611	Outside stairwell and railing	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0330 wt%	11/26/97
L-019	332612	Interior wall on cinder block	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0858 wt%	11/26/97
L-020	332613	Exterior wall on cinder block	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0187 wt%	11/26/97
L-021	332614	Interior ceiling joists	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.324 wt%	11/26/97
L-022	332615	Area #5 exterior door frame / door	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.182 wt%	11/26/97
L-023	332616	Area #5 fluorescent light fixture	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0854 wt%	11/26/97
L-024	332617	Area #5 exterior on cinder block	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.00685 wt%	11/26/97
L-025	332618	Bldg #30 Exterior block paint	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.00752 wt%	11/26/97
L-026	332619	Bldg #30 cinder block walls	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.00669 wt%	11/26/97
L-027	332620	Bldg #30 bathroom	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0111 wt%	11/26/97
L-028	332621	Bldg #30 cinder block wall	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	<0.00492 wt%	11/26/97
L-029	332622	Bldg #30 loading dock platform	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	6.81 wt%	11/26/97
L-030	332623	Bldg #41 garage doors S-side	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.595 wt%	11/26/97
L-031	332624	Bldg #41 interior boiler	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	1.29 wt%	11/26/97
L-032	332625	Bldg #41 Interior doorway near boiler	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	1.28 wt%	11/26/97
L-033	332626	Bldg #41 bathroom cinder block	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0140 wt%	11/26/97
L-034	332627	Bldg #41 plaster ceiling	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.00832 wt%	11/26/97
L-035	332628	Bldg #41 E-wall door / jam / steel beams	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	1.12 wt%	11/26/97



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Analysis Results Table					Sample Size	Sample Concentration	Analysis Date
Client Sample #	Lab Sample #	Sample Location / Worker ID	Analyte	Method			
L-036	332629	Bldg #41 W-side garage door	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	4.46 wt%	11/26/97
L-037	332630	Bldg #41 W-side main door	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	1.27 wt%	11/26/97
L-038	332631	Bldg #41 Red electrical box rear office	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	7.81 wt%	11/26/97
L-039	332632	Guard House wall	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.00528 wt%	11/26/97
L-040	332633	Guard House back wall / door/ window	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.943 wt%	11/26/97
L-041	332634	Bldg #30A entrance door / jam	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	3.86 wt%	11/26/97
L-042	332635	Bldg #30A cinder block walls	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.216 wt%	11/26/97
L-043	332636	Bldg #30A entrance door / jam	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.295 wt%	11/26/97
L-044	332637	Area 21 interior walls / windows	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.412 wt%	11/26/97
L-045	332638	Area 21 interior steel beams	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.596 wt%	11/26/97
L-046	332639	Bldg #31 door paint	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	2.19 wt%	11/26/97
L-047	332640	Bldg #31 exterior block	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.00558 wt%	11/26/97
L-048	332641	Bldg #31 ceiling	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0531 wt%	11/26/97
L-049	332642	Bldg #31 interior door	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	4.18 wt%	11/26/97
L-050	332643	Bldg #31 wall equipment room	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.0137 wt%	11/26/97
L-051	332644	Bldg #31 window S-side	Pb	PAINT - AA Flame/ASTM D3335A	1.00 g	0.392 wt%	11/26/97

These results are submitted pursuant to Chopra-Lee, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. These results pertain only to the items tested. Unless notified in writing to return the samples covered by this report, Chopra-Lee, Inc. will store what remains of the samples for a period of 15 days before discarding, unless otherwise required by law.



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Appendix C

Asbestos Removal - Level of Effort Estimate

**TABLE C-1
BUILDING 6-01 AND AREA A SOILS**

Remedial Construction/Removal Item Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
						Assumption: Open air variance would be obtained. Area A = 43,000 sq ft (810 cu yd) (see Figure 5-1).
Mobilization/demobilization	1	LS	N/A	N/A	2 days	Assume one mobilization event for entire job.
Remote personnel decontamination facility (for entire site)	1/site	weeks	3	Trailer #1	12 weeks	Rental of portable decontamination unit with bathrooms. Three man crew for one day to set up trailer.
Materials decontamination facility (area/building specific)	1/area	LS	20	Wood, metal studs, polyethylene sheeting	5 days	Constructed at each structure to clean equipment and scrap materials. Materials would be cleaned by a combination of airless wash or power spray, HEPA vacuuming, or wiping.
Field office and services	1/site	weeks	2	Trailer #2	12 weeks	Construction trailer for management personnel including site supervisor, air monitor, and health and safety officer.
Clearing and grubbing	4	days	24	Dozer, backhoe, chainsaws	4 days	Means 0211001080010 and 0211001540010. Assume 44,000 sq ft for Area A soils at 6-inch depth = 825 cu yd.
Step 1 - Removal of friable and loose asbestos-containing materials	5	days	50	Hand tools, 10-man crew	1 week	Physical loading of ACMs into bags and then rolloff boxes. Assume 10 rolloff loads.
Step 2 - Movement, decontamination, and staging of all equipment, machinery, and debris	15	days	150	Crane, forklift, backhoe, airless sprayers, pressure washers, HEPA vacs, holding tanks	3 weeks	Movement of all machinery and equipment to materials decontamination facility for washing. All water to be collected, filtered, and released on-site. Crane needed to remove hoppers from second floor (one day use). Materials cleaned prior to disposal as non-ACM waste.
Step 3 - Cleanup of loose and friable ACM remaining after equipment cleanup	1	day	10	HEPA vacs, shovels, 10-man crew	1 day	Cleanup of ACMs collected after Step 2.
Step 4 - Decon of building structure and floors	10	days	100	HEPA vacs, shovels, airless sprayers, 10-man crew	2 weeks	HEPA vacuum concrete floor, wet wipe structure (lower third each floor).
Remediation air monitoring/project monitor - Personal - Site - Decontamination facility	60	days	60	Personal air samplers	12 weeks	Assume three samplers plus two backups required for the duration of the asbestos cleanup.

TABLE C-1 (Cont'd)
BUILDING 6-01 AND AREA A SOILS

Remedial Construction/Removal Item Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
Analytical costs - Air samples - Confirmation for removal action	180 (3x60) 10/10	each each	-- --	PCM samples, soil/wipe	12 weeks	Daily air samples to include workers, decon trailer, and site. Confirmation sampling to include soil and surface wipe samples.
Excavation	825	Cy	50	75 hp dozer, 5 men, loader, 2 trucks	2 weeks	Means 0222002422420. Assume two men with dump trucks per day for 10 days, two equipment operators, and one laborer.
Backfilling with topsoil	825	Cy	28	F.E. loader, 7 men, 5 trucks	4 days	Means 0221002082400. Assume backfilled material is all topsoil. One equipment operator, five men with dump trucks for four days, one laborer.
Seeding	44,000	sq ft	2	Tractor spreader	1 day	Means 0293003084100. Use tractor spreader with operator and laborer.
Health and safety plan monitoring (project supervisor)	60	days	60		12 weeks	Health and safety officer.

**TABLE C-2
BUILDING 6-02**

Remedial Construction/Removal Items Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
						Assumption: Full building containment (see Figure 5-1).
Mobilization/demobilization	1	LS	N/A	N/A	--	Covered under initial mobilization.
Remote personnel decontamination facility	1/site	days	--	Trailer #1	4 days	Decon trailer and work trailer set up during estimate for Area 6-01. Durations are cumulative and must be added for each area.
Materials decontamination facility (area/building specific)	N/A	LS	N/A	N/A	--	
Field office and services	1/site	days	--	Trailer #2	4 days	Construction trailer for management personnel including site supervisor, air monitor, and health and safety officer.
Clearing and grubbing	N/A	days	--	--	--	Covered under tasks for Building 6-01.
Step 1 - Removal of friable and loose asbestos-containing materials	2	days	10	Hand tools, 5-man crew	2 days	Establish airlocks, physical loading of ACMs into bags and then rolloff boxes. Assume 0.5 rolloff loads including bagged PPE equipment.
Step 2 - Movement, decontamination, and staging of all equipment, machinery, and debris	1	day	5	HEPA vacs, negative air units, shovels	1 day	Cleaning equipment used during asbestos removal. Five-man crew.
Step 3 - Cleanup of loose and friable ACM remaining after equipment cleanup	N/A	day	--	--	--	
Step 4 - Decon of building structure and floors	1	day	5	Wet wipe, HEPA vac	1 day	HEPA vacuum concrete floor, wet wipe structure.
Remediation air monitoring/project monitor - Personal - Site - Decontamination facility	4	days	4	Personal air samplers	4 days	Assume three samplers plus two backups required for the duration of the asbestos cleanup by air sampling technician.
Analytical costs - Air samples - Confirmation for removal action	12 (3x4) 3/3	each each	-- --	PCM samples Soil/wipe	4 days	Daily air samples to include worker, decon trailer, and site. Confirmation sampling to include soil and surface wipe samples.
Excavation	N/A	Cy	--	--	--	

TABLE C-2 (Cont'd)
BUILDING 6-02

Remedial Construction/Removal Items Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
Backfilling with topsoil	N/A	Cy	--	--	--	Clearing and grubbing, excavation, backfilling, and seeding covered under Building 6-01, Area A Soils.
Seeding	N/A	sq ft	--	--	--	
Health and safety plan monitoring (project supervisor)	4	days	4	--	4 days	Health and safety officer.

**TABLE C-3
BUILDING 6-03**

Remedial Construction/Removal Items Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
						Assumption: Full building containment (see Figure 5-1).
Mobilization/demobilization	1	LS	N/A	N/A	--	Covered under initial mobilization.
Remote personnel decontamination facility	1/site	days	--	Trailer #1	4 days	Decon trailer and work trailer set up during estimate for Area 6-01. Durations are cumulative and must be added for each area.
Materials decontamination facility (area/building specific)	N/A	LS	N/A	N/A	--	
Field office and services	1/site	days	--	Trailer #2	4 days	Construction trailer for management personnel including site supervisor, air monitor, and health and safety officer.
Clearing and grubbing	N/A	days	--	--	--	Covered under tasks for Building 6-01.
Step 1 - Removal of friable and loose asbestos-containing materials	2	days	10	Hand tools, 5-man crew	2 days	Establish airlocks, physical loading of ACMs into bags and then rolloff boxes. Assume 0.5 rolloff loads including bagged PPE equipment.
Step 2 - Movement, decontamination, and staging of all equipment, machinery, and debris	1	day	5	HEPA vacs, negative air units, shovels	1 day	Cleaning equipment used during asbestos removal. Five-man crew.
Step 3 - Cleanup of loose and friable ACM remaining after equipment cleanup	N/A	day	--	--	--	
Step 4 - Decon of building structure and floors	1	day	5	Wet wipe, HEPA vac	1 day	HEPA vacuum concrete floor, wet wipe structure.
Remediation air monitoring/project monitor - Personal - Site - Decontamination facility	4	days	4	Personal air samplers	4 days	Assume three samplers plus two backups required for the duration of the asbestos cleanup by air sampling technician.
Analytical costs - Air samples - Confirmation for removal action	12 (3x4) 3/3	each each	-- --	PCM samples Soil/wipe	4 days	Daily air samples to include worker, decon trailer, and site. Confirmation sampling to include soil and surface wipe samples.
Excavation	N/A	Cy	--	--	--	

TABLE C-3 (Cont'd)
BUILDING 6-03

Remedial Construction/Removal Items Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
Backfilling with topsoil	N/A	Cy	--	--	--	Clearing and grubbing, excavation, backfilling, and seeding covered under Building 6-01, Area A Soils.
Seeding	N/A	sq ft	--	--	--	
Health and safety plan monitoring (project supervisor)	4	days	4	--	4 days	Health and safety officer.

**TABLE C-4
BUILDING 30A**

Remedial Construction/Removal Items Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
						Assumption: Full building containment (see Figure 5-1).
Mobilization/demobilization	1	LS	N/A	N/A	--	Covered under initial mobilization.
Remote personnel decontamination facility	1/site	weeks	--	Trailer #1	3 weeks	Rental of portable decontamination unit.
Materials decontamination facility (area/building specific)	1/area	LS	12	Wood, metal stud, polyethylene, 4-man crew	3 days	Constructed at structure to clean equipment. Equipment will be cleaned by a combination of airless wash or power spray, HEPA vacuuming, or wiping.
Field office and services	1/site	weeks	--	Trailer #2	3 weeks	Construction trailer for management personnel including site supervisor, air monitor, and health and safety officer.
Clearing and grubbing	N/A	days	--	--	--	
Step 1 - Removal of friable and loose asbestos-containing materials	2	days	10	Hand tools, 5-man crew	2 days	Physical loading of ACMs into bags and then rolloff boxes. Assume one rolloff load.
Step 2 - Movement, decontamination, and staging of all equipment, machinery, and debris	7	days	35	Airless sprayers, pressure washers, HEPA vacs, 5-man crew	7 days	Movement of all machinery and equipment to materials decontamination facility for washing. All water to be collected, filtered, and released on-site. Materials cleaned prior to disposal as non-ACM waste.
Step 3 - Cleanup of loose and friable ACM remaining after equipment cleanup	1	day	5	HEPA vac, shovels, 5-man crew	1 day	Cleanup of ACMs collected after Step 2.
Step 4 - Decon of building structure and floors	2	days	10	HEPA vac, wet wipe, 5-man crew	2 days	HEPA vacuum concrete floor and wet wipe structure.
Remediation air monitoring/project monitor - Personal - Site - Decontamination facility	15	days	15	Personal air samplers	3 weeks	Assume three samplers plus two backups required for the duration of the asbestos cleanup by air sampling technician.
Analytical costs - Air samples - Confirmation for removal action	45 (3x15) 10	each each	-- --	PCM samples Wipe samples	3 weeks	Daily air samples to include worker, decon trailer, and site. Confirmation sampling to include surface wipe samples.
Excavation	N/A	Cy	--	--	--	
Backfilling with topsoil	N/A	Cy	--	--	--	

TABLE C-4 (Cont'd)
BUILDING 30A

Remedial Construction/Removal Items Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
Seeding	N/A	sq ft	--	--	--	
Health and safety plan monitoring (project supervisor)	15	days	15	--	3 weeks	Health and safety officer.

TABLE C-5 (Cont'd)
BUILDING 6-01 WEST - AREA B SOILS

Remedial Construction/Removal Items Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
Backfilling with topsoil	830	Cy	28	F.E. loader, 7-man crew, 5 trucks	4 days	Means 0221002082400. Assume backfilled material is all topsoil due to shallow depth, 1 equipment operator, five-man crew with dump trucks per day for four days, one laborer.
Seeding	45,000	sq ft	2	Tractor spreader, two-man crew	1 day	Means 0293003084100. Use tractor spreader with operator and laborer.
Health and safety plan monitoring (project supervisor)	20	days	20	--	4 weeks	Health and safety officer.

TABLE C-6
PROCESS AREAS 3 AND 5 - AREA C SOILS

Remedial Construction/Removal Items Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
						Assumption: Area C = 98,000 sq ft (1,815 cu yd) (see Figure 5-1).
Mobilization/demobilization	1	LS	N/A	N/A	--	Covered under initial mobilization.
Remote personnel decontamination facility	1/site	weeks	--	Trailer #1	10 weeks	Rental of portable decontamination unit.
Materials decontamination facility (area/building specific)	N/A	LS	N/A	--	--	
Field office and services	1/site	weeks	--	Trailer #2	10 weeks	Construction trailer for management personnel including site supervisor, air monitor, and health and safety officer.
Clearing and grubbing	8	days	48	6-man crew, dozer, backhoe, saws	8 days	Means 0211001080010 and 0211001540010. Assume 98,000 sq ft (350 ft by 280 ft by 0.5 ft) for Area C soils.
Step 1 - Removal of friable and loose asbestos-containing materials	2	days	8	4-man crew, hand tools	2 days	Physical loading of transite panels and other ACMs into the rolloff. Assume three rolloff loads.
Step 2 - Movement of debris	5	days	25	F.E. loader, backhoe, 5-man crew	2 days	Segregation and removal of all large scrap. Loading of all small scrap into rolloffs using F.E. loader for disposal. Assume five rolloff loads.
Step 3 - Cleanup of loose and friable ACM remaining after equipment cleanup	2	days	10	Backhoe/loader with 5-man crew	2 days	Steps 1, 2, and 3 are continuous and associated with the removal of the debris and ACMs from Area C soils. Assume two rolloff loads.
Step 4 - Decon of building structure and floors - N/A	N/A	days	--	--	--	
Remediation air monitoring/project monitor - Personal - Site - Decontamination facility	50	days	50	Personal air samplers	10 weeks	Assume three samplers plus two backups required for the duration of the asbestos cleanup by air sampling technician.
Analytical costs - Air samples - Confirmation for removal action	150 (3x50) 10	each each	-- --	PCM samples Soil samples	10 weeks	Daily air samples to include worker, decon trailer, and site. Confirmation sampling to include soil sampling.

**TABLE C-7
BUILDINGS 27 AND 31 - AREA D SOILS**

Remedial Construction/Removal Items Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
						Assumption: Area D = 8,000 sq ft (300 cu yd) (see Figure 5-1).
Mobilization/demobilization	1	LS	N/A	N/A	--	Covered under initial mobilization.
Remote personnel decontamination facility	1/site	weeks	--	Trailer #1	8 days	Rental of portable decontamination unit.
Materials decontamination facility (area/building specific)	N/A	LS	N/A	--	--	
Field office and services	1/site	weeks	--	Trailer #2	8 days	Construction trailer for management personnel including site supervisor, air monitor, and health and safety officer.
Clearing and grubbing	1	day	3	3-man crew, dozer, backhoe, saws	1 day	Means 0211001080010 and 0211001540010. Assume 8,000 sq ft (40 ft by 400 ft by 0.5 ft) for Area D soils.
Step 1 - Removal of friable and loose asbestos-containing materials	1	day	3	3-man crew, hand tools	1 day	Physical loading of transite panels and other ACMs into the rolloff. Assume one rolloff load.
Step 2 - Movement, decontamination, and staging of equipment - N/A	N/A	days	--	--	--	
Step 3 - Cleanup of loose and friable ACM remaining after equipment cleanup N/A	N/A	days	--	--	--	
Step 4 - Decon of building structure and floors - N/A	N/A	days	--	--	--	
Remediation air monitoring/project monitor - Personal - Site - Decontamination facility	8	days	8	Personal air samplers	8 days	Assume three samplers plus two backups required for the duration of the asbestos cleanup by air sampling technician.
Analytical costs - Air samples - Confirmation for removal action	24(3x8) 6	each each	-- --	PCM samples Soil samples	8 days	Daily air samples to include worker, decon trailer, and site. Confirmation sampling to include soil sampling.
Excavation	300	Cy	18	75 hp dozer, 6-man crew, loader, 3 trucks	3 days	Means 0222002422420. Assume three men with dump trucks per day for three days, two equipment operators, and one laborer.

TABLE C-7 (Cont'd)
BUILDINGS 27 AND 31 - AREA D SOILS

Remedial Construction/Removal Items Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
Backfilling with topsoil	300	Cy	10	F.E. loader, 5-man crew, 3 trucks	2 days	Means 0221002082400. Assume backfilled material is topsoil, one equipment operator, three-man crew with dump trucks per day for two days, one laborer.
Seeding	8,000	sq ft	2	Tractor spreader, two-man crew	1 day	Means 0293003084100. Use tractor spreader with operator and laborer.
Health and safety plan monitoring (project supervisor)	8	days	8	--	8 days	Health and safety officer.

**TABLE C-8
AREA 18N - AREA E SOILS**

Remedial Construction/Removal Items Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
						Assumption: Area E = 8,000 sq ft (1,010 cu yd) (see Figure 5-1).
Mobilization/demobilization	1	LS	N/A	N/A	--	Covered under initial mobilization.
Remote personnel decontamination facility	1/site	weeks	--	Trailer #1	6 weeks	Rental of portable decontamination unit.
Materials decontamination facility (area/building specific)	N/A	LS	N/A	--	--	
Field office and services	1/site	weeks	--	Trailer #2	6 weeks	Construction trailer for management personnel including site supervisor, air monitor, and health and safety officer.
Clearing and grubbing	10	days	40	4-man crew, dozer, backhoe, saws	2 weeks	Means 0211001080010 and 0211001540010. Assume 54,400 sq ft (320 ft by 170 ft by 0.5 ft) for Area E soils.
Step 1 - Removal of friable and loose asbestos-containing materials	3	days	9	3-man crew, hand tools	3 days	Physical loading of transite panels and other ACMs into the rolloff. Assume two rolloff loads.
Step 2 - Movement, decontamination, and staging of equipment - N/A	N/A	days	--	--	--	
Step 3 - Cleanup of loose and friable ACM remaining after equipment cleanup N/A	N/A	days	--	--	--	
Step 4 - Decon of building structure and floors - N/A	N/A	days	--	--	--	
Remediation air monitoring/project monitor - Personal - Site - Decontamination facility	30	days	30	Personal air samplers	6 weeks	Assume three samplers plus two backups required for the duration of the asbestos cleanup by air sampling technician.
Analytical costs - Air samples - Confirmation for removal action	90(3x30) 10	each each	-- --	PCM samples Soil samples	6 weeks	Daily air samples to include worker, decon trailer, and site. Confirmation sampling to include soil sampling.
Excavation	1,010	Cy	50	75 hp dozer, 5-man crew, loader, 2 trucks	10 days	Means 0222002422420. Assume two men with dump trucks per day for 10 days, two equipment operators, and one laborer.

TABLE C-8 (Cont'd)
AREA 18N - AREA E SOILS

Remedial Construction/Removal Items Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
Backfilling with topsoil	1,010	Cy	30	F.E. loader, 6-man crew, 4 trucks	5 days	Means 0221002082400. Assume backfilled material is topsoil, one equipment operator, four-man crew with dump trucks per day for five days, one laborer.
Seeding	54,400	sq ft	4	Tractor spreader, two-man crew	2 days	Means 0293003084100. Use tractor spreader with operator and laborer.
Health and safety plan monitoring (project supervisor)	30	days	30	—	6 weeks	Health and safety officer.

**TABLE C-9
AREA 21 - AREA F SOILS**

Remedial Construction/Removal Items Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
						Assumption: Area F = 18,000 sq ft (333 cu yd) (see Figure 5-1).
Mobilization/demobilization	1	LS	N/A	N/A	--	Covered under initial mobilization.
Remote personnel decontamination facility	1/site	weeks	--	Trailer #1	3 weeks	Rental of portable decontamination unit.
Materials decontamination facility (area/building specific)	N/A	LS	N/A	--	--	
Field office and services	1/site	weeks	--	Trailer #2	3 weeks	Construction trailer for management personnel including site supervisor, air monitor, and health and safety officer.
Clearing and grubbing	4	days	16	4-man crew, dozer, backhoe, saws	4 days	Means 0211001080010 and 0211001540010. Assume 18,000 sq ft (120 ft by 150 ft by 0.5 ft) for Area F soils.
Step 1 - Removal of friable and loose asbestos-containing materials	1	days	4	4-man crew, hand tools	1 day	Physical loading of transite panels and other ACMs into the rolloff. Assume 0.5 rolloff load.
Step 2 - Movement of debris	2	days	8	F.E. loader, backhoe, 4-man crew	2 days	Segregation and removal of all large scrap. Loading of all small scrap into rolloffs using F.E. loader for disposal. Assume 1.5 rolloff loads.
Step 3 - Cleanup of loose and friable ACM remaining after equipment cleanup	1	day	4	Backhoe/loader with 4-man crew	1 day	Steps 1, 2, and 3 are continuous and associated with the removal of the debris and ACMs from Area F soils.
Step 4 - Decon of building structure and floors - N/A	N/A	days	--	--	--	
Remediation air monitoring/project monitor - Personal - Site - Decontamination facility	15	days	15	Personal air samplers	3 weeks	Assume three samplers plus two backups required for the duration of the asbestos cleanup by air sampling technician.
Analytical costs - Air samples - Confirmation for removal action	45(3x15) 10	each each	-- --	PCM samples Soil samples	3 weeks	Daily air samples to include worker, decon trailer, and site. Confirmation sampling to include soil sampling.

TABLE C-9 (Cont'd)
AREA 21 - AREA F SOILS

Remedial Construction/Removal Items Description	Quantity	Unit	No. Man Days	Equipment	Total Task Duration	Remarks
Excavation	330	Cy	20	75 hp dozer, 5-man crew, loader, 2 trucks	4 days	Means 0222002422420. Assume two men with dump trucks per day for four days, two equipment operators, and one laborer.
Backfilling with topsoil	330	Cy	12	F.E. loader, 6-man crew, 4 trucks	2 days	Means 0221002082400. Assume backfilled material is all topsoil due to shallow depth, one equipment operator, four-man crew with dump trucks per day for two days, one laborer.
Seeding	18,000	sq ft	2	Tractor spreader, two-man crew	1 day	Means 0293003084100. Use tractor spreader with operator and laborer.
Health and safety plan monitoring (project supervisor)	15	days	15	--	3 weeks	Health and safety officer.

TABLE C-10
SUMMARY OF MANPOWER ESTIMATE FOR
AREAS OF RECOMMENDED EXCAVATION
SOMERSET GROUP PROPERTY
LOOW

Task Description and Manpower Estimates (based on means construction cost data 1996)	Area A (Man Days)	Area B (Man Days)	Area C (Man Days)	Area D (Man Days)	Area E (Man Days)	Area F (Man Days)
Area and volume of proposed excavation shown on Figure 5-1 (depth of all excavations ±6 inches).	43,800 sq ft 810 cu yd	44,800 sq ft 830 cu yd	98,000 sq ft 300 cu ft	16,000 sq ft 300 cu yd	54,400 sq ft 1,010 cu yd	118,000 sq ft 333 cu yd
1. <u>Clearing and Grubbing</u> - Site conditions (i.e., presence of footers, process area foundations, scattered debris and scrap) resulted in a level of effort multiplier of between one and two be applied to the Means daily output/labor hours estimate.						
1.1 Clearing - (Means Reference No. 021 100 108 0010). Laborer with chain saw (means assumes 32 hours/acre).	8	8	16	3	12	8
1.2 Selective Clearing - (Means Reference No. 021 100 154 0010). Work conducted using 1.5 cu yd backhoe and B-17 crew (means assumes 16 hours/acre for up to 60 6-inch trees/acre with four-man crew, one dump truck, and one backhoe).	16	16	32		28	8
2. <u>Excavation</u> - (Means Reference No. 022 200 242 2420). Work assumes an open site with common earth, 300-ft haul with dozer and B-10L crew. Some hand excavation to be required around footers and foundations. (Means assumes 100 cu yd/ day with two-man crew and one dozer). Manpower added to load and drive dump trucks to disposal site. Haulage work force requirements vary depending on task duration and volume of material to be excavated. A level of effort multiplier of between one and two was applied depending on site-specific conditions.	50	50	100	18	50	20
3. <u>Backfilling</u> - (Means Reference No. 022 100 208 2400, Alternate 029 200 204 3850). Work assumes an open site with common backfill, 300-ft haul with dozer/grader/tractor spreader, and B-10L crew. Some hand spreading to be required around footers and foundations. (Means assumes 330 cu yd/day with two-man crew and one dozer). Manpower added to load and drive dump trucks to the site. Haulage work force requirements vary depending on task duration and volume of material to be excavated. A level of effort multiplier of between one and two was applied depending on site-specific conditions	28	28	60	10	30	12
4. <u>Topsoiling/Seeding</u> - (Means Reference No. 029 300 308 4100). Work assumes that the backfilled material is all topsoil, therefore only seeding required per task. Application of shade mix grass seed with tractor spreader and B-66 crew. (Means assumes 52,000 sq ft/day with one equipment operator and one loader with attachment). Manpower estimates modified to include additional laborer and/or lower productivity for areas where hand spreading may be required.	2	2	6	2	4	2

Appendix D

Asbestos Certification

Niagara County Community College
Division of Lifelong Learning
Certificate of Completion

This is to certify that:

Anthony Dell'isola

SS# [REDACTED]

has successfully completed the requisite training for
U.S. EPA - TSCA Title II and New York State Department of Health - Part 73
for the

Asbestos Inspector Refresher Training Program

on


December 5, 1997


Dean of Lifelong Learning
Niagara County Community College

Date of Examination: **December 5, 1997**

Date of Expiration: **December 5, 1998**

Date of Birth: **January 16, 1967**


Director of Corporate Training
Niagara County Community College



Certificate No. **IR 2139**

Niagara County Community College
Division of Lifelong Learning
Department of Corporate Training
PO Box 70
Lockport, NY 14095
(716) 433-1856

PARADIGM ENVIRONMENTAL SERVICES

179 LAKE AVENUE ROCHESTER, NY 14608

(716) 647-2530

certifies that

William A. Pomerhn

Redacted-Privacy

has satisfactorily completed the

Project Designer Refresher Course

This course is approved by the New York State Department of Health as per 10 NYCRR Part 73.
and by the United States EPA as per 40 CFR Part 763

Course Date: May 8, 1997

Expiration Date: May 8, 1998

Certificate Number PDESR:213078

Exam Date: Not required

Exam Grade: None

Arthur L. Bragg, Jr.
Director of Training

Arthur L. Bragg, Jr.
Instructor

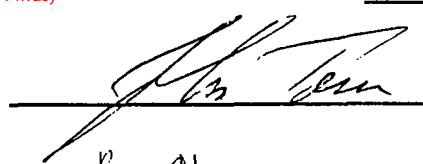
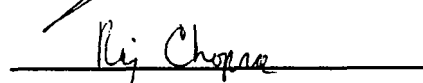
Chopra-Lee, Inc.

1815 Love Road, Grand Island, New York 14072 (716) 773-9192

This is to certify that the below named individual has successfully
completed all requirements for the

ASBESTOS INSPECTOR/ MANAGEMENT PLANNER REFRESHER COURSE

for purposes of accreditation required by the New York State
Department of Health & U.S. Environmental Protection Agency.

Name	<u>William A. Pomerhn</u>	Dated the	<u>2nd</u>	day of	<u>June</u>	, 19	<u>97</u>
Date of Birth	<u>Redacted-Privacy</u>	Training Location	<u>Grand Island</u>				
Social Security No.	<u>Redacted-Privacy</u>	Certificate No.	<u>210607</u>				
Director of Training	<u></u>	Expiration Date	<u>06/02/98</u>				
President	<u></u>	Classroom lecture	8 hours				

Chopra-Lee, Inc.

1815 Love Road, Grand Island, New York 14072 (716) 773-7625

This is to certify that the below named individual has
successfully completed all classroom, hands-on and
examination requirements for the asbestos

INSPECTOR TRAINING COURSE

for purposes of accreditation required by the New York
State Department of Health & U.S. Environmental
Protection Agency.

Name Andrew Klimek

Dated the 30th day of October, 19 97

Date of Birth Redacted-Privacy

Dates of Attendance From 10/28/97 to 10/30/97

Social Security No. Redacted-Privacy

Certificate No. 213330

Director of Training 

Expiration Date 10/30/98

President 