Report



Site Investigation Salvation Army Site

Syracuse, New York

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SITE INVESTIGATION SALVATION ARMY SITE BURT STREET SYRACUSE, NEW YORK

Prepared for

SYRACUSE HOUSING AUTHORITY 516 Burt Street Syracuse, New York 13202

Prepared by

S&W Redevelopment of North America, LLC 430 East Genesee Street Syracuse, New York 13202

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1.0 - INTRODUCTION

The Syracuse Housing Authority (SHA) is considering acquiring several properties in the vicinity of its Burt Street headquarters. SHA's goal is to improve the marketability and aesthetics of the neighborhood by removing elements from the surrounding properties that pose potential physical hazards to the community, and otherwise diminish the quality of this urban residential neighborhood. Accordingly, property specific environmental concerns must be identified and characterized so that issues in connection with site ownership can be managed appropriately. S&W Redevelopment of North America, LLC (SWRNA), was retained by SHA to investigate specific target properties and identify potential environmental concerns that would potentially affect restoration of the properties.

This report presents the findings of a site investigation that was completed at a property known as the Salvation Army site ("Site"), located at the intersection of South State and Burt Streets. The location of the Site, a former underground storage tank (UST), and the preliminary findings of prior investigations justified completion of an environmental site investigation to identify and characterize potential environmental concerns (if any) at the Site. The objective of the investigation was to provide data to evaluate whether site remediation is warranted.

1.1 - SITE DESCRIPTION AND BACKGROUND INFORMATION

The Salvation Army property currently occupies approximately 2.5 acres located at 1105 South State Street in Syracuse, New York (Figures 1-1). The property in its current configuration originally consisted of five separate parcels (Moffa Associates, 1994). The main Site structures have been in place since at least 1951. The four additional parcels located at 1117 South State, 307 Burt, 313 Burt, and the 100 block of Oakwood Avenue, were acquired by the Salvation Army between 1980 and 1987. The parcel located along the 100 Block of Oakwood was previously owned by the Roth Steel Corporation and used as a vehicle garage (Moffa Associates, 1994). The Salvation Army previously used the 50,000 square feet (sq. ft.) concrete block/brick building for a dormitory, office space, warehouse, and clothing distribution/retail center, however, it is presently vacant.

A 2,000-gallon capacity UST facility was installed on the South State Street side of the property sometime before 1986 (Moffa Associates, 1994) and was used to fuel Salvation Army delivery trucks used in the distribution operation. The UST failed testing in April

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1986 (Moffa Associates, 1986), was removed, and replaced with a 5,000-gallon capacity gasoline UST in the same location December 1986 (Moffa Associates, 1994).

In 1998 the 5,000-gallon capacity gasoline tank was removed from along the State Street side of the property (CES, 1998). During excavation, soils containing petroleum constituents were observed. The New York State Department of Environmental Conservation (NYSDEC) was contacted and subsequently assigned Spill No. 97-11143. Four (4) groundwater monitoring wells were installed near the UST area (Figure 2-1) by Certified Environmental Services, Inc. (CES) to assess the nature and extent of impact. Laboratory results of groundwater and soil samples taken by CES indicated the presence of volatile organic compounds (VOCs) indicative of gasoline-related impacts. No documentation of spill closure could be found.

Other investigations (OBG, 1996) included the collection of surface soil samples from portions of the site that were composited and analyzed, revealing the presence of petroleum hydrocarbons (TPH) in site soils. The analyses indicated the presence of both number 6 fuel oil, and lubricating oil, at levels of over one thousand parts per million (ppm).

SECTION 2 - SITE INVESTIGATION METHODS

A field investigation was completed at the site during April and May 2003, to provide a baseline of data for evaluating whether potential sources of environmental concern existed on the property. The field sampling program included surface soil sampling, subsurface soil sampling, monitoring well installation, and groundwater sampling from the monitoring wells. A geophysical survey was completed to help identify subsurface anomalies that might represent potential sources of impact (e.g. underground tanks, buried drums), which might require further site investigation and sampling, and a pre-demolition survey was completed. Sample locations are shown on Figure 2-1. Field methods are discussed below.

2.1 - SOIL BORING AND MONITORING WELL INSTALLATION

Three soil borings were advanced into the subsurface on April 7 and 9, 2003 (B-4, -5, -6, Figure 2-1). Drilling was completed by advancing hollow stem augers to depths ranging from 14- to 16-feet below ground surface (bgs). In addition, soil samples were collected continuously using a 2-inch stainless steel split spoon soil sampler. Soil samples were field screened with a photoionization detector (PID), visually examined, and described by a SWRNA hydrogeologist. Soil observations and PID readings were recorded in subsurface boring logs (Appendix A).

One surface soil (0.0 to 0.5-feet bgs) and one subsurface soil (greater than 2-feet bgs) sample was taken at boring location B-6 and submitted for laboratory analysis. At locations B-4 and B-5, only a deep soil sample was collected because a separate surface soil sample was collected at a location near these borings. Surface soil and subsurface soil sample collection is discussed further in Section 2.2 below.

Following boring completion, 2-inch diameter PVC monitoring wells were constructed in each boring (MW-4, MW-5, and MW-6, respectively). Each monitoring well was constructed with 10-feet of continuous wrap screen (0.01-inch slot), with a #0 silica sand pack extending from the bottom to 1.5-feet above the screen. Two feet of hydrated bentonite pellets were placed on top of the sand filter pack, and the remaining annulus was filled with sand to allow for drainage. The wells were completed and secured with bolt-down flush mount protective covers. Well construction diagrams are included on the subsurface boring logs (Appendix A).

The monitoring wells were developed after installation to reduce turbidity and to improve sample quality. A minimum of 10 volumes of water was removed from each well.

2.2 - SAMPLE COLLECTION

Figure 2-1 identifies the location of soil boring/monitoring and all sampling locations. All soil and water samples were placed in sample containers, provided by Severn Trent Laboratories, Inc. (STL), which contained the necessary sample preservative for analyses as appropriate (e.g. hydrochloric acid – HCl). The samples were then packed in ice filled coolers, and shipped via overnight delivery to STL. An Analytical Services Protocol (ASP) Category B data deliverable was provided.

2.2.1 Surface Soil Sampling

Eight surface soil samples (SS-1 through SS-7 and B-6) were collected between April 7 - 9, 2003. Soil samples SS-1 and SS-6 were collected from soil beneath asphalt material. SS-1 was collected in an area where a sink hole caused paving to cave in. All of the surface soil samples were collected from the upper six (6) inches using either collected in an isolated area using dedicated stainless steel trowel ("SS" samples), or at boring locations using split spoon samplers ("B" samples, as discussed in Section 2.1). All eight surface soil samples were analyzed for target compound list (TCL) semi-volatile organic compounds (SVOCs) by USEPA Method 8270C, PCBs by USEPA Method 8082, and target analyte list (TAL) metals by USEPA Methods 6010B/7471A.

2.2.2 Sub-Surface Soil Sampling

One sub-surface soil sample was selected from each of the three soil boring locations. The sub-surface soil sample was selected for laboratory analysis based on PID readings or field observation (e.g. color, odor) that suggested the potential presence of constituents of environmental concern. Based on this screening method, sub-surface soil samples from borings B-4, -5, and -6 were collected from 4- to 6-feet bgs, 8- to 10-feet bgs, 6- to 8-feet bgs, respectively. Soil boring samples were submitted for laboratory analysis for TCL volatile organic compounds (VOCs) by EPA Method 8260, TCL SVOCs, PCBs, and TAL metals (Methods 6010B/7471A).

2.2.3 Groundwater Sampling

One groundwater sample was collected from each of the three newly installed monitoring wells (MW-4, -5, -6) and the four pre-existing monitoring wells (CES, 1998) on April 28 and 29, 2003. Prior to sampling, the depth to water was recorded and the well was then purged of at least three volumes of water. Field parameters were recorded including turbidity, pH, temperature, and dissolved oxygen. Groundwater samples were collected and sent to a laboratory for TCL VOCs, TCL SVOCs, PCBs, and TAL metals analysis.

2.2.4 Wipe Samples

PCB wipe samples were collected from the building interior as part of the interior building pre-demolition inspection. The three wipe samples (SA-WS-1, SA-WS-2, SA-WS-3) were collected from selected areas, including near a floor drain, adjacent to a garage bay door, and adjacent to a clothing bailer machine. Each wipe sample was collected by wiping the floor surface with a 10-cm by 10-cm, hexane dampened gauze pad. Following collection, each sample was placed in a vile and then shipped to STL for PCB analysis by EPA Method 8082.

2.2.5 Additional Sampling

A possible floor drain was identified in the building warehouse and identified as an additional area of potential concern. A sample was collected from this suspected drain as part of the site investigation (Figure 1-2):

Floor Drain - A small amount of sediment was present within the drain. A sample of this sediment was collected and shipped to STL to be analyzed for VOCs, SVOCs, metals, and PCBs.

2.3 - GEOPHYSICAL SURVEY

A geophysical survey was completed at the Site on May 29, 2003, by Enviroscan, Inc. of Lancaster Pennsylvania. The survey employed a combination of electromagnetic (EM) and GPR methods, and was intended to detect and delineate targets with at least one dimension of five feet or greater, up to 10 feet below grade.

The survey area at the site included approximately 56,000 square feet, and included terrain covered with mainly asphalt with areas of high grass. Areas with thick vegetation, and areas close to scraps or piles of metal debris, could not be surveyed.

A detailed discussion of the survey methods can be found in the Geophysical Survey Report, Appendix B (Enviroscan, 2003). The survey area was first scanned with a Fisher TW-6 deep-focused metal detector (MD), with an approximate 5-foot grid. Electromagnetic anomalies were further defined using a GSSI SIR-2 GPR controller and 500-megaHertz scanning antenna. The GPR survey was performed by hand towing the antenna along variously oriented profiles that crossed the electromagnetic anomalies.

2.4 – SITE SURVEY

Bryant Associates, PC, a New York State licensed land surveyor, completed a site survey that identified sample locations, building locations, and property boundaries. Monitoring well locations and elevations were also surveyed. The survey was used to create a base map for the site. Site elevations are based on a relative elevation datum of 100-feet assigned to the first floor of the building occupying the former Salvation Army property at 1105 South State Street. Property boundaries and site features are located based on a City of Syracuse survey datum. Depth to groundwater measurements at each monitoring well were referenced to the surveyed well elevation to determine groundwater elevation and groundwater flow direction. A survey base map is provided in Appendix C.

2.5 - ASBESTOS SURVEY

An asbestos survey was completed at the site to identify both friable and non-friable organically bound asbestos. Envirologic of New York, Inc completed an asbestos survey, according to the New York State Department of Labor's (NYSDOL) asbestos standard as specified in subpart 56-1.9(b)(2)(3). A total of fifty-two (52) samples were collected from materials on the site and analyzed for asbestos content. Specific information regarding sample collection and analytical methods can be found in Appendix D.

SECTION 3 – SITE INVESTGATION RESULTS

3.1 SITE GEOLOGY

The three soil borings (B-4, B-5, B-6) were advanced in the eastern portion of the site to depths of 16-feet, 16-feet, and 14-feet bgs, respectively. From field observations, the upper five to six feet of soil in the eastern part of the site is a mixture of silt, sand, and gravel. A clay unit was encountered at approximately 6.5 feet bgs, and contains variable amounts of sand and silt, with occasional sand/silt seams. Between 12- to 14-feet bgs a sandy silt unit was observed below the clay. Soil borings advanced previously as part of the UST investigation on the northwest portion of the site (CES, 1998) indicate the subsurface is composed predominantly of silt and clay with variable amounts of sand and fine gravel. Groundwater was encountered in the site borings between 4- and 6-feet bgs.

3.2 SAMPLE ANALYTICAL RESULTS

Laboratory analytical reports for the samples collected at the Site are provided under separate cover (SWRNA, July 2003) Analytical results were compared to applicable standards, criteria, and guidance (SCGs), including Technical and Administrative Guidance Memorandum (TAGM) 4046 soil cleanup objectives, and Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards. Analytical summary Tables are included as Tables 3-1 through 3-12. A discussion of the field observations and analytical results is provided below.

3.2.1 Surface Soils

Analytical results for the surface soil samples are summarized on Figure 3-1 (SVOCs and PCBs), Figure 3-2 (mercury, arsenic, chromium, lead), and Tables 3-1 through 3-3.

A. SVOCs. The majority of the SVOCs detected in surface soils are polycyclic aromatic hydrocarbons (PAHs), which are a subclass of SVOCs found in a variety of common sources including petroleum distillates (fuel oil, diesel fuel), vehicular exhaust, coal, and coal by-products. As such, PAHs are common contaminants in urban and industrial areas.

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All eight (8) of the surface soil samples contained SVOCs above TAGM cleanup objectives (Table 3-1). The average total SVOC concentration of surface soil samples collected was 67.7 mg/Kg and total SVOC concentrations ranged from 2.15 mg/Kg (SS-6) to 282 mg/Kg (SS-2). Sample SS-2 was taken from boring B-4, south of a former loading dock area, and contained seven SVOCs above TAGM objectives. Sample SS-1, located in the southwestern portion of the property, contained 157 mg/Kg total SVOCs, which is the second-highest concentration among the surface soil samples, and also contained seven SVOCs above TAGM objectives. The average total SVOC concentration among the other six surface soil sample locations (SS-3, SS-4, SS-5, SS-6, SS-7, B-6) was noticeably lower, at 17.1 mg/Kg.

- **B.** PCBs. PCBs were detected in seven of the eight samples (Table 3-2). However, only one sample (SS-5) contained total PCBs (1.16 mg/Kg) above the 1 mg/Kg TAGM cleanup objective.
- C. Metals. Metals are naturally occurring in all soils, and accordingly there were metals detected in every surface soil sample. Eight (8) metals were detected above TAGM cleanup objectives: arsenic, beryllium, chromium, copper, iron, mercury, nickel, and zinc (see Table 3-3). Only iron and zinc were above the cleanup objective in all eight of the surface soil samples. Copper and nickel were above TAGM cleanup objectives in five of the samples, chromium in four of the samples, arsenic and mercury in two of the samples, and beryllium in one of the sample.

3.2.2 Sub-Surface Soils

The three soil borings (B-4, B-5, B-6) were advanced to depths of 16-feet, 16-feet, and 14-feet bgs, respectively. Volatile organic vapors, based on soil screening with a PID, were detected in all fifteen (15) of the split-spoon soil samples collected from borings B-4 and B-5, but no organic vapors were detected in the six samples collected from boring B-6. Only three soil samples (B-4 from 2- to 4-feet bgs and 4 to 6-feet bgs, and B-5 from 0- to 2-feet bgs) had readings over 1 part per million (ppm).

Based on soil screening, one sub-surface soil sample was selected from each boring (B-4 4-to 6-feet, B-5 8- to 10-feet bgs, B-6 6- to 8-feet bgs). The laboratory analytical results for the subsurface soil samples are summarized on Tables 3-4 through 3-7.

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- **A. VOCS.** A total of five (5) different VOCs were detected in sub-surface soil samples; however, all of the VOCs were below TAGM cleanup objectives (Table 3-4). Note also that one of the detected compounds, methytlene chloride, was found in a laboratory blank and is probably related to laboratory contamination.
- **B. SVOCs.** The soil sample from boring B-4 (4-6 feet) contained the highest number of SVOCs, with lighter SVOC compounds detected. The other two samples from borings B-5 and B-6 contained noticeably lower levels of SVOCs, each sample containing only a single compound (bis-2ethylhexyl-phthalate), at 0.27 mg/Kg and 0.39 mg/Kg, respectively.

The detected concentrations of SVOCs were all below TAGM values except for three compounds in sample B-4.

- **C. PCBs.** No PCBs were detected in the subsurface soil samples (Table 3-7).
- **D.** Metals. Beryllium, chromium, copper, iron, nickel, and zinc were detected in subsurface soils above TAGM cleanup objectives (Table 3-8). Chromium, iron, nickel, and zinc were above the cleanup objective in all three of the sub-surface soil samples. Copper and beryllium were above TAGM objectives only in the sample from B-4.

3.2.3 - Groundwater

Table 3-8 includes the depth to water and groundwater elevation measurements, as well as field parameter measurements recorded at the time of sampling. Groundwater analytical results are summarized on Tables 3-9 through 3-12. Figure 3-3 shows the groundwater flow direction across the site.

The depth to groundwater at the site on April 28, 2003 was 7.11-feet at MW-4, 6.55-feet at MW-5, and 6.68-feet at MW-6 (upgradient). The depth to groundwater data were converted to groundwater elevations based on the surveyed elevation for the top of each well casing. Based on the April 28 measurements, groundwater flows from east to west across the site. Monitoring wells MW-4 and -5 are downgradient.

A. VOCs. Four compounds were detected (methylene chloride, benzene, xylenes, and tetrachloroethene) but only benzene (MW-16) exceeded Class GA ambient water quality standards. Methylene chloride (1 ug/L) was detected in well MW-4, but it was also detected

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in a laboratory method blank, which indicates laboratory contamination. Tetrachloroethene was detected in MW-5 (2 ug/L), and xylenes were detected in MW-15, and MW-16. Wells MW-14 through -16 were previously installed (CES, 1998) in the former UST area in the northwestern corner of the site.

- **B. SVOCs.** Only one SVOC chrysene in well MW-17 was detected in groundwater samples above Class GA standards. Of the seven wells sampled, only MW-15 and MW-17 contained detectable SVOCs, but concentrations were generally very low. MW-17 contained 9.9 ug/L total SVOCs, and MW-15 contained 1 ug/L total SVOCs.
- **C. PCBs**. No PCBs were detected in the groundwater samples.
- **D. Metals.** Five metals iron, manganese, magnesium, mercury and sodium were detected in groundwater samples above Class GA ambient water quality standards. Four of these metals (iron, manganese, magnesium, sodium) are common natural elements that often exceed standards in this region. Iron, magnesium, and sodium were above standards in all four wells, and manganese in two wells (MW-4, MW-6). Mercury was detected in well MW-5 (4.6 ug/L). The presence of these metals is likely related to natural water quality and elevated turbidity of the water samples.

3.2.4- Wipe Samples

PCBs were detected in each of the three wipe samples collected from the warehouse floor. Aroclor 1254 was detected at a concentration of 1.9-, 1.7-, and 0.81- ug/wipe (100 cm²) in wipe sample SA-WS-1, -2, and -3, respectively. However, none of the wipe samples exceeded the surface PCB clean up standard of 100 ug/100 cm² for low occupancy areas (40 CFR Part 761.61(a), June 2003).

3.2.5 Additional Samples

- A. VOCs. Methylene chloride was the only VOC detected in the sample taken from the warehouse drain (SA-DS-1), however, it was detected in the method blank and is likely related to laboratory contamination.
- **B.** SVOCs. A total of 19 SVOCs were detected in the in sample SA-DS-1. The concentration of SVOCs ranged from 0.32 mg/kg (acenapthylene) to 19 mg/kg (bis (2-

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ethylhexyl) pthalate). The total concentration of SVOCs was 69 mg/kg, or 50 mg/kg excluding bis (2-ethylhexyl) phthalate, which was detected in a method blank, which suggests it is a laboratory contaminant.

- C. PCBs. The total PCB concentration of sample SA-DS-1 was 2.05 mg/kg. Two aroclors- Aroclor 1254 and Aroclor 1260- were detected at 1.6 mg/kg and 0.45 mg/kg, respectively.
- **D. Metals.** Twenty (20) of the twenty-three (23) metals included on the target analyte list were detected in sample SA-DS-1. The concentration of mercury, chromium, and lead were detected at a concentration of 11.4-, 65.7-, and 833-mg/kg, respectively.

3.3 GEOPHYSICAL SURVEY

The geophysical survey report provided by Enviroscan, Inc. is included as Appendix B of this report. In general, the GPR penetration at the site was good, with an average depth of penetration approximately 7- to 8-feet bgs.

Six metallic anomalies were observed at the site (Figure 3-4). Four of the anomalies had characteristics that indicate numerous small buried objects and debris. Two of the anomalies (SA4 and SA5) had characteristics that suggest the possibility of a buried drum (SA4) and an underground tank (SA5). However, these anomalies may also represent debris oriented in similar dimensions as a drum or tank.

3.4 ASBESTOS SURVEY

The results of the asbestos survey indicated that approximately 21,000 square feet (sq.ft.) of asbestos containing materials (ACMs) are present in, and on, the Salvation Army building. ACMs include floor tiles, ceiling material, pipe insulation, felt paper, mastic material, transite, roof flashing, and various roofing material. Most of the ACM that was sampled was described to be in "fair" condition, but some material was found to be in "poor" condition, including pipe insulation and associated fitting insulation found in portions of the building basement. Specific details concerning the quantity of ACM and specific analytical results can be found in Appendix D.

SECTION 4 – QUALITATIVE EXPOSURE ASSESSMENT

A qualitative exposure assessment was completed for the site, in accordance with NYSDOH guidance. The assessment consisted of the following steps:

- 1. Characterizing the exposure setting, including the physical environment and potentially exposed human populations;
- 2. Identifying exposure pathways;
- 3. Evaluating contaminant fate and transport.

The purpose of the exposure assessment is to evaluate whether on-site and off-site human receptors, under both existing and possible future site conditions, can potentially be exposed to site-related contaminants. Accordingly, the exposure assessment considers the site in its current state, and also considers future site occupancy scenarios that might occur if the site or surrounding areas were ever redeveloped for an alternate use.

Human receptors are potentially exposed to contaminants only if there is a complete exposure pathway. An exposure pathway describes the way in which a site-related constituent can potentially reach a human receptor, based on existing site conditions and future scenarios. An exposure pathway has five elements:

- 1. a contaminant source;
- 2. contaminant release and transport mechanisms;
- 3. a point of exposure;
- 4. a route of exposure;
- 5. a receptor population.

The manner in which humans could potentially be exposed to each medium (e.g. soil or groundwater) was evaluated to determine whether complete pathways exist, based on current and future land-use scenarios.

If a complete or potentially complete exposure pathway is identified for a particular medium, the concentrations of each constituent detected that medium are evaluated to determine if the concentrations could potentially represent a health risk. This is done by calculating an exposure point concentration, which is usually based on the average or maximum detected value for each constituent in a specific medium. The exposure concentration is compared to an appropriate regulatory screening value, which is based on conservative exposure assumptions, to determine if the constituent is a constituent of potential concern (COPC).

The result of the process is a generally conservative assessment of the potential for humans to be exposed to site related constituents. The degree of conservatism depends on the actual site conditions in comparison with the standard set of assumptions that are used, however, as a general rule the exposure potential and related risks tends to be overestimated.

The following sections describe the step-wise process that was completed for the Salvation Army site exposure assessment, including site characterization, an assessment of potential exposure pathways, and the screening of COPCs.

4.1 - DETERMINATION OF EXPOSURE PATHWAYS

The land use and environmental setting of a site will, to a large degree, determine the amount of potential risk to human health posed by site conditions. Land use determines the extent to which potential receptors could contact impacted media (air, soil, and water). The environmental setting of the site also determines the relative importance of transport of chemicals through the various media. This information is then integrated into an evaluation of current and future pathways by which exposure to site-related chemicals may occur.

A proposed future use of the former Salvation Army property is a combination of residential and urban parkland. Residents and passers-by may potentially be exposed to the site-related contaminants of concern. The medium that offers the greatest exposure opportunity is site surface soils. The most probable pathways are direct contact, inhalation, and accidental ingestion of soils. Exposure to subsurface soils will only occur under potential future site redevelopment scenarios in which soil excavation is necessary. In this case, the exposed population would be site construction and utility workers. Exposure to groundwater is considered to be highly unlikely, since the area is serviced by a municipal water supply.

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4.2 - DETERMINATION OF EXPOSURE CONCENTRATIONS

Analytical results for soil and groundwater were screened to identify contaminants of concern and potential exposure concentrations. Because fewer than 20 samples were collected for each medium (e.g. soil and water), the maximum detected concentration for each parameter per each medium was used as an exposure point concentration. Maximum parameter concentrations in soil samples that exceed USEPA Health Based Cleanup Objectives (TAGM 4046-VOCs, SVOCs, and PCBs) and NYSDEC Recommended Soil Cleanup Objectives (TAGM 4046-metals) are considered to be COPCs. Maximum parameter concentrations in groundwater samples that exceed NYSDEC Technical Operational Guidance Series (TOGS) Class GA Water Quality Standards and Guidance Values (June 1998) are also considered COPCs.

4.3 - EXPOSURE TO SURFACE SOIL

Tables 4-1 through 4-3 summarize the screening of surface soils. The maximum detected concentrations for the following parameters exceeded TAGM Cleanup Objectives, and are identified as COPCs:

Benzo(a)anthracene	Mercury	Iron
Benzo(a)pyrene	Arsenic	Nickel
Dibenzo(a,h)anthracene	Beryllium	Zinc
	Cadmium	
PCBs	Chromium	
	Copper	

4.4 - EXPOSURE TO SUBSURFACE SOILS

Tables 4-4 through 4-7 summarize the screening of subsurface soils. As indicated on the tables, the exposure risk to subsurface soils is lower in comparison to surface soils. The maximum detected concentrations for the following parameters exceeded TAGM Cleanup Objectives, and are identified as COPCs:

Benzo(a)anthracene	Beryllium	Nickel
Benzo(a)pyrene	Chromium	Zinc
Dibenzo(a,h)anthracene	Copper	
	Iron	

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4.5 - EXPOSURE TO GROUNDWATER

Groundwater exposure risk is minimized by an available public water supply. Nonetheless, it is customary to assess groundwater exposure risk in terms of its possible consumption as a drinking water source, regardless of its actual potential for such use. One organic compound and six metals were identified as COPCs based on a comparison with TOGS water quality standards and guidance values (Tables 4-8 and 4-9):

Benzene Magnesium

Manganese

Mercury Sodium

Copper Iron

4.6 EXPOSURE ASSESSMENT SUMMARY

Exposure to surface soils by direct contact and accidental ingestion is the only complete exposure route existing at this time. There is future potential for exposure to subsurface soils and groundwater during construction activity, but it is highly unlikely that groundwater would ever be consumed as a water supply.

A screening of surface soils identified thirteen (13) COPCs, including PCBs, three PAHs, and nine metals. For subsurface soils nine (9) COPCs were identified, three PAHs and six metals. Groundwater screening identified seven (7) COPCs, including one organic compound and six metals.

SECTION 5 - SUMMARY AND CONCLUSIONS

A total of eight (8) surface soil, four subsurface soil, seven (7) groundwater, three (3) PCB wipe samples, and one (1) sediment sample from a suspected floor drain, were collected from the Site and analyzed for TCL VOCs (except surface soils and wipe samples), TCL SVOCs (except wipe samples), PCBs, and TAL metals (except wipe samples). In addition, a geophysical survey, a site survey, and an asbestos survey were completed during investigation activities at the site.

5.1 SURFACE SOILS

Semivolatile organic compounds (SVOCs), PCBs, and metals were detected in surface soil samples collected at the site. All eight (8) surface soil samples contained SVOCs and contained at least on SVOC that exceeds TAGM cleanup objectives. Most of the SVOCs detected were PAHs, which are a class of compounds common in fuel oil, diesel fuel, and coal. As such, PAHs are common constituents in urban areas.

PCBs were detected in seven (7) of the eight (8) soil samples. Sample SS-5 (1.16 mg/kg) was the only surface soil sample to contain PCBs at a concentration greater than the TAGM soil quality cleanup objective of 1 mg/kg for soils less than 1-foot bgs.

Although several metals were detected in surface soil samples collected at the site, only six (6) metals were detected at levels that exceed TAGM cleanup objectives. Samples SS-2 and SS-5, on the southeast side of the site building, contained slightly elevated concentrations of mercury relative to the recommended soil cleanup objective of 0.1 mg/kg with 0.29 mg/kg and 1.16 mg/kg of mercury, respectively. Sample SS-5 also contained levels of several other metals that were elevated with respect to other surface soil samples taken at the site.

5.2 SUBSURFACE SOILS

Subsurface soil samples did not contain VOCs above TAGM cleanup objectives.

Sample B-4 (4-6-feet) contained five (5) SVOCs that exceed TAGM cleanup objectives, however, the highest concentration of theses SVOCs is 1.3 mg/kg and the total concentration of SVOCs was 18 mg/kg.

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PCBs were not detected in any of the three (3) subsurface soil samples collected from the site.

Six (6) metals were present in subsurface soils at concentrations above TAGM cleanup objectives. Sample B-4 (4-6-feet) contained six (6) metals that exceed TAGM, and samples B-5 (8-10-feet) and B-6 (6-8-feet) contained four (4) metals each.

5.3 GROUNDWATER

Only one VOC (benzene in MW-16) and one SVOC (chrysene in MW-17) were detected above TOGS Class GA water quality standards in groundwater samples taken at the site.

PCBs were not detected in any of the seven groundwater samples taken from the site.

Five (5) metals detected above standards, four are common natural elements (iron, manganese, magnesium, and sodium), and the fifth metal (mercury) was above standards in only one well (MW-17), and detected in only two of the seven wells.

5.4 WIPE SAMPLES

PCBs were detected in wipe samples taken from the concrete floor within the site building's warehouse. However, none of the wipe samples were above the surface PCB clean up standard of 100 ug/100 cm² for low occupancy areas (40 CFR Part 761.61(a), June 2003).

5.5 ADDITIONAL SAMPLE

Nineteen (19) SVOCs were detected in sample SA-DS-1 taken from the potential drain within the building's warehouse. The concentration of SVOCs ranged from 0.32 mg/kg (acenapthylene) to 19 mg/kg (bis (2-ethylhexyl) phthalate). The total concentration of SVOCs was 69 mg/kg, or 50 mg/kg excluding bis (2-ethylhexyl) phthalate, which is likely a laboratory contaminant based on its presence in a method blank.

The total PCB concentration of sample SA-DS-1 was 2.05 mg/kg. Two aroclors- Aroclor 1254 and Aroclor 1260- were detected at 1.6 mg/kg and 0.45 mg/kg, respectively.

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Twenty (20) of the twenty-three (23) metals included on the target analyte list were detected in sample SA-DS-1. The concentration of mercury, chromium, and lead were detected at a concentration of 11.4-, 65.7-, and 833-mg/kg, respectively.

5.6 GEOPHYSICAL SURVEY

The GPR survey identified six metallic anomalies, four of which appear to represent buried debris and miscellaneous small buried objects. Two anomalies were identified with dimensions that suggest they could represent buried drums or USTs.

5.7 ASBESTOS SURVEY

Asbestos-containing materials (ACMs) were positively identified in various building materials at the site, including ceiling and floor tiles, pipe insulation, mastic, transite, and roofing material. Most of the ACM was reportedly in fair to good condition, but pipe insulation and associated fitting insulation in portions of the basement were reportedly in poor condition.

5.8 SUMMARY

Overall, only minor impacts were observed in samples collected at the site, and these impacts were in surface soil samples. In particular sample SS-5 appears to have the greatest number of analytes that exceed applicable SCGs. Sub-surface soils and groundwater contained noticeably fewer analytes above SCGs, and on that basis appear to be less impacted than surface soils.

Groundwater samples did not contain PCBs. Benzene and chrysene, each detected in a single well, were the only organic compounds detected in groundwater samples above Class GA standards.

Based on this information it appears that there is minimal human exposure risk in relation to subsurface soils and groundwater. There is potential human health exposure risk in relation to surface soils, for three SVOCs, PCBs, and several metals, however; with proper redevelopment planning it is expected that these risks can be limited. Future Site development and restoration will need to consider a strategy for managing potential exposure to surface soils by site occupants.

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Wipe samples taken within the building's warehouse indicate that PCBs were present above detection limits. However, none of the wipe samples exceeded the surface PCB clean up standard of 100 ug/100 cm² for low occupancy areas (40 CFR Part 761.61(a), June 2003) and therefore should not pose a significant risk to human health or the environment.

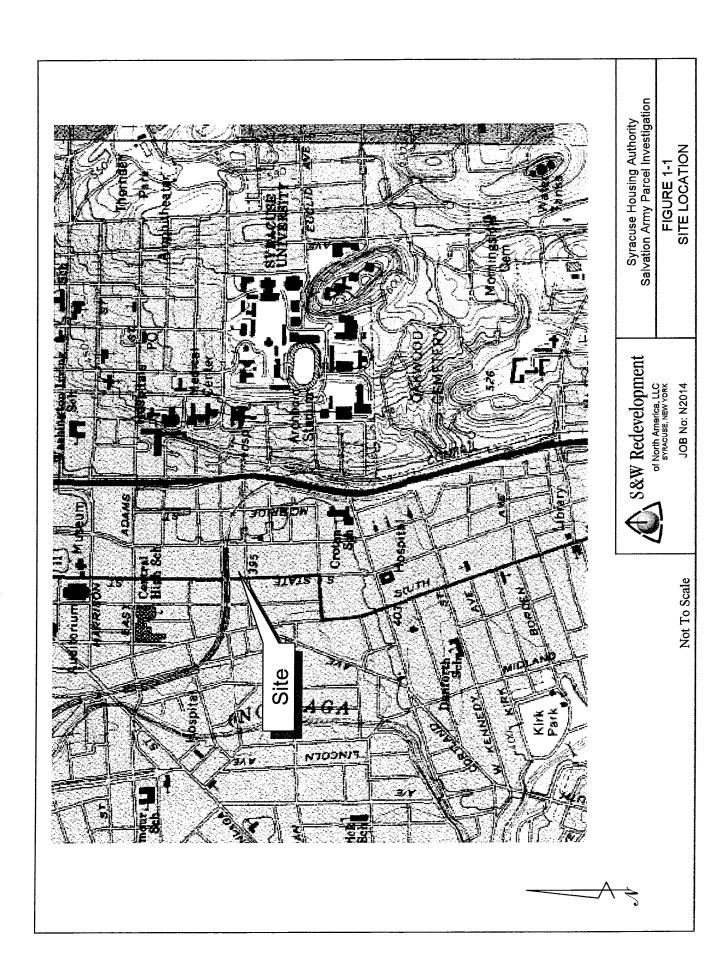
The sample taken from the suspected drain located in the building's warehouse (SA-DS-1) indicates the presence of several SVOCs, PCBs, and metals. Because there is a nominal volume of sediment within the suspected drain, the sediment is not likely to pose a significant health risk. However, if this suspected drain discharges into the ground below the building slab it is possible that constituents of concern have accumulated or released to the environment. Therefore, it is recommended that prior to, or immediately following, building demolition that the area beneath the building slab be investigated.

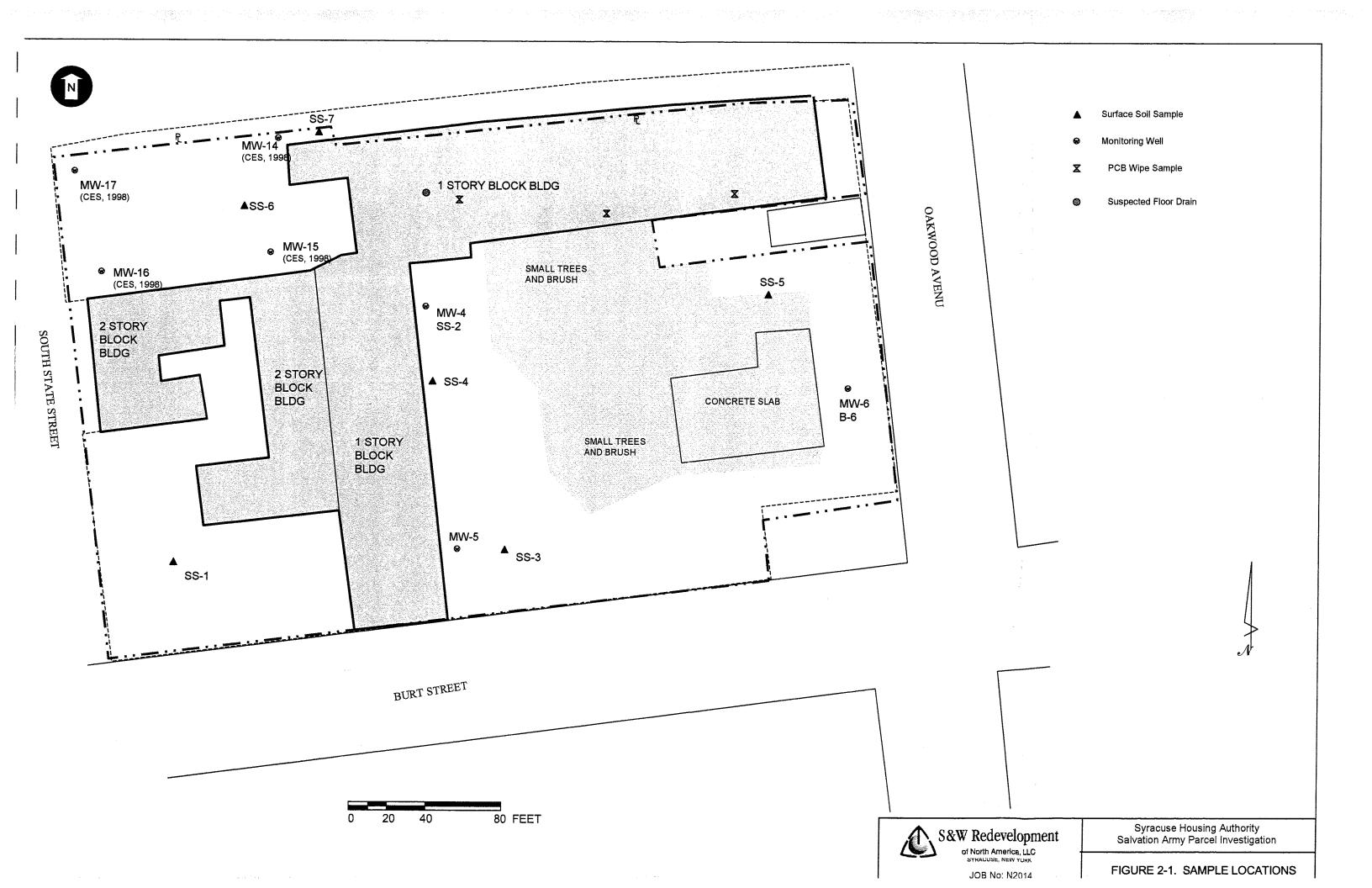
The results of the geophysical survey indicate the possible presence of drums and a UST on the eastern side of the parcel. Although groundwater data do not suggest the presence of USTs or drums, it is recommended that prior to, or immediately following building demolition, this area be investigated to confirm or refute the source of the anomalies. If a UST or drums are identified the materials they contain should be sampled and disposed of in accordance with applicable regulations.

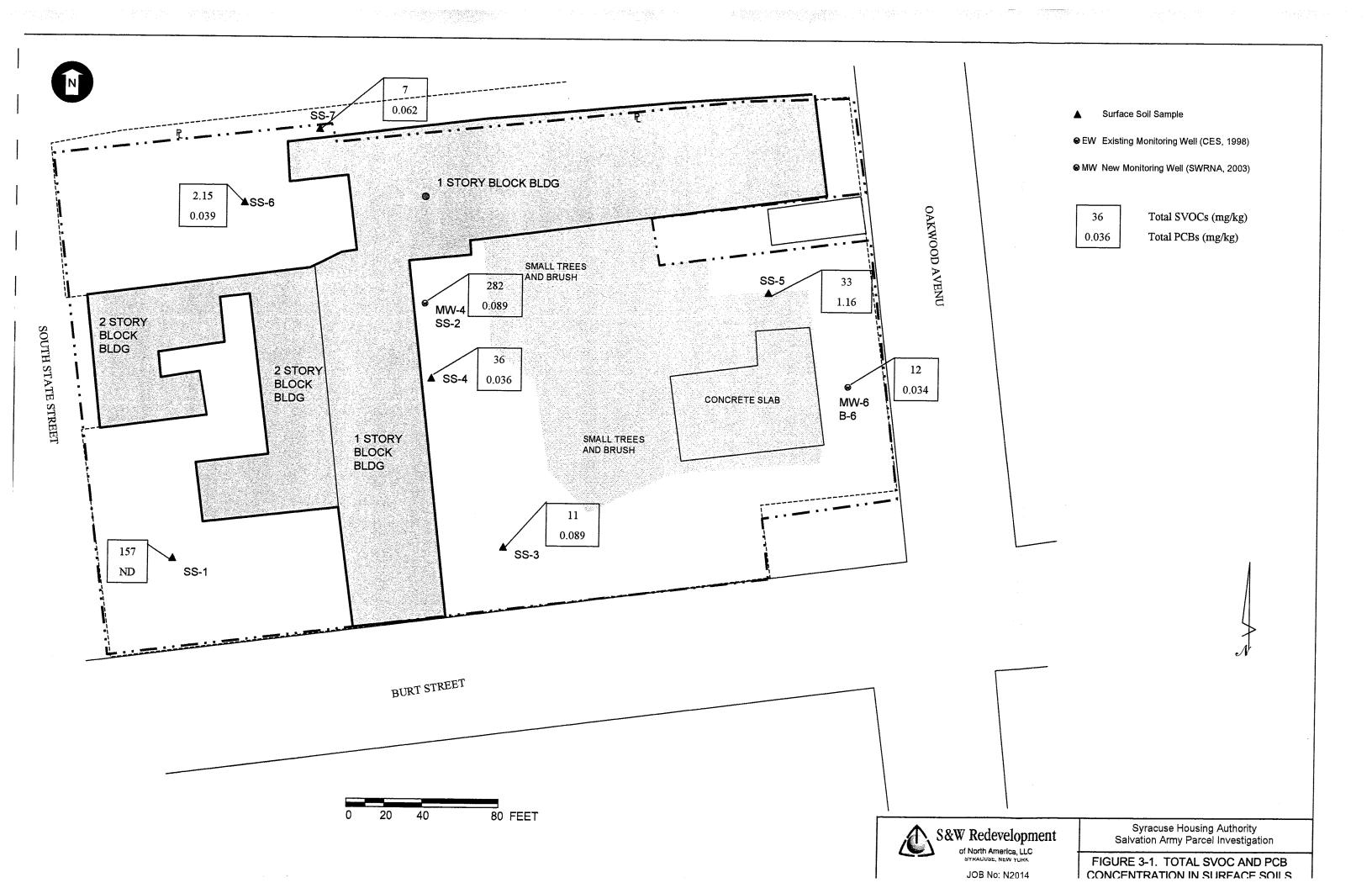
Envirologic's asbestos survey identified the presence of ACM associated with the site building. Identified ACM should be dealt with in accordance with applicable regulations prior to and during building demolition.

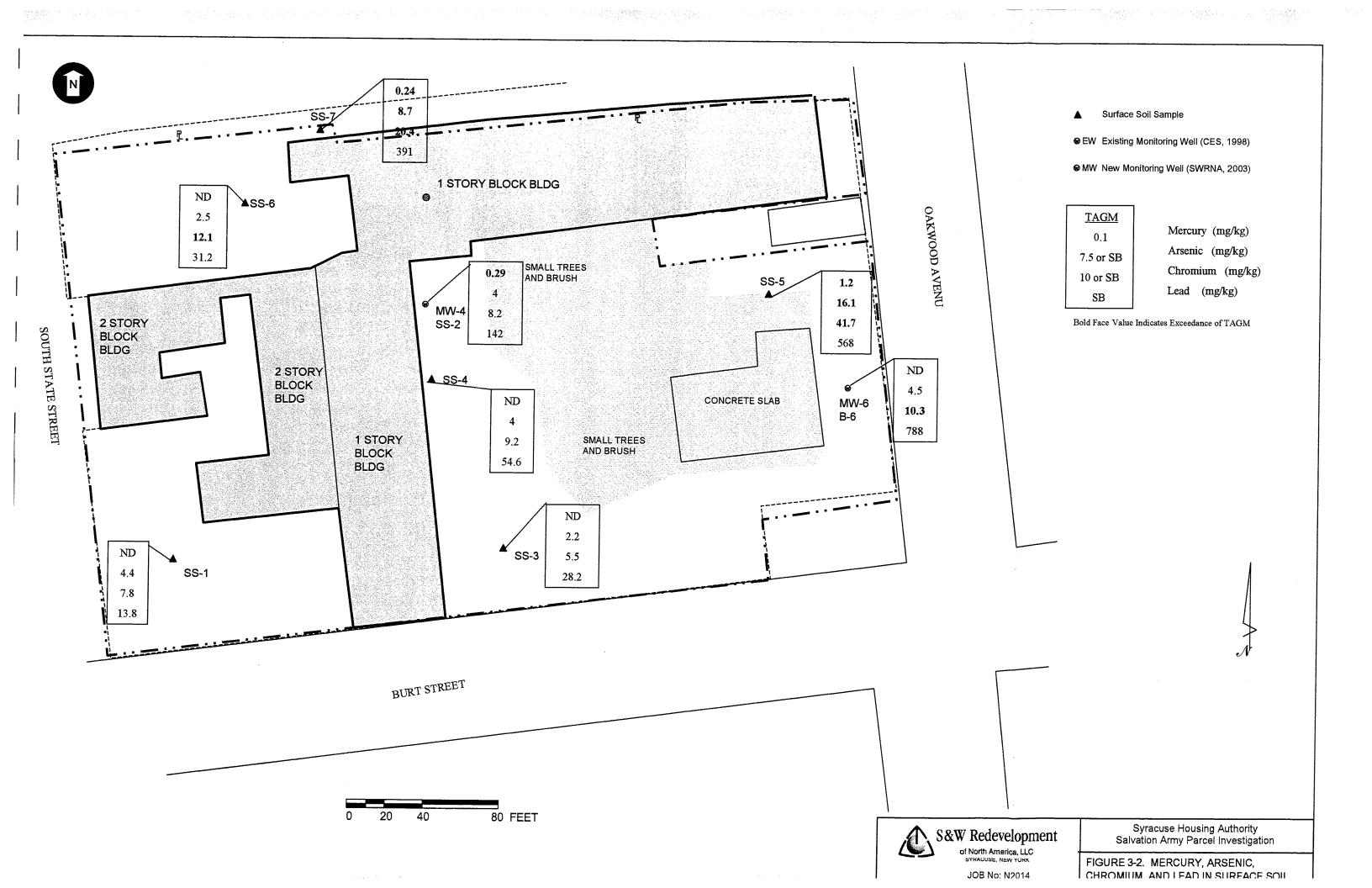
Documentation of NYSDEC Spill No. 97-11143 relating to the UST, formerly located in the northwest portion of the site, could not be ascertained during the course of this investigation. It is recommended that an inquiry be made to determine if the spill has been closed, and if not that the proper steps be followed to establish closure.

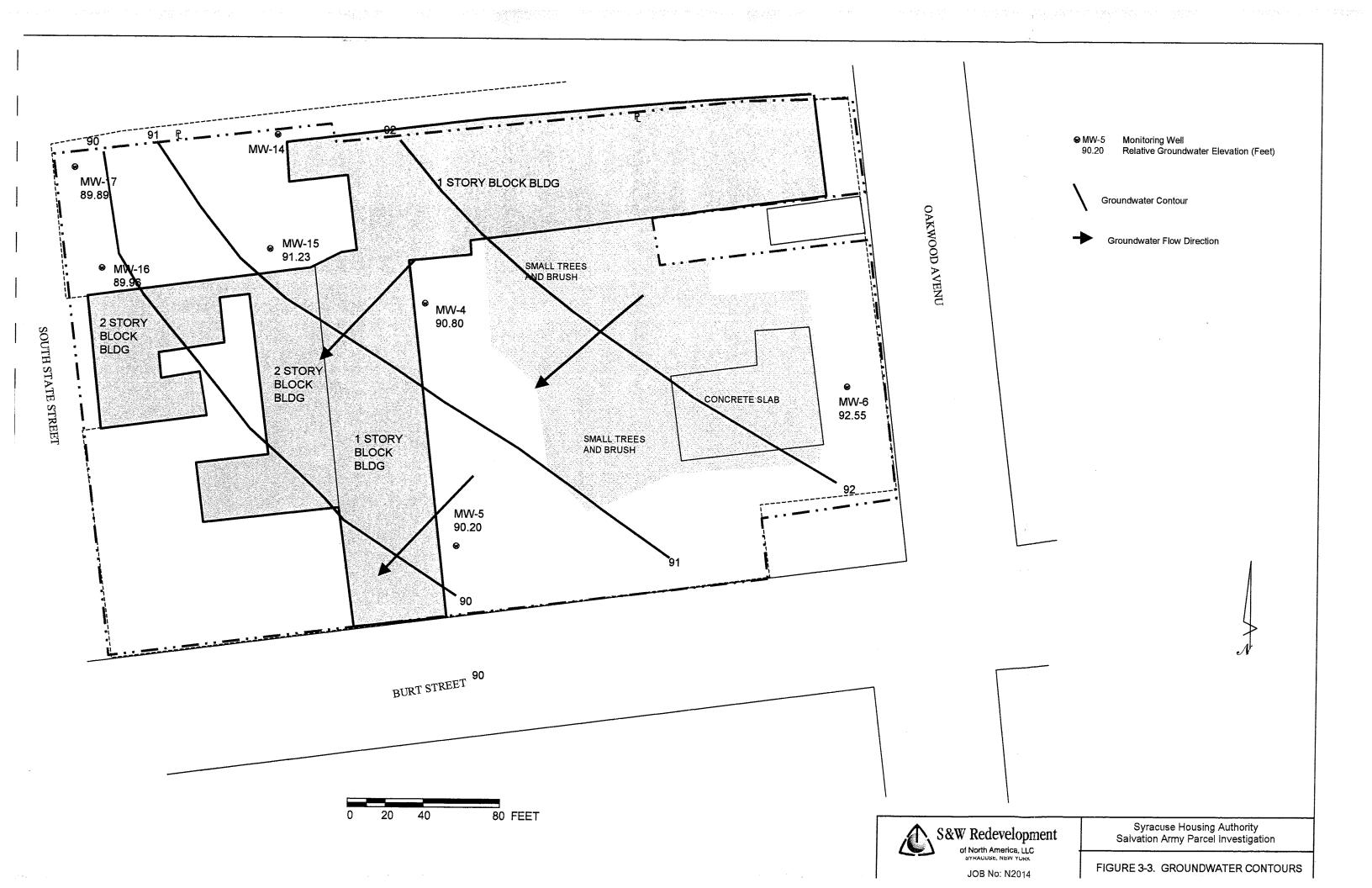
FIGURES











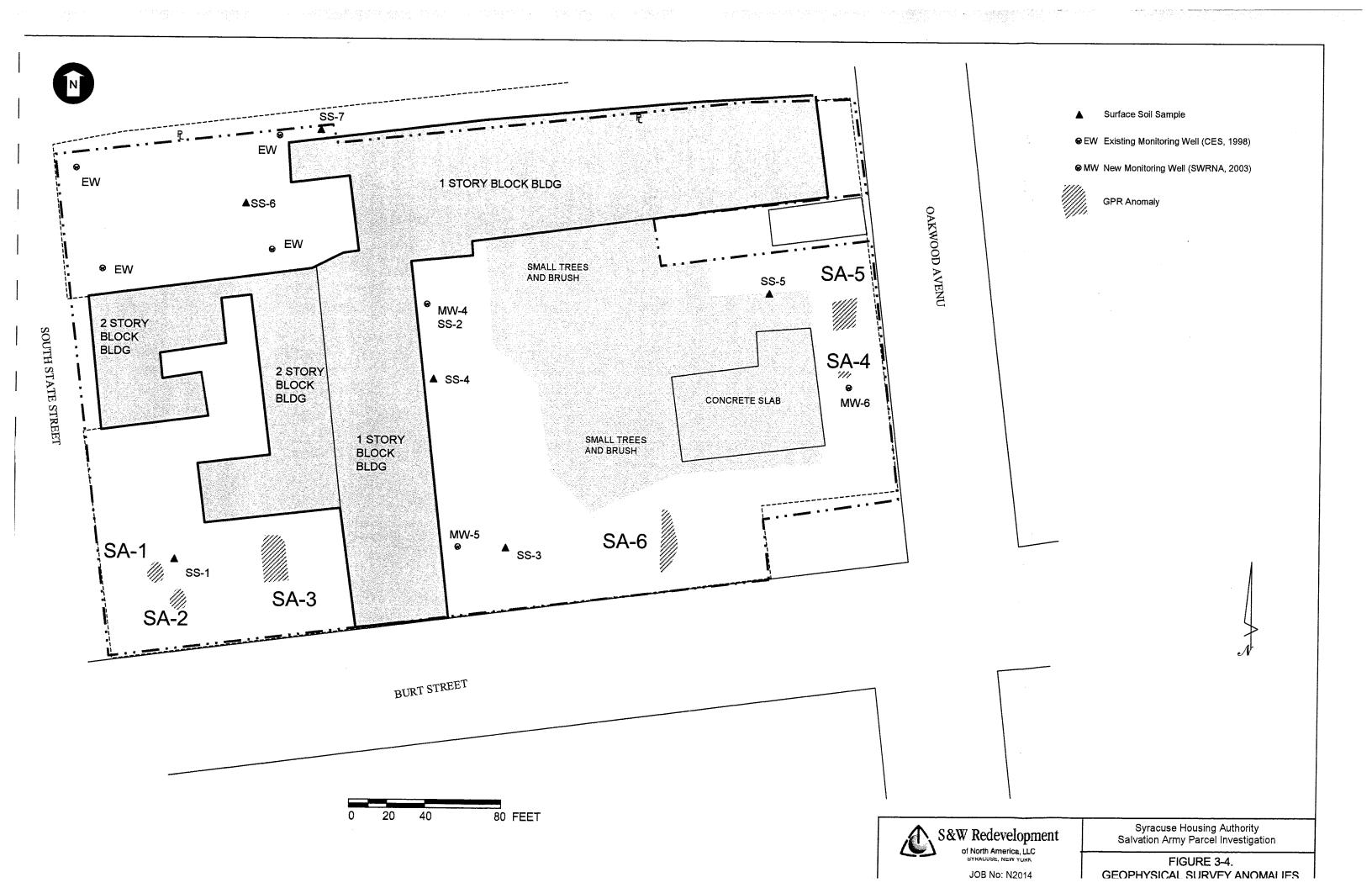


Table 3-1. Surface Soil Analytical Results - Target Compound List Semi-Volatile Organic Compounds. Salvation Army Parcel Investigation. October 2003

COMPOUND	TAGM	SS-1	S	S-2	SS-	3	SS-	-4	SS-	5	SS-	6	SS-	7	B-6	
COMPOUND	STD.*	0-0.5 ft		.5 ft	0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-2	
Phenol			U	U		U		U	1	U	1	U	1	Ü,	0.11	J
Bis(2-chloroethyl)ether			U	U	1	Ü		U	1	Ü	1	Ū		Ū		Ū
1 3-Dichlorobenzene			υİ	U	1	Ū		Ū		Ū		Ū		Ū	İ	Ū
1 4-Dichlorobenzene			ŭΙ	Ũ		Ũ		ŭ		Ŭ		ŭ	1	Ŭ		Ŭ
1 2-Dichlorobenzene	1		ŭ	Ü		Ŭ		ŭ	ļ	Ü	1	Ũ	1	Ŭ		ŭ
Benzyl alcohol		-	ŭ	ŭ		Ü	l	Ü	1	Ü	1	Ü		Ŭ		υ
2-Methylphenol	0.10		υl	Ü		Ü		U		Ü		Ü	1	U		Ü
2 2-oxybis (1-chloropropane)	0.10	i	ŭ	U.			j	U	1	Ü	Į	Ü	1	Ü		
				-	1	U	l				l		1			U
n-Nitroso-di-n-propylamine	ı		U	U		U	ļ	U	1	U	l	U	İ	U		U
Hexachloroethane			U	U		U	1	U		Ų	I	U	l	U	l	U
4-Methylphenol	0.9	1	U	U		U		U	1	U		U	1	U		U
2-Chiorophenol	0.8		U .	U	1	U		U		U		U	1	U		U
Nitrobenzene	0.2	j	U	Ų	1	U		U	1	U		U		U		U
Bis(2-chloroethoxy)methane	1	1	U	U	1	U	ŀ	U	1	U	1	U	1	U		U
1 2 4-Trichlorobenzene	3.4		U	U	!	U		U		U		U	1	U		U
Benzoic acid	2.7		ŭ	Ū		ŭ		ŭ	1	ŭ		ŭ	1	Ũ		Ũ
Isophorone	4.4	19	~	Ü		ŭ		ŭ	1	Ü		ŭ		Ü		Ü
2 4-Dimethylphenol	7.7	1 .9	u l	Ü	1	U		Ü		IJ		Ü		U		U
		F	- 1		1	-				_	1					
Hexachlorobutadiene	1		U	Ų		U		U		U	l	U		U		U
Naphthalene	13	1.6	J 4.6	J	1	U		U	0.83		l	U	0.07	J		U
2 4-Dichlorophenol	0.40	1	U	υ	1	U		U	1	U		U	1	U		U
4-Chloroaniline	0.22	l	U	υ	1	U		U	1	U		U	1	U		U
2 4 6-Trichlorophenol		Ī	U	U	1	υ		U	1	U		U	1	U		U
2 4 5-Trichlorophenol	0.10		U	U		U		U		U	1	U		Ų		U
Hexachlorocyclopentadiene			Ü	Ū		Ŭ		Ū		ũ		Ū		Ū		Ū
2-Methylnaphthalene	36.4		ŭ 2	Ĵ	1	ŭ		ŭ	1.60	•		Ŭ	0.06	J		ŭ
2-Nitroaniline	0.43		ŭ	ű		Ü		Ü	1.00	U		ŭ	0.00	Ü		Ü
2-Chloronaphthalene	0.43		ŭ	Ü	1	U		U		u	l	Ü		Ü		Ü
	0.24				1				1		Į		}			
4-Chloro-3-methylphenol			U	U		U		U	İ	U	l	U	1	U		U
2 6-Dinitrotoluene	1		U	U		U		U		U	l	U	l	U		U
2-Nitrophenol	0.33		υļ	U		U		U		υ	1	U	i	U		U
3-Nitroaniline	1	ł	U	U		U		U	Į.	U	1	U		υ		U
Dimethyl phthalate	2		υ	U	1	U		U	l	U	ļ	U	0.44			U
2 4-Dinitrophenol	2	ĺ	U	U	1	U		Ü	l	U		U	l	U		U
Acenaphthylene	41		U	Ū	0.036	J	0.047	J	0.53	J	0.022	Ĵ	0.09	j	0.26	Ĵ
2 4-Dinitrotoluene	1 "		ŭ	ŭ	0.02	ŭ	0.0	Ŭ	0.00	Ŭ	0.022	ŭ	0.00	ŭ	0.20	Ŭ
Acenaphthene	50					١	0.48					UH	0.04			U
	50		J 3.6	J	0.35	. 1		J	0.24	J				J		U
Dibenzofuran	ļ		J 4.3	J	0.033	J	0.15	J	0.42	J		U	0.05	J		
4-Nitrophenol			U	U	l	U		U	i	U		U	l	U.		U
Fluorene	50		J 6.8	J	0.064	J	0.31	J	0.22	J		U	0.06	J		U
4-Nitroaniline			υļ	U		υį		U	l	U		U	ļ	υj		U
4-Bromophenyl phenyl ether	J	İ	υl	U	İ	υ		U	l	U		U		υl		U
Hexachlorobenzene	1	ļ	υİ	U	į	υ		U		U		U		υl		U
Diethyl phthalate	1		υl	U		Ü		U		U		U		U		U
4-Chlorophenyl phenyl ether	1		Ū	Ū	l	υl		Ũ		Ũ		Ū	ĺ	ŭ		Ū
Pentachiorophenol	1		ŭ	ŭ	1	ŭΙ		ŭ		ŭ		ŭ		ŭ		Ü
n-Nitrosodiphenylamine	1		j	Ü	l	ŭ	0.29	J		Ü		Ü		υl		Ü
	1		บู่		1	U	0.29	U				U		u		U
4 6-Dinitro-2-methylphenol			-	U	1 .	ا ت		U		υ	0.400	- 1	0.04	١	0	_
Phenanthrene	50	14	40		2		2.8		4.10		0.130	J	0.61	!	0.72	J
Anthracene	50		J 13	J	0.14	J	1.1	j	0.88		0.034	J	0.17	J	0.11	J
Carbazole			J 3.1	J	0.38	ļ	0.63	J	0.45	J		U	0.09	J	0.20	J
Di-n-butyl phthalate]		υ	U		υİ	0.12	J	0.10	J	0.025	J	0.09	J	0.10	J
Fluoranthene	50	38	53	_	2.2		9.8		5.60		0.270	J	0.88	i	0.98	Ĵ
Pyrene	50	17	45		0.8		3.1		3.00		0.290	Ĵ	1		0.32	J
Butyl benzyl phthalate	"		ט ־~	U	0.0	U	0.077	ار	0.09	j	0.047	j	0.13	J	0.02	ŭ
Benzo(a)anthracene	0.224		J 24	U	0.4	٦	2.1	٦	2.10	,	0.130	j	0.13	٦	0.77	j
						l i				- 1				1		
Chrysene	0.4	7.1	. 14		1.2	. , . I	2.2	۱.,۱	3.30	ا ا	0.220	J	0.62	١., ١	0.74	J
3 3-Dichlorobenzidine			u	U		U	_	U		U		U		U		U
3is(2-ethylhexyl)phthalate	50	11	1	U	0.1	J	5.2	1	0.43	J	0.240	J	0.32	J	6.3	
Di-n-octyl phthalate			u	U		υĺ		υļ		υļ	0.019	J		U		U
Benzo(b)fluoranthene	1.1	6	J 16		1		1.7	- 1	2.90	I	0.170	J	0.57		0.23	J
Benzo(k)fluoranthene	1.1	6	J 12		0.4	- 1	1.6	- 1	2.20	- 1	0.200	J	0.47	- 1	0.21	J
Benzo(a)pyrene	0.0609		J 21		1	- 1	1.9	l	2.80	1	0.140	j	0.44	1	0.25	J
ndeno(1 2 3-cd)pyrene	0.0000		J 7.2	j	0.2	J	1.1	J	0.33	J	0.090	J	0.23	J	0.47	J
Dibenzo(a h)anthracene	0.014		J 4.3		0.4	١	0.69	j	0.33	,	0.090	j	0.23	j	0.47	,
Dibenzo(a njanthracene Benzo(ghi)perylene				J								- 1				J
neuzui Daunervieae	! 50 l	з,	J 8.1	- 1	0.2	J	1.10	J	0.24	J	0.077	J	0.19	J	0.30	J
Total	500	157	282		11.0	-	36		33	$\overline{}$	2.15		7		12	_

Units in milligrams per kilopgram (mg/kg).
U - indicates analyte was not detected at or above the reporting limit.
J- Result is an estimated value, below the reporting limit, or tentatively identified compound.
* Standards are from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046.
Bold face indicates the exceedance of a NYSDEC standard or guidance value.

Table 3-2. Surface Soil Analytical Results - Polychlorinated Biphenyls (PCBs). Salvation Army Parcel Investigation. October 2003.

Aroclor	- AGM	.ss-1	SS-2	SS-3	SS-4		SS-5	9-88	28-7		B-6	
	STD.*	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft		0-0.5 #	0.0 5	0-0		400	
Aroclor 1016						 		-	500	-	1 7 5	
Aroclor 1991) :) :)		<u> </u>	>	0		 >		-
Alociol 122 I	_		5	_		_ _	-	=		_		=
Aroclor 1232				=		=	, =) =		-)
Aroclor 1940) :	2	_	_	 >	 >	0		_		-
7100001			<u> </u>	_		_ >	>	=		=		=
Aroclor 1248				_	_	=	=) =) :
Arnolor 1054		_))		-	כ	0		_		-
A100101 1234		→	0.053	0.011	0.021		0.47	0.039	0.024	_	010	_
Aroclor 1260		=	9600	0200		-		;			2	,
			0.000			Σ	69.0	>	0.038	o 	.015	_
l otal Aroclors	S	QN	0.089	0.089	0.036		1.16	0.039	0.062		0.034	
	***************************************				-))))				

Units in milligrams per kilogram (mg/kg). U - indicates analyte was not detected at or above the reporting limit.

J- Result is an estimated value, below the reporting limit, or tentatively identified compound.
 Standards are from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046.
 Bold face indicates the exceedance of a NYSDEC standard or guidance value.

Table 3-3. Surface Soil Analytical Results - Target Analyte List Metals. Salvation Army Parcel Investigation. October 2003.

% Solidis Cleanup Objective*** 60.65 ft 0.0.57 ft 0.0.55 ft 0.0.57 ft 0.0.57 ft 0.0.57 ft	Cleanup Objective, O-0-5 ft	e Le	Cleanup Objective.*	****								,			·	70	c
Part	Part Part	% Solids % Moisture Mercury Aluminum		11 6.0-0	<u></u>	-0.5 ft	0-0.5 ft		0-0.5 ft		0-0.5 ft		# 20		#	<u>ئ</u> 	, #
With O.1 4.4 11.9 5.8 8.1 20.7 9.4 17.1 With S.B 0.1 0.28 B. 12.9 B. 51.00 U. 2,770 U. 1.1 U. 1.2 U. 1.1 U. 1.2	Wine 0.11 4.4 1.13 5.8 8.1 20.7 9.4 17.1 Mine SB 4670 0.139 B 2.450 0 5,100 0 2.770 9.4 17.1 My 7.5 or SB 4.4 B 4.4 B 2.450 0 5,100 0 2.770 9.3 0 0.24 My 7.5 or SB 70.1 1.16 B 2.2 B 4.8 B 2.75 B 1.9 1.9 1.1 0 0.24 0 1.1 0 <td>% Moisture Mercury Aluminum</td> <td></td> <td>95.6</td> <td>88</td> <td>-:</td> <td>94.2</td> <td>Γ</td> <td>91.9</td> <td>Ľ</td> <td>9.3</td> <td>206</td> <td>:</td> <td>82.0</td> <td>5</td> <td>a a</td> <td>=</td>	% Moisture Mercury Aluminum		95.6	88	-:	94.2	Γ	91.9	Ľ	9.3	206	:	82.0	5	a a	=
V 0.1 0.2 0.1 0.2 0.2 0.1 0.2	V O.1 0.1 0.2 B 0.2 B 0.2 D 0.24 D 0.24 B 4670 U 0.2450 D 0.10 0.2770 U 1.11	Mercury Aluminum		4.4	-	6:	5.8		8.1		20.7	9		17.1		3 5	
1	1	Aluminum	0.1		U 0.2			⊃					n	0.24		1	=
1	1.00 1.00		SB	4670	3,8	70	2,450		5,100	ر 			0	8 93		6070	,
March Marc	March Marc	Antimony			n			>			n	-	_	-			Ξ
March Marc	March Marc	Arsenic	7.5 or SB	4.4	B 4		2.2	Θ			6.1 B			2		7	מס
mm 0.16 or SB 166,000 147,000 162,000 111,000 205,000 134,000 52,900 100,150 121 B 150 150 170 171 121 B 150 B 25,900 171 121 20,900 B 150 B 25,900 171 20,900 171 20,900 171 20,900 171 20,900 171 20,900 171,900 171,900 171,100 20,500 171,100 171,100 171,110 171 171 20,900 171,100 </td <td>mm 0.16 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 12 or SB <th< td=""><td>Barium</td><td>300 or SB</td><td>70.1</td><td>11</td><td></td><td>13.4</td><td>ı</td><td></td><td></td><td>530</td><td></td><td>_</td><td>12.0</td><td></td><td></td><td>נ</td></th<></td>	mm 0.16 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 10 or SB 12 or SB <th< td=""><td>Barium</td><td>300 or SB</td><td>70.1</td><td>11</td><td></td><td>13.4</td><td>ı</td><td></td><td></td><td>530</td><td></td><td>_</td><td>12.0</td><td></td><td></td><td>נ</td></th<>	Barium	300 or SB	70.1	11		13.4	ı			530		_	12.0			נ
Image: Brown Name of the control of the con	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Beryllium	0.16 or SB		: 		<u>.</u>	=	3	- - =	3	<u></u>	=	2 0		02.0	Ξ
n SB 166,000 147,000 162,000 111,000 205,000 134,000 52,90 nm 10 or SB 7.8 8.2 5.5 9.2 41.7 12.1 20.4 25 or SB 17.2 26.6 6.9 11,600 47,300 7,130 8.8 25 or SB 17.2 26.6 6.9 11,600 47,300 7,130 8.8 SB 27,900 or SB 13.8 142 28.2 5.6 15.6 17,1 51.7 51.7 18,900	n SB 166,000 147,000 162,000 111,000 205,000 134,000 52,000 um 30 or SB 7,8 8,2 5,5 9,2 41,7 12,1 20,4 30 or SB 17,2 26,6 6,9 29,2 170 17,1 20,4 25 or SB 17,2 26,6 6,9 29,2 170 17,1 20,4 SB 17,2 26,6 6,9 29,2 170 17,1 50,4 SB 17,2 26,6 6,9 29,2 170 17,1 50,4 SB 27,900 9,250 31,000 58,300 16,900 16,900 SB 1,80 1,80 1,80 1,610 0 1,610 0 1,600 1,890 1,610 0 0 0 1,990 1,790 1,610 0 0 0 0 1,810 0 0 0 0 0 0 0 0 0<	Cadmium	1.0 or SB					, =	-	 > =	=		> =			0	םכ
um 10 or SB 7.8 8.2 5.5 9.2 41.7 17.1 20.4 2 or SB 5.2 3.9 1.6 5.6 6.7 B 2.5 8.8 2 or SB 1,22 2.6.6 4,160 11,800 47,300 7,130 18,900 SB 1,38 1,42 2.8.2 5.6 11,800 17,300 18,900 10,600 SB 1,38 1,42 2.8.2 5.6 16,80 31,2 31,2 39,1 sium SB 1,38 1,42 2.8.5 34,1 6.6 58,300 87,800 10,600 SB 1,48 11,30 1,790 1,610 0	um 10 or SB 7.8 8.2 5.5 9.2 41.7 7.10 2.5 8.8 25 or SB 17.2 2.6.6 6.9 5.6 6.7 B 2.5 8.8 25 or SB 17.2 2.6.6 6.9 2.8.2 17.0 17.1 517 51.7 sium SB 17.8 17.2 2.6.6 6.9 5.68 31.2 39.1 39.2	Calcium	SB	168,000	147.	000	162.000		111,000		5,000	1340) E			45.03	. د
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silum SB 27,900 19,900 25,500 31,000 59,300 87,800 10,600 nnese SB 14.8 17.5 11.3 5.6 16.4 45.1 81 39.9 ilum 2 or SB 1,850 1,890 1,790 1,610 0 1,610 0 1,810 1,850 n SB 1,240 336 1,730 0	signmese SB 27,900 19,900 25,500 31,000 59,300 87,800 10,600 nese SB 14.8 11.3 5.6 16.4 45.1 81 461 461 sium 2 or SB 1,850 1,890 1,790 1,790 1,610 773 B 2400 1930 um 2 or SB 1,240 336 713 E 780 E 304 B 779 n SB 1,240 336 713 E 780 E 304 B 779 ium 160 or SB 15.5 B 4.6 10.1 U <td>Lead</td> <td>SB</td> <td>13.8</td> <td>4</td> <td>ζŅ</td> <td>28.2</td> <td></td> <td>54.6</td> <td></td> <td>568</td> <td>31,</td> <td>, ,</td> <td>36</td> <td>,</td> <td>788</td> <td></td>	Lead	SB	13.8	4	ζŅ	28.2		54.6		568	31,	, ,	36	,	788	
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time 13 or SB 14.8 11.3 5.6 16.4 45.1 8.1 8.1 39.9 um SB 1,850 1,890 1,790 1,610 773 B 2400 1930 n SB U	light 13 or SB 14.8 11.3 5.6 16.4 45.1 8.1 39.9 um SB 1,850 1,890 1,790 1,610 773 B 2400 1930 um SB 1,850 U <td>Manganese</td> <td>SB</td> <td>354</td> <td>27</td> <td>ž,</td> <td>93.3</td> <td></td> <td>341</td> <td></td> <td>162</td> <td>183</td> <td>:</td> <td>461</td> <td>)</td> <td>454</td> <td></td>	Manganese	SB	354	27	ž,	93.3		341		162	183	:	461)	454	
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um 2 or SB U<	um 2 or SB U<	Potassium	SB	1,850	1,8	06	1,790		1.610		773 B	240		1930	_	1040	
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tdium 150 or SB 15.5 8 4.6 10.1 12.6 B 9.2 19.3 E 425 E are in milligrams parts kilograms (mg/kg). are in milligrams parts kilograms (mg/kg). dicates analyte was not detected at or above the reporting limit. should be set from NYSDEC Technical and Administrative Guidance Memorandium (TAGM) 4048	ddium 150 or SB 15.5 8 4.6 10.1 12.6 B 9.2 19.3 are in milligrams parts kilograms (mg/kg). 4.6 11.3 27.6 65.6 877 63.1 E 425 rich milligrams parts kilograms (mg/kg). rich milligrams (mg/kg). rich milligrams (mg/kg). rich milligrams (mg/kg). rich milligrams (mg/kg). rich milligrams (mg/kg). rich milligrams (mg/kg). rich milligrams (mg/kg). rich milligrams (mg/kg). <	Thallium	8S					>				<u></u>	_	: : 		2	\supset
are in milligrams parts kilograms (mg/kg). dicates analyte was not detected at or above the reporting limit. esults is less than the CRDL, but greater than or equalt to the MDL. andards are from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4048	are in milligrams parts kilograms (mg/kg). dicates analyte was not detected at or above the reporting limit. disagraph was not detected at or above the reporting limit. disagraph was not detected at or above the reporting limit. disagraph was not detected at or above the reporting limit. disagraph was not detected at or above the reporting limit. disagraph was not detected at or above the major with the MDL. and are from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046.	Vanadium	150 or SB	15.5	œ 		4.6		10.1		12.6 B	9.5		19.3		=	۲
		Zinc	- 1	31.2	-	e	27.6		65.6		778	83		425		120	
	Section of the sectio	Units are in milligrams parts kilograms (r U - indicates analyte was not detected at B - Results is less than the CRDL, but gr Standards are from NYSDEC Technics	mg/kg). It or above the reporting limi reater than or equalt to the like and Administrative Guida	t. VDL.	TAGM)	4046			A PARTIE DE LA PAR				H		1		

Table 3-4. Sub-surface Soil Analytical Results - Target Compound List Volatile Organic Compounds. Salvation Army Parcel Investigation. October 2003.

	TAGM	B-4		B-5		В	-6
Compound	STD.*	4-6 Fe	et	8-10 Fe	et	6-8	-
Chloromethane	-		U		U		U
Vinyl chloride	2		υl		U		U
Bromomethane			υl		υ		U
Chloroethane	1.9		υl		υl		U
1 1-Dichloroethene	0.4		υl		υl		U
Carbon disulfide	2.7		υl		U		U
Acetone	0.2		U		U		U
Methylene chloride	0.1	0.002	JB	0.004	JB	0.003	JB
trans-1 2-Dichloroethene	0.3		U		Ų		U
1 1-Dichloroethane	0.2		U		U		U
Vinyl acetate			U		U		U
cis-1 2-Dichloroethene			U		U		U
2-Butanone (MEK)	0.3		U		U		U
Chloroform	0.3		U		υ		U
1 1 1-Trichloroethane	0.8		U		U		U
Carbon tetrachloride	0.6		U		U		U
Benzene	0.06	0.0007	J	0.005	J	0.004	J
1 2-Dichloroethane	0.1		υl		U		U
Trichloroethene	0.7		υl		U		U
1 2-Dichloropropane			υl		Ψļ		Ų
Bromodichloromethane			υl		υl		U
cis-1 3-Dichloropropene			υl		υl		U
4-Methyl-2-pentanone (MIBK)	1		υl		υļ		U
Toluene	1.5	0.001	J	0.005	J	0.002	j
trans-1 3-Dichloropropene			U		U		U
1 1 2-Trichloroethane			υl		U		U
Tetrachloroethene	1.4		U		U		U
2-Hexanone			U		U		U
Dibromochloromethane			U		U		U
Chlorobenzene	1.7		U		υ		U
Ethylbenzene	5.5		U	0.002	J	0.0009	J
Styrene			U		U		U
Bromoform			U		U		U
1 1 2 2-Tetrachloroethane	0.6		υ		U		U
Xylenes (total)	1.2		U	0.004	J	0.001	J

Units in milligrams per kilopgram (mg/kg).

U - indicates analyte was not detected at or above the reporting limit.

J- Result is an estimated value, below the reporting limit, or tentatively identified compound.

* Standards are from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046.

Bold face indicates the exceedance of a NYSDEC standard or guidance value.

B- indicates that the compound is detected in the method blank.

Table 3-5. Sub-Surface Soil Analytical Results - Target Compound List Semi-Volatile Organic Compounds. Salvation Army Parcel Investigation. October 2003.

				· · · · · · · · · · · · · · · · · · ·		r	
COMPOUND	TAGM STD.	B-4 4-6 Fe	ot.	B-5 8-10 Fe	oot	B-6 6-8 Fe	
Phenol	310.	7-016	U	0-1015	U	00	U
Bis(2-chloroethyl)ether		1	U		U		U
1 3-Dichlorobenzene			U		U		U
1 4-Dichlorobenzene			U		U		U
1 2-Dichlorobenzene	1		U		U		U
Benzyl alcohol			U		U		U
2-Methylphenol	0.1		U		U		U
2 2-oxybis (1-chloropropane)			U		U		U
n-Nitroso-di-n-propylamine Hexachloroethane			U		Ü		ŭ
4-Methylphenol	0.9		ŭ		Ŭ		Ū
2-Chlorophenol	0.8		Ū		Ü		U
Nitrobenzene	0.2		U		U		U
Bis(2-chloroethoxy)methane	1		U		U		U
1 2 4-Trichlorobenzene	3.4		U		U		U
Benzoic acid	2.7		U		U		U
Isophorone	4.4		U		U		U
2 4-Dimethylphenol			U		U		U
Hexachlorobutadiene Naphthalene	13		Ü		Ü		Ü
2 4-Dichlorophenol	0.4		Ü		Ŭ		ŭ
4-Chloroaniline	0.22		Ũ		Ū		U
2 4 6-Trichlorophenol			U		U		U
2 4 5-Trichlorophenol	0.1		U		U		U
Hexachlorocyclopentadiene			U		U		U
2-Methylnaphthalene	36.4	0.088	J		U		U
2-Nitroaniline	0.43		U		U		U
2-Chloronaphthalene	0.24		U		Ü		Ü
4-Chloro-3-methylphenol 2 6-Dinitrotoluene	1		Ü		ŭ		Ŭ
2-Nitrophenol	0.33		Ü		Ū		Ü
3-Nitroaniline	0.5		U		U		U
Dimethyl phthalate	2		U		U		U
2 4-Dinitrophenol	0.2		U		U		U
Acenaphthylene	41		U		U		U
2 4-Dinitrotoluene		0.07	U		U		U
Acenaphthene	50	0.37 0.2	J J		U		Ü
Dibenzofuran 4-Nitrophenol		0.2	ŭ		Ü		Ü
Fluorene	50	0.37	J		ŭ		Ū
4-Nitroaniline		0.0.	ŭ		Ū		Ü
4-Bromophenyl phenyl ether			υ		U		U
Hexachlorobenzene			U		U		U
Diethyl phthalate			U		U		U
4-Chlorophenyl phenyl ether			U		U		U
Pentachlorophenol			U		U		U
n-Nitrosodiphenylamine			Ü		U		Ü
4 6-Dinitro-2-methylphenol Phenanthrene	50	2.6	٠		ŭ		Ū
Anthracene	50	0.76	J		U		U
Carbazole		0.38	J		U		U
Di-n-butyl phthalate			U		U		U
Fluoranthene	50	3.4			U		U
Pyrene	50	2.4			U		U
Butyl benzyl phthalate		4.0	υ		U		U
Benzo(a)anthracene	0.224	1.3 1.2			U		Ü
Chrysene	0.4	1.2	U		Ü		Ü
3 3-Dichlorobenzidine Bis(2-ethylhexyl)phthalate	50	0.15	J	0.27	Ĵ	0.39	Ĵ
Di-n-octyl phthalate		50	Ü	Ţ. .	ŭ		Ŭ
Benzo(b)fluoranthene	1.10	1.2	-		U		U
Benzo(k)fluoranthene	1.10	0.96			U		U
Benzo(a)pyrene	0.06	1.1			U		U
Indeno(1 2 3-cd)pyrene		0.65	J		U		U
Dibenzo(a h)anthracene	0.01	0.33 0.65	j		U		U
Benzo(ghi)perylene	50			0.27		0.39	
Total	500	18		0.27		0.05	

Units in milligrams per kilopgram (mg/kg).

U - indicates analyte was not detected at or above the reporting limit.

J- Result is an estimated value, below the reporting limit, or tentatively identified compound.

* Standards are from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046.

Bold face indicates the exceedance of a NYSDEC standard or guidance value.

Table 3-6. Sub-Surface Soil Analytical Results - Polychlorinated Biphenyls (PCBs). Salvation Army Parcel Investigation. October 2003.

20,000	TAGM	B-4	B-5	B-6
NO SOLID	STD.	4-6 Feet	8-10 Feet	6-8 Feet
Aroclor 1016			n	n
Aroclor 1221		¬	· >	n
Aroclor 1232		<u> </u>		· ⊃
Aroclor 1242		→	· >))
Aroclor 1248	·)]
Aroclor 1254		· >))))
Aroclor 1260		<u>Э</u>	כ)
Total Aroclors	clors 10	S	2	QN.

Units in milligrams per kilogram (mg/kg).
U - indicates analyte was not detected at or above the reporting limit.
J- Result is an estimated value, below the reporting limit, or tentatively identified compound.
* Standards are from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046.
Bold face indicates the exceedance of a NYSDEC standard or guidance value.

Table 3-7. Sub-Surface Soil Analytical Results - Target Analyte List Metals. Salvation Army Parcel Investigation. October 2003.

	TAGM	B.4		B-5		9-B	
Allalyle	STD.*	4-6 Feet		8-10 Feet	*	6-8 Feet	i i
% Solids		84.2		81.8		76.4	
% Moisture		15.8		18.2		23.6	
Mercury	0.1		⊃		⊃		⊃
Aluminum	SB	11,800		7680		8450	
Antimony		1.2			⊃		>
Arsenic	7.5 or SB	3.6	œ	4	Ω	3.3	80
Barium	300 or SB	46.9		134		117	
Beryllium	0.16 or SB	0.61	•		>		>
Cadmium	1.0 or SB		>		>		>
Calcium	SB	12,800		54,300		54,200	
Chromium	10 or SB	18.8		11.7		12.7	
Cobalt	30 or SB	4		7.9		8.2	
Copper	25 or SB	26.5		18.3		19.8	
Iron	2,000 or SB	22,900		16,900		16,400	
Lead	SB	58.7		7.5	Ω	8.8	
Magnesium	SB	4,640		21,000		19,700	
Manganese	SB	517		328		394	
Nickel	13 or SB	28.2		19		19.1	
Potassium	SB	1,860		2,070		1,820	
Selenium	2 or SB		⊃		>		⊃
Silver	SB		\supset		>		⊃
Sodium	SB	615		871		934	
Thallium	SB		⊃)		⊃
Vanadium	150 or SB	21.5		4		15.2	
Zinc	20 or SB	56.2		37.3		38.8	

Units are in milligrams parts kilograms (mg/kg).

U - indicates analyte was not detected at or above the reporting limit.

B - Results is less than the CRDL, but greater than or equalt to the MDL.

** Standards are from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046. Bold face indicates the exceedance of a NYSDEC standard or guidance value.

Table 3-9. Groundwater Analytical Results - Target Compound List Volatile Organic Compounds. Salvation Army Parcel Investigation. October 2003.

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Table 3-10. Groundwater Analytical Results - Target Compound List Semi-Volatile Organic Compounds. Salvation Army Parcel Investigation. October 2003.

COMPOUND	TAGM STD.	MW-4	MW-5	MW-6	MW-14	MW-15	MW-16	MW-17
Phenol	1	U	U	U	U	Ü	U	U
Bis(2-chloroethyl)ether	1	U	U	U	U	U	U	U
1 3-Dichlorobenzene	3	U	U	U	Ų	U	Ü	U
1 4-Dichlorobenzene	3	U	Ü	U	U	Ü	U	U
1 2-Dichlorobenzene	3	U	Ü	U	Ŭ	U U	U	U
Benzyl alcohol		U	U	U	U U	Ü	U	U
2-Methylphenol	1	U U	U U	U	Ü	Ü	Ü	Ü
2 2-oxybis (1-chloropropane) n-Nitroso-di-n-propylamine	5	l ü	U	Ü	Ü	l ü	ນ	Ŭ
Hexachloroethane	5	Ĭ	Ü	Ü	ľ	Ū	Ŭ	Ü
4-Methylphenol		ľ	Ü	υ	Ŭ	Ü	Ū	Ū
2-Chlorophenol	1	Ū	Ü	Ū	Ū	Ū	U	U
Nitrobenzene	0.4	ľ	Ū	U	U	U	U	U
Bis(2-chloroethoxy)methane	5	υ	U	U	U	U	U	U
1 2 4-Trichlorobenzene	5	U U	U	U	U	U	U	U
Benzoic acid		U	U	U	U	U	U	U
Isophorone	50G	U	U	U	U	U	U	U
2 4-Dimethylphenol	50	U	U	Ü	U	U	U	U
Hexachlorobutadiene	0.5	U	U	U	U	U	U	U
Naphthalene	10G	U	U	Ü	U	U	U	U
2 4-Dichlorophenol	5	U	U	Ü	Ü	U	Ü	U
4-Chloroaniline	5	U	U	U	U	U	U	U
2 4 6-Trichlorophenol	1	U	U	U	Ü	U	U	U
2 4 5-Trichlorophenol	l -	U	U	U	U	Ü	Ü	Ü
Hexachlorocyclopentadiene	5	U	U U	U	U	Ü	· U	Ü
2-Methylnaphthalene	-	U	U	U	Ü	Ü	Ü	Ü
2-Nitroaniline 2-Chloronaphthalene	5 10G	U	U	Ü	Ü	Ü	Ü	Ü
4-Chloro-3-methylphenol	100	Ü	Ü	Ü	Ü	Ŭ	ŭ	Ü
2 6-Dinitrotoluene		Ü	Ü	Ü	Ü	υ	ū	Ŭ
2-Nitrophenol		Ŭ	ū	ŭ	Ū	Ū	Ū	υ
3-Nitroaniline	50G	υ	ŭ	Ū	Ū	U	U	U
Dimethyl phthalate	"	Ū	Ū	υ	U	U	U	U
2 4-Dinitrophenol	10	Ü	υ	υ	U	U	U	U
Acenaphthylene		U	U	υ	U	U	U	U
2 4-Dinitrotoluene	5	υj	U	U	U	U	U	U
Acenaphthene	20G	υ	U	U	U	U	U	U
Dibenzofuran		υ	U	U	U	U	U	U
4-Nitrophenol		U	U	U	U	U	U	U
Fluorene	50G	U	U	U	U	U	Ų	0.4 J
4-Nitroaniline	5	U	U	U	U	U	U	U
4-Bromophenyl phenyl ether		U	U	U	U	U	U	U
Hexachlorobenzene	0.04	l	U	U	U	Ü	Ü	0.3 J
Diethyl phthalate	500	U I	U	Ü	U	Ü	Ü	0.5 J
4-Chlorophenyl phenyl ether	50G	U	υ	υ	ŭ	Ü	Ü	Ü
Pentachlorophenol n-Nitrosodiphenylamine	1 50G	Ŭ.	υl	ŭ	ŭ	Ŭ	ŭl	ŭ
4 6-Dinitro-2-methylphenol	300	Ü	υl	ŭ	ŭ	ŭ	ŭ	Ū
Phenanthrene	50G	ŭ	ŭ	ŭ	υl	υl	υl	0.9 J
Anthracene	50G	ŭ	ŭl	ŭĺ	ŭ	Ū	ŪΙ	Ú
Carbazole	550	ŭ	ŭΙ	υ	ŭΙ	υ	υ	U
Di-n-butyl phthalate	50G	Ü	ŭΙ	ū	Ū	0.5 J	U	0.7 J
Fluoranthene	50G	ŭ	ŭ	ŪΙ	Ū	υ	U	0.6 J
Pyrene	50G	Ū	Ū	υ	υ	U	υ	2 J
Butyl benzyl phthalate	50G	υl	U	υļ	υ	υ	U	U
Benzo(a)anthracene	5	U	υ	υl	υ	υ	υ	1 J
Chrysene	0.002G	U	U	U	U	υ	U	2 J
3 3-Dichlorobenzidine	0.002G	U	U	U	υ	U	U	U
Bis(2-ethylhexyl)phthalate	5	U	U	U	U	0.5 J	U	2 J
Di-n-octyl phthalate	0.002G	U	U	U	U	U	U	U
Benzo(b)fluoranthene	0.002G	U	U	U	U	Ų į	Ü	U
Benzo(k)fluoranthene	0.002G	U	U	U	Ü	U	U	U
Benzo(a)pyrene	ND	U	U	U	U	U	U	U
Indeno(1 2 3-cd)pyrene	0.002G	U	U	U	υ	U	U	U U
Dibenzo(a h)anthracene		U	N	U	U	U	U U	U
Benzo(ghi)perylene	- 500	U U	U	U	U U	U	ND U	9.9
Total	500	ND	ND	ND	ND	1	IND	3.3

Water Quality Standards & Guidance Values.

Bold face indicates the exceedance of a NYSDEC standard or guidance value.

Units in micrograms per liter (ug/L)
U - indicates analyte was not detected at or above the reporting limit.
J- Result is an estimated value, below the reporting limit, or tentatively identified compound.
* Standards are from NYSDEC Technical and Operational Guidance Series (TOGS) Ambient

Table 3-11. Groundwater Analytical Results - Polychlorinated Biphenyls (PCBs). Salvation Army Parcel Investigation. October 2003.

Aroclor	TOGS STD.*	MW-4	MW-5	MW-6	MW-14	MW-15	MW-16	MW-17
Aroclor 1016		n	n	Ω	n	<u>N</u>	Ω	n
Aroclor 1221		⊃	ח	ר)	n) ⊃
Aroclor 1232		<u></u>	n	Э	<u> </u>	ח	ם ס	· ⊃
Aroclor 1242		כ	כ	<u> </u>)	ח	ח	· =
Aroclor 1248	, -	Þ	n	n)	n	ם י))
Aroclor 1254		D	n	<u></u>	ה ה	n	ח	=
Aroclor 1260		D	n	ם -)	ם ס))) ⊃
Total Aroclors	0.09	ND	ND	QN	QN	QN	QN	QN

Units in micrograms per liter (ug/L)
U - indicates analyte was not detected at or above the reporting limit.
J- Result is an estimated value, below the reporting limit, or tentatively identified compound.
* Standards are from NYSDEC Technical and Operational Guidance Series (TOGS) Ambient Water Quality Standards & Guidance Values.

Bold face indicates the exceedance of a NYSDEC standard or guidance value.

Table 3-12. Warehouse Wipe Samples - PCBs Salvation Army Parcel Investigation. October 2003.

Analyte	SA-WS-1	SA-WS-2	SA-WS-3
Aroclor 1016	U	U	U
Aroclor 1221	U	U	U
Aroclor 1232	U	U	U
Aroclor 1242	U	U	U
Aroclor 1248	U	U	U
Aroclor 1254	1.9	1.7	0.81
Aroclor 1260	U	U	U
Total	1.9	1.7	0.81

units are in micrgrams per wipe (ug/100 cm²)
U - indicates analyte was not detected at or above the reporting limit.
J- Result is an estimated value, below the reporting limit, or tentatively identified compo

Table 3-13. Warehouse Drain Sample - Target Compound List Volatile Organic Compounds. Salvation Army Parcel Investigation. October 2003.

COMPOUND	SA-DS-1
Chloromethane	U
Vinyl chloride	U
Bromomethane	U
Chloroethane	l u
1 1-Dichloroethene	U
Carbon disulfide	U
Acetone	U
Methylene chloride	0.014 B
trans-1 2-Dichloroethene	U
1 1-Dichloroethane	U
Vinyl acetate	U
cis-1 2-Dichloroethene	U
2-Butanone (MEK)	U
Chloroform	U
1 1 1-Trichloroethane	U
Carbon tetrachloride	U
Benzene	U
1 2-Dichloroethane	U
Trichloroethene	U
1 2-Dichloropropane	U
Bromodichloromethane	U
cis-1 3-Dichloropropene	U
4-Methyl-2-pentanone (MIBK)	U
Toluene	U
trans-1 3-Dichloropropene	U
1 1 2-Trichloroethane	U
Tetrachloroethene	U
2-Hexanone	U
Dibromochloromethane	U
Chlorobenzene	U
Ethylbenzene	U
Styrene	U
Bromoform	U
1 1 2 2-Tetrachloroethane	U
Xylenes (total)	U

Units in milligrams per liter (ug/Kg)
U - indicates analyte was not detected at or above the reporting limit.
J- Result is an estimated value, below the reporting limit, or tentatively identified compound.
B - Indicated that the sample was detected in the method blank.

COMPOUND	SA-DS-1
Phenol	Ū
Bis(2-chloroethyl)ether	U
1 3-Dichlorobenzene	U
1 4-Dichlorobenzene	U
1 2-Dichlorobenzene	U
Benzyl alcohol	U
2-Methylphenol	U
2 2-oxybis (1-chloropropane)	υ
n-Nitroso-di-n-propylamine	l u
Hexachloroethane	U
4-Methylphenol	ĺ U
2-Chlorophenol	U
Nitrobenzene	lυ
Bis(2-chloroethoxy)methane	U
1 2 4-Trichlorobenzene	U
Benzoic acid	lυ
Isophorone	U
2 4-Dimethylphenol	Ū
Hexachlorobutadiene	Ū
Naphthalene	Ŭ
2 4-Dichlorophenol	Ŭ
4-Chloroaniline	Ü
2 4 6-Trichlorophenol	Ŭ
2 4 5-Trichlorophenol	Ü
Hexachlorocyclopentadiene	Ü
	ا
2-Methylnaphthalene	Ü
2-Nitroaniline	U
2-Chloronaphthalene	i .
4-Chloro-3-methylphenol	U
2 6-Dinitrotoluene	U
2-Nitrophenol	U
3-Nitroaniline	U
Dimethyl phthalate	0.92 J
2 4-Dinitrophenol	U
Acenaphthylene	0.32 J
2 4-Dinitrotoluene	U
Acenaphthene	U
Dibenzofuran	U
4-Nitrophenol	U
Fluorene	U
4-Nitroaniline	U
4-Bromophenyl phenyl ether	U
Hexachlorobenzene	U
Diethyl phthalate	U
4-Chlorophenyl phenyl ether	U
Pentachlorophenol	U
n-Nitrosodiphenylamine	U
4 6-Dinitro-2-methylphenol	U
Phenanthrene	1.3 J
Anthracene	0.65 J
Carbazole	0.43 J
Di-n-butyl phthalate	2.7 J
Fluoranthene	5.9
Pyrene	5.3
Butyl benzyl phthalate	2.7 J
Benzo(a)anthracene	4.2 J
Chrysene	5
3 3-Dichlorobenzidine	U
Bis(2-ethylhexyl)phthalate	19 B
Di-n-octyl phthalate	0.76 J
Benzo(b)fluoranthene	4.6
Benzo(k)fluoranthene	3.8 J
Benzo(a)pyrene	3.5 J
Indeno(1 2 3-cd)pyrene	3.2 J
Dibenzo(a h)anthracene	1.4 J
Benzo(ghi)perylene	3.7 J
Total	69
Total	- 00

Units in milligrams per liter (mg/Kg)
U - indicates analyte was not detected at or above the reporting limit.
J- Result is an estimated value, below the reporting limit, or tentatively identified compound.
B - Indicated that the sample was detected in the method blank.

Table 3-15. Warehouse Drain Sample - PCBs. Salvation Army Parcel Investigation

Analyte		SA-DS-1
Aroclor 1016		U
Aroclor 1221		U
Aroclor 1232		U
Aroclor 1242		U
Aroclor 1248		U
Aroclor 1254		1.6
Aroclor 1260		0.45
	Total	2.05

Units in milligrams per liter (mg/Kg)
U - indicates analyte was not detected at or above the reporting limit.
J- Result is an estimated value, below the reporting limit, or tentatively identified compound.

Table 3-16. Warehouse Drain Sample - Target Analyte. List Metals. Salvation Army Parcel Investigation. October 2003.

Analyte	SA-DS-1
% Solids	74.2
% Moisture	25.8
Mercury	11.4 B
Aluminum	2,510
Antimony	3.4 B
Arsenic	26.3
Barium	331
Beryllium	2.4 U
Cadmium	20.9
Calcium	39,700
Chromium	65.7
Cobalt	17.2
Copper	630
Iron	118,000
Lead	833
Magnesium	3,660
Manganese	692
Nickel	86.6
Potassium	1,060
Selenium	19.3 U
Silver	4.2
Sodium	902
Thallium	26.5 U
Vanadium	16.8
Zinc	1,180

Units are in milligrams per kilogram (mg/Kg).
U - indicates analyte was not detected at or above the reporting limit.
B - Results is less than the CRDL, but greater than or equalt to the MDL.

Table 4-1. Surface Soil Screening - Target Compound List Semi-Volatile Organic Compounds. Salvation Army Parcel Investigation. October 2003

COMPOUND	Number of	Maximum	Minumum		US EPA Health Base		Retained
	Detections	Value	Value	Value	Carcinogenic	Systemic Toxicant	Y/N
Phenol	0 of 8	1			NA	50,000	N
Bis(2-chloroethyl)ether	0 of 8		1		NA NA	NA	N
1 3-Dichlorobenzene	0 of 8		I	ľ	NA NA	NA	N
1 4-Dichlorobenzene	0 of 8		1	1	NA NA	NA NA	N
1 2-Dichlorobenzene	0 of 8			1	NA NA	NA	N
Benzyl alcohol	0 of 8	1		1	NA NA	NA	N
2-Methylphenol	0 of 8		1		NA	NA NA	l N
2 2-oxybis (1-chloropropane)	0 of 8				NA NA	NA	N
n-Nitroso-di-n-propylamine	0 of 8				NA NA	NA NA	N
Hexachloroethane	0 of 8	I		1	NA NA	NA NA	N
4-Methylphenol	0 of 8				NA NA	4,000	N
		1	1	1			l N
2-Chlorophenol	0 of 8	1	1		NA	400	
Nitrobenzene	0 of 8				NA	40	N N
Bis(2-chloroethoxy)methane	0 of 8	1			NA	NA	N
1 2 4-Trichlorobenzene	0 of 8	1	1		NA	NA NA	N
Benzoic acid	0 of 8			1	NA NA	NA NA	N
Isophorone	1 of 8	19	nd	19	1,707	20,000	N
2 4-Dimethylphenol	0 of 8	1		1	NA NA	NA NA	N
Hexachlorobutadiene	0 of 8	1		1	NA NA	NA NA	N
Naphthalene	4 of 8	5	nd	2	NA NA	300	N
2 4-Dichlorophenol	0 of 8		1	1 -	NA NA	200	N
4-Chloroaniline	0 of 8	1	1	1	200	300	N N
2 4 6-Trichlorophenol	0 of 8		1		NA	NA	N
			1				N
2 4 5-Trichlorophenol	0 of 8				NA	8,000	
Hexachlorocyclopentadiene	0 of 8	1	1		NA	NA	N
2-Methylnaphthalene	3 of 8	2	nd	1	NA	NA	N
2-Nitroaniline	0 of 8	1		1	NA NA	NA	N
2-Chloronaphthalene	0 of 8				NA NA	NA NA	N N
4-Chloro-3-methylphenol	0 of 8]		NA NA	NA NA	N
2 6-Dinitrotoluene	0 of 8		l	l	1.03	NA NA	l N
2-Nitrophenol	0 of 8	1	1	1	NA NA	l na	l N
3-Nitroaniline	0 of 8			i	NA	NA NA	N
Dimethyl phthalate	1 of 8	0.44	nd	0.44	NA NA	80,000	N
2 4-Dinitrophenol	0 of 8	0.77	110	0.77	NA NA	200	l N
		١.				NA	N N
Acenaphthylene	6 of 8	1	0	0	NA		1 ''
2 4-Dinitrotoluene	1 of 8	0	nd	0	NA	NA .	N
Acenaphthene	6 of 8	4	nd	1	NA NA	5,000	N
Dibenzofuran	6 of 8	4	nd	1	NA NA	NA NA	N
1-Nitrophenol	0 of 8				NA NA	NA NA	N
Fluorene	6 of 8	7	nd	2	NA NA	3,000	N
I-Nitroaniline	0 of 8	İ		1	NA NA	NA	N
I-Bromophenyl phenyl ether	0 of 8				NA NA	NA	N
lexachlorobenzene	0 of 8			1	0.41	60	N
Diethyl phthalate	0 of 8			1	NA.	60.000	N
i-Chlorophenyl phenyl ether	0 of 8				NA NA	35,555	N
Pentachlorophenol	0 of 8	i i		l	NA NA	2,000	l ii
			nd	1	NA NA	NA	l N
-Nitrosodiphenylamine	2 of 8	1	na	1 '		NA NA	l N
6-Dinitro-2-methylphenol	0 of 8		_	_	NA		
Phenanthrene	8 of 8	40	0	8	NA	NA	N
Anthracene	8 of 8	13	0	3	NA NA	20,000	N
Carbazole	7 of 8	5	nd	1	NA NA	NA NA	N
Di-n-butyl phthalate	5 of 8	0	nd	0	NA NA	8,000	N
luoranthene	8 of 8	53	0	14	NA NA	3,000	N
Pyrene	8 of 8	45	0	9	NA NA	2,000	N
Butyl benzyl phthalate	4 of 8	ō	nd	١٥	NA	20,000	N
lenzo(a)anthracene	8 of 8	24	0	5	0.224	NA.	Y
	8 of 8	14	0	4	0.224 NA	NA NA	N
Chrysene		14	J	"			1
3-Dichlorobenzidine	0 of 8	i , l			NA 50	NA 0.000	N
lis(2-ethylhexyl)phthalate	7 of 8	11	nd	3	50	2,000	N
i-n-octyl phthalate	0 of 8				NA NA	2,000	N
lenzo(b)fluoranthene	8 of 8	16	0	4	NA NA	NA	N
lenzo(k)fluoranthene	8 of 8	12	0	3	NA .	NA	N
lenzo(a)pyrene	8 of 8	21	0.	4	0.0609	NA	Υ .
ndeno(1 2 3-cd)pyrene	8 of 8	7	0	2		NA	N
lbenzo(a h)anthracene	8 of 8	4	0	1	0.0143	NA NA	Y

Benzo(gni)perviene

Units in micrograms per kilopgram (ug/kg).

US EPA Health Based Cleanup Objectives as reported in NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 (January 1994).

Units in milligrams per kilopgram (mg/kg).

Table 4-2. Surface Soil Screening - PCBs. Salvation Army Parcel Investigation. October 2003

Aroclor	Number of	Maximum	Minumum	Maximum Minumum Average	US EPA Health Based Cleanup Objective	e ¹ Retained?
	Detections	Value	Value	Value	Carcinogenic Systemic Toxicant	, XN
Aroclor 1016	0 of 8				⊢	L
Aroclor 1221	0 of 8					
Aroclor 1232	0 of 8					
Aroclor 1242	0 of 8					
Aroclor 1248	0 of 8					
Aroclor 1254	7 of 8	0.47	멸	0.23		
Aroclor 1260	5 of 8	0.69	<u>p</u>	1.17		
Total PCBs	7 of 8	1.16	pu 💮	0.22		X. X

¹ US EPA Health Based Cleanup Objectives as reported in NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 (January 1994). nd - not detected N/A Value is not available. Units in milligrams per kilopgram (mg/kg).

Table 4-4. Sub-surface Soil Screening - Target Compound List Volatile Organic Compounds. Salvation Army Parcel Investigation. October 2003.

Company	Number of	Maximum	Minumum	Average	US EPA Health Based	Cleanup Objective ¹	Retained?
Compound	Detections	Value	Value	Value	Carcinogenic	Systemic Toxicant	Y/N
Chloromethane	0 of 3				NA	NA	N
Vinyl chloride	0 of 3	1			NA	NA	N
Bromomethane	0 of 3				NA	NA .	N
Chloroethane	0 of 3				NA	NA	N
1 1-Dichloroethene	0 of 3				12	700	N
Carbon disulfide	0 of 3				NA	8,000	N
Acetone	0 of 3				NA	8,000	N
Methylene chloride	3 of 3	0.004	0.002	0	93	5,000	N
trans-1 2-Dichloroethene	0 of 3				NA	2,000	N
1 1-Dichloroethane	0 of 3				NA	NA	N
Vinyl acetate	0 of 3				NA	NA	N
cis-1 2-Dichloroethene	0 of 3				NA	NA	N
2-Butanone (MEK)	0 of 3				NA	4,000	N
Chloroform	0 of 3				114	800	N
1 1 1-Trichloroethane	0 of 3				NA	7,000	N
Carbon tetrachloride	0 of 3				5	60	N
Benzene	3 of 3	0.005	0.0007	0.00	24	NA	N
1 2-Dichloroethane	0 of 3				8	NA	N
Trichloroethene	0 of 3				64	NA	N
1 2-Dichloropropane	0 of 3				NA	NA	N
Bromodichloromethane	0 of 3	ĺ			NA	NA	N
cis-1 3-Dichloropropene	0 of 3				NA	NA	N
4-Methyl-2-pentanone (MIBK)	0 of 3				NA	NA	N
Toluene	3 of 3	0.005	0.001	0.00	NA	20	N
trans-1 3-Dichloropropene	0 of 3				NA	NA	N
1 1 2-Trichloroethane	0 of 3				NA	NA	N
Tetrachloroethene	0 of 3				14	800	N
2-Hexanone	0 of 3				NA	NA	N
Dibromochloromethane	0 of 3				NA	NA	N
Chlorobenzene	0 of 3				NA	2,000	N
Ethylbenzene	2 of 3	0.5	ND	0.17	NA	8,000	N
Styrene	0 of 3				NA	NA	N
Bromoform	0 of 3				NA	NA	N
1 1 2 2-Tetrachloroethane	0 of 3				35	NA	N
Xylenes (total)	2 of 3	1	ND	0	NA	200,000	N

¹ US EPA Health Based Cleanup Objectives as reported in NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 (January 1994).

NA Value is not available.
Units in milligrams per kilopgram (mg/kg).

nd - not detected

Table 4-5. Sub-surface Soil Screening - Target Compound List Semi-Volatile Organic Compounds. Salvation Army Parcel Investigation. October 2003

COMPOUND	Number of	Maximum	Minumum	Average		sed Cleanup Objective ¹	Retained?
	Detections	Value	Value	Value	Carcinogenic	Systemic Toxicant	Y/N
Phenol	0 of 3	-		-	NA NA	50,000	N
Bis(2-chloroethyl)ether	0 of 3	٠ .	-	-	NA NA	NA NA	N N
1 3-Dichlorobenzene	0 of 3	-	-	-	NA		N N
1 4-Dichlorobenzene	0 of 3	•	-	-	NA NA	NA NA	N
1 2-Dichlorobenzene	0 of 3	-	-	1	NA NA	NA NA	N
Benzyl alcohol	0 of 3	-	-	-	NA NA	NA NA	N
2-Methylphenol	0 of 3	-	-	-	NA NA	NA NA	N
2 2-oxybis (1-chloropropane)	0 of 3	-	1 :		NA NA	NA NA	N
n-Nitroso-di-n-propylamine	0 of 3	-	-	[1	NA NA	Ň
Hexachloroethane	0 of 3				NA NA	4.000	N
4-Methylphenol	0 of 3	:	:	_	NA NA	400	N
2-Chlorophenol	0 of 3	-	:		NA NA	40	N
Nitrobenzene	0 of 3 0 of 3	:	:	:	NA NA	NA NA	N
Bis(2-chloroethoxy)methane		[:	1 :	NA NA	NA NA	N
1 2 4-Trichlorobenzene	0 of 3 0 of 3	1 :	:	[NA NA	NA NA	N
Benzoic acid	0 of 3	· -		-	1,707	20,000	N
Isophorone		1	-	1 :	NA NA	NA	N
2 4-Dimethylphenol	0 of 3	i -	-		NA NA	NA NA	N
Hexachlorobutadiene	0 of 3	_			NA NA	300	N
Naphthalene	0 of 3	l .		:	NA NA	200	N
2 4-Dichlorophenol	0 of 3]	[:	200	300	N
4-Chloroaniline	0 of 3		[[NA	NA	N
2 4 6-Trichlorophenol	0 of 3	[-	•	NA NA	8.000	N
2 4 5-Trichlorophenol	0 of 3	-	-	-	NA NA	NA	N
Hexachlorocyclopentadiene	0 of 3		-	22.70	NA NA	NA NA	l n
2-Methylnaphthalene	1 of 3	35	nd	22.70	NA NA	NA NA	N
2-Nitroaniline	0 of 3	-		-	NA NA	NA NA	N
2-Chloronaphthalene	0 of 3	-	-	[NA NA	NA NA	l n
4-Chloro-3-methylphenol	0 of 3	-	-	-	1,03	NA NA	N
2 6-Dinitrotoluene	0 of 3	-	-	-	NA	NA NA	N
2-Nitrophenol	0 of 3	-	-	-	NA NA	NA NA	N
3-Nitroaniline	0 of 3	-	-	-	NA NA	80,000	N
Dimethyl phthalate	0 of 3		•]	NA NA	200	N
2 4-Dinitrophenol	0 of 3	-		_	NA NA	NA	Ň
Acenaphthylene	0 of 3	•	-	-		NA NA	N
2 4-Dinitrotoluene	0 of 3	19	nd	12.46	NA NA	5.000	Ň
Acenaphthene	1 of 3			12.40	NA NA	NA	N
Dibenzofuran	1 of 3	19	nd	12.40	NA NA	NA NA	N
4-Nitrophenol	0 of 3 1 of 3	25	nd	16.46	NA NA	3,000	N
Fluorene	0 of 3	25	110	10.40	NA NA	NA NA	N
4-Nitroaniline	0 of 3	1 .			NA NA	NA NA	N
4-Bromophenyl phenyl ether	0 of 3	[]			0.41	60	N
Hexachiorobenzene	0 of 3	:			NA	60,000	N
Diethyl phthalate	0 of 3	[[]	NA NA	00,000	N
4-Chlorophenyl phenyl ether	0 of 3	:		l	NA NA	2.000	N
Pentachlorophenol	0 of 3]	-	[NA NA	NA	N
n-Nitrosodiphenylamine	0 of 3	[[NA NA	NA NA	N
4 6-Dinitro-2-methylphenol		30	nd	20.20	NA NA	NA NA	N
Phenanthrene	1 of 3 1 of 3	15	nd nd	9.92	NA NA	20,000	N
Anthracene	1 of 3	28	nd	18.13	NA NA	NA	N
Carbazole	0 of 3	20	110	10.13	NA NA	8,000	N
Di-n-butyl phthalate	1 of 3	28	nd	19.13	NA NA	3,000	N
Fluoranthene	1 of 3	26	nd	16.13	NA	2,000	N
Pyrene	0 of 3	24	110	10.13	NA NA	20,000	N
Butyl benzyl phthalate	1 of 3	19	1.35	12.77	0.224	NA NA	Y
Benzo(a)anthracene Chrysene	1 of 3	21	1.2	14.07	NA	NA NA	N
	0 of 3	[1.2	17.07	NA NA	NA NA	N
3 3-Dichlorobenzidine	3 of 3	0.39	0.15	0.27	50	2,000	N
Bis(2-ethylhexyl)phthalate	0 of 3	0.35	0.15	5.27	NA NA	2,000	N
Di-n-octyl phthalate	1 of 3	48	nd	31.40	NA NA	NA NA	N
Benzo(b)fluoranthene	1 of 3	40	nd	31.99	NA NA	NA NA	N
Benzo(k)fluoranthene	1 of 3	- 20	nd nd	13.37	0.0609	NĀ	Y
Benzo(a)pyrene	1 of 3	23	nd nd	14.88	V.0003	NA	N
Indeno(1 2 3-cd)pyrene	1 of 3	23 23	0.33	14.00	0.0143	NA NA	e yes
Dibenzo(a h)anthracene			nd nd	13.88	0.0143 NA	NA	N
Benzo(ghi)perylene	1 of 3	21	110	19.00	144		<u> </u>

US EPA Health Based Cleanup Objectives as reported in NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 (January 1994).

nd - not detected N/A Value is not available. Units in milligrams per kilopgram (mg/kg).

Table 4-6. Sub-surface Soil Screening - Metals. Salvation Army Parcel Investigation. October 2003

Analyte	Number of	Number of Maximum	Minumum	Average	Reccomended Soil	Retained?
	Detections	Value	Value	Value	Cleanup Objective*	N/A
Mercury	0 of 3	ı	,		0.1	z
Aluminum	3 of 3	11,800	2,680	9,310	SB	z
Antimony	1 of 3	-	2	-	SB	z
Arsenic	3 of 3	4	ო	4	7.5	z
Barium	3 of 3	134	47	66	300	z
Beryllium	1 of 3	1	pu	1.	0.16	Y
Cadmium	0 of 3	•	•	1	-	z
Calcium	3 of 3	54,300	12,800	40,433	SB	z
Chromium	3 of 3	- 19	12	. 14	101	Λ
Cobalt	3 of 3	12	œ	O	30	z
Copper	3 of 3	27	. 18	22	. 25	λ
Iron	3 of 3	22,900	16,400	18,733	2000	×
Lead	3 of 3	59	۵	25	SB	z
Magnesium	3 of 3	21,000	4,640	15,113	SB	z
Manganese	3 of 3	517	328	413	SB	z
Nicket	3 of 3	.28	19	22		V
Potassium	3 of 3	2,070	1,820	1,917	SB	z
Selenium	0 of 3	•			2	z
Silver	0 of 3	•		,	SB	z
Sodium	3 of 3	934	615	807	8S	z
Thallium	0 of 3	,	1	ı	SB	z
Vanadium	3 of 3	22	14	17	150	z
7150		Service Services	大学 一大学	はないのでは、一人とはないので		计图像设计图像的现在分

^{*} Recommended Soil Cleanup Objectives as reported in NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 (January 1994).

Table 4-7. Groundwater Screening - VOCs/SVOCs. Salvation Army Parcel Investigation. October 2003

Compound (110/1)	Number of	Maximum	Minumum	TOGS	Retained?
Calliboaria (ag/ L-)	Detections	Value	Value	STD.*	N/X
Methylene chloride	1 of 7	-	pu		z
Benzene	1 017	4	Pu		X
Tetrachloroethene	1 of 7	N	pu	ഹ	z
Xylenes (total)	2 of 7	2	DL	Ŋ	z
Fluorene	1 of 7	0.4	рu	50G	z
Phenanthrene	1 of 7	0.3	מל	50G	z
Diethyl phthalate	1 of 7	6.0	bu		z
Di-n-butyl phthalate	2 of 7	0.7	pu	50G	z
Fluoranthene	1 of 7	9.0	pu	50G	z
Pyrene	1 of 7	8	pu	50G	z
Benzo(a)anthracene	1 of 7	-	pu	2	z
Chrysene	1 of 7	Ø	pu	0.002G	z
Bis(2-ethylhexyl)phthalate	2 of 7	2	pu	5	z

* Standards are from NYSDEC Technical and Operational Guidance Series (TOGS) Ambient Water Quality Standards & Guidance Values. not detected.

Table 4-8. Groundwater Screening - Metals. Salvation Army Parcel Investigation. October 2003

Analyte	Number of	Maximum	Minumum	Average	TOGS	Retained?
(ng/L)	Detections	Value	Value	Value	STD.*	N/X
Mercury	2 of 7	2	pu	1	1 2	\
Aluminum	7 of 7	5,160	09	2,566		Z
Antimony	0 of 7				က	z
Arsenic	1 of 7	4	nd	4	25	z
Barium	7 of 7	272	57	158	1,000	z
Beryllium	0 of 7				3G	z
Cadmium	0 of 7				Ŋ	z
Calcium	7 of 7	254,000	71,400	169,486		z
Chromium	5 of 7	7	pu	က	20	z
Cobalt	6 of 7	2	pu	4		z
Copper	6 of 7	. 20	pu	6	200	X
Iron	7 of 7	16,100	1,640	7,293	300	,
Lead	6 of 7	7	pu	5	25	Z
Magnesium	7 of 7	69,400	15,400	38,543	35,000G	>
Manganese	7 of 7	7,670	249	1,885	300	>
Nickel	6 of 7	21	pu	6	100	Z
Potassium	7 of 7	12,500	1,460	5,456		z
Selenium	1 of 7	11	pu	9	10	z
Silver	0 of 7	:			20	z
Sodium	7 of 7	226,000	26,400	75,186	20,000	>
Thallium	0 of 7				0.5G	z
Vanadium	5 of 7	7	pu	4		Z
Zinc	4 of 7	24	pu	17	2,000G	z
				-		

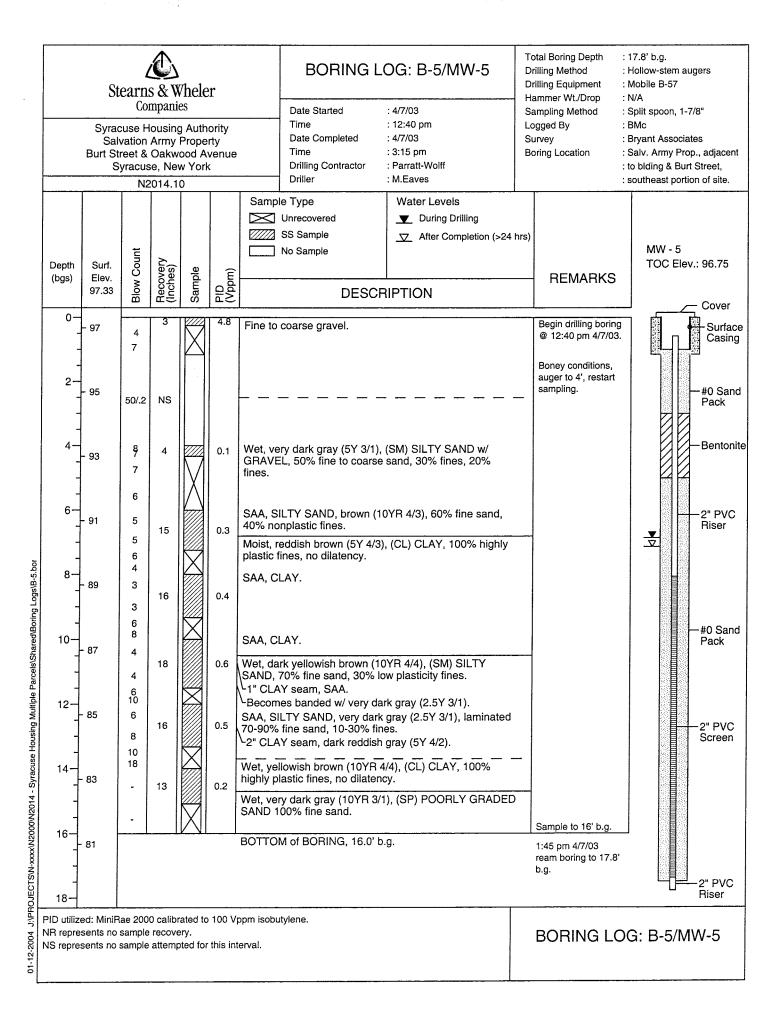
* Standards are from NYSDEC Technical and Operational Guidance Series (TOGS) Ambient Water Quality Standards & Guidance Values.

nd - not detected.

APPENDIX A

Boring Logs

	rns & W		er		BORING L	OG: B-4/MW-4	Drilling Method Drilling Equipment	: 17' b.g. : Hollow-stem augers : Mobile B-57 : N/A
Syracus Salvati Burt Stree	Companie e Housing ion Army t & Oakwo cuse, Nev N2014.1	g Auth Prope ood A w York	rty venue		Date Started Time Date Completed Time Drilling Contractor Driller	: 4/7/03 : 10:25 am : 4/7/03 : 3:30 pm : Parratt-Wolff : M.Eaves	Sampling Method Logged By Survey Boring Location	: Split spoon, 1-7/8" : BMc : Bryant Associates : Salv. Army Prop., adjacent : to loading dock, southeast : portion of site.
Depth Surf. (bgs) Elev. 98.17	Blow Count Recovery (Inches)	Sample	Old (Vppm)		No Sample	Water Levels ▼ During Drilling □ After Completion (>24	hrs) REMARKS	MW - 4 TOC Elev.: 97.91
0—98 1 1 2—96 1 1 4—94 6 6—92 8 1 6—92 8 1 8—90 6 1 8—90	6 12 12 12 00 00 5 8 8 8 8 3 3 9 5 5 5 18 15 6 6 3 3 15 6 6 3 16 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		0.7 1.2 1.3 0.6	Grass Moist, GRAV 20% fill SAA, S 40-50% Moist, 4/2), (N sand, I Moist, SAND, SAA, F yellowing fine sa 1/4-1/Wet, b plastic SAA, C Grader Wet, bifines, I Wet, of SAND, Wet, dihighly	mes. SILTY SAND, 50-60% for fines, dark gray (2.5) mottled brown & dark gray (2.5) mottled brown & dark gray (2.5) motiled brown & dark gray (2.5) motiled brown & dark gray (2.5) motiled brown & dark gray (2.5) place of the sand, 5% fines and, 5% fines and, 5% fines and, 5% fines and & fine to medium sage and a fine to me	ine to medium sand, (* 4/1). grayish brown (10YR 4/3 & nonplastic fines, 40% fine (SP) POORLY GRADED les. ND, wet, mottled dark (R 4/4 & 2/1), laminated w/ and. (7.5YR 5/3). CLAY, 100% highly SILT, 100% nonplastic SP) POORLY GRADED	Begin drilling boring @ 10:25 am 4/7/03.	
ă 7 I	5 10		0.4	Wet, da GRADI Three	ED SAND, 95-100% fin	100% nonplastic fines.	Sample to 16' b.g. 11:35 am 4/7/03 ream boring to 17'	2" PVC Riser
PID utilized: MiniRae NR represents no sar NS represents no sar	nple recov	ery.			utylene.		BORING LO	OG: B-4/MW-4



Total Boring Depth : 14.8' b.g. BORING LOG: B-6/MW-6 **Drilling Method** : Hollow-stem augers **Drilling Equipment** : Mobile B-55 Stearns & Wheler Hammer Wt./Drop **Companies** Date Started : 4/9/03 Sampling Method : Split spoon, 1-7/8" Time : 8:55 am Logged By : BMc Syracuse Housing Authority : 4/9/03 Date Completed Salvation Army Property Survey : Bryant Associates Time : 11:30 am Burt Street & Oakwood Avenue Boring Location : Salv. Army Prop., adjacent Syracuse, New York **Drilling Contractor** : Parratt-Wolff : to Oakwood Avenue. Driller : M.Eaves : southeast portion of site. N2014.10 Water Levels Sample Type Unrecovered During Drilling SS Sample MW - 6 No Sample Blow Count Recovery (Inches) Surf. TOC Elev.: 99.23 Depth Sample PID (Vppm) (bgs) Elev. REMARKS 99.76 **DESCRIPTION** Cover 0. 3 Begin drilling boring Surface 8 ND 10 Moist, very dark gray (2.5Y 3/1), (GM) SILTY GRAVEL @ 8:55 am 4/9/03. Casing 99 w/ SILT 50% fine to coarse gravel, 30% fines, 20% fine 15 to coarse sand. Refusal on large Bentonite 26 subsurface 2-Concrete obstruction. structure @ 2' b.g., move 3' south & redrill to 4' and 97 50/0 NS restart sampling. Wet, dark brown (10YR 3/3), (SC) CLAYEY SAND, 4 2" PVC 3 4 ND 50-60% fine sand, 40-50% highly plastic fines, trace Riser glass & brick. 3 95 4 Wet, dark brown (10YR 3/3), (ML) SANDY SILT, 70-80% 6 low plasticity fines, 20-30% fine sand. J:\PROJECTS\N-xxxx\N2000\N2014 - Syracuse Housing Multiple Parcels\Shared\Boring Logs\B-6.bor 3 J. 1/4-1/2" SAND layers, dark gray (10YR 4/1), 100% fine 93 20 ND sand. V 2 Wet, dark yellowish brown (10YR 3/4), (CL) CLAY, #0 Sand 100% highly plastic fines, no dilatency. Pack 3 Wet, dark grayish brown (10YR 4/2), (ML) SILT w/ 8 SAND, 80% low plasticity fines, 20% fine sand, rapid 3 dilatency. 91 19 ND 1" SAND layer, yellowish brown (10YR 5/6) 2 Wet, dark grayish brown (10YR 4/2), (CL) CLAY, 100% 2" PVC 2 Screen highly plastic fines, no dilatency. 10 SAA, CLAY, very dark grayish brown (10YR 3/2). 2 89 ND 21 2 3 12 SAA, CLAY. 3 ND 87 18 4 Wet, very dark gray (10YR 3/1), (SM) SILTY SAND, 80% 3 fine sand, 20% fines. Sample to 14' b.g. 14 BOTTOM of BORING, 14.0' b.g. 10:05 am 4/9/03 " PVC ream boring to 14.8' Riser PID utilized: MiniRae 2000 calibrated to 100 Vppm isobutylene. NR represents no sample recovery. BORING LOG: B-6/MW-6 NS represents no sample attempted for this interval.

01-12-2004

APPENDIX B

Geophysical Survey Report (Enviroscan, Inc, June 24, 2003)



June 24, 2003

Mr. Donald Sorbello **S&W Redevelopment of North America, LLC**430 East Genesee Street
Suite 401

Syracuse, NY 13202

RE: Geophysical Survey

Unclassified Target Detection/Delineation Salvation Army Site and Andrews Lumber Site

Syracuse, NY

Enviroscan Project Numbers 090232a and 090232b

Dear Mr. Sorbello:

Pursuant to our proposals dated November 21, 2002, Enviroscan completed a combined electromagnetic (EM) and ground penetrating radar (GPR) survey on the above-referenced sites on May 29, 2003. The purpose of both surveys was to detect and delineate targets (with one or more dimensions of a single target being five (5) feet or greater) up to 10 feet beneath each site.

The survey was performed on two sites. The first area scanned was a former Salvation Army building located on the 300 block of Burt Street, Syracuse, NY. The survey area of the Salvation Army Site was approximately 56,000 square feet. The ground cover consisted mainly of asphalt and high grass with few obstructions (see Figure 1). Please note that areas of thick vegetation or areas adjacent to surficial metal could not be surveyed. Also note that the client removed a small portion from the overall survey area on the western side of the property due to the presence of a reinforced concrete pad.

The second site was located at Andrews Lumber at 512 Burt Street, Syracuse NY. The survey area of the Andrews Lumber Site was approximately 61,000 square feet. The ground cover consisted of gravel and concrete with small areas of high grass. As noted above, areas of thick vegetation or areas adjacent to surficial metal could not be surveyed. The methods and results of both surveys are described below.



Mr. Sorbello June 24, 2003 Page 2

Survey Methods

Fisher TW-6 Instrument

The survey areas were scanned with the Fisher TW-6 deep-focused metal detector (MD). All accessible areas of each site were scanned with the TW-6 MD in a rough 5-foot grid. The TW-6 identifies electrically conductive materials by creating an electromagnetic field with a transmitting coil. A receiving coil at a fixed separation from the transmitter measures the field strength. As the instrument is swept along the ground surface, subsurface conductive bodies distort the transmitted field. The change in field strength is sensed by the receiver, setting off an audible alarm. The TW-6 EM instrument employed for this survey can nominally detect a conductive mass equivalent to a ¾-inch pipe to a depth of 5 feet, and a 10-inch pipe to a depth of 15 feet.

GSSI SIR-2 GPR Instrument

The TW-6 anomalies were further defined using the GSSI SIR-2 GPR controller and 500-megaHertz scanning antenna (generally capable of scanning to a depth of 10 to 15 feet). GPR systems produce cross-sectional images of subsurface features and layers by continuously emitting pulses of radar frequency energy from a scanning antenna as it is towed along a survey profile. The radar pulses are reflected by interfaces between materials with differing dielectric properties. The reflections return to the antenna and are printed on a strip chart recorder or displayed on a video monitor as a continuous cross section in real time. Since the electrical properties of metals are dramatically different from soil and backfill materials, metallic USTs and piping produce distinct and characteristic reflections. Fiberglass, plastic, concrete, and terra-cotta targets as well as subsurface voids, rock surfaces, soil composition or moisture content variations, and concentrations of many types of metallic and non-metallic wastes also produce recognizable, but less dramatic reflections.

GPR scanning was performed by hand-towing the antenna along numerous and variously oriented profiles crossing the footprints of TW-6 anomalies. The GPR profiles were inspected in real time to identify high-amplitude reflections of the type commonly associated with targets such as tanks, drums, and debris.

Mr. Sorbello June 24, 2003 Page 3

The resulting TW-6 EM and GPR anomaly footprints were marked on the ground in semi-permanent marking paint and digitally recorded using a backpack-mounted Trimble Pathfinder global positioning system (GPS) receiver in contact with six to eight position-fixing satellites. The GPS positions were differentially corrected to a community base station in Oswego, NY. The resulting differential GPS (DGPS) positions have a nominal accuracy of better than 2 feet (+/-).

Survey Results

Salvation Army Site

The TW-6 scanning results indicated the presence of six metallic anomalies (labeled SA1 through SA6, Figure 1). The descriptions and possible sources of each anomaly are included in Table 1. Selected GPR scan cross sections are included in Figure 1, and represent one or two passes (in orthogonal directions) across the TW-6 anomalies. GPR scanning of the anomalies for which two cross sections are displayed revealed a definable object that could be delineated. Note that in some cases, a record is not shown if GPR imaging revealed no discernable object, in which case the source was most likely near-surface scattered metallic debris. In general, GPR penetration was good across this site, with an average depth of investigation of approximately 7 to 8 feet below ground surface.

Andrews Lumber Site

The TW-6 scanning results within all accessible areas indicated the presence of seven metallic anomalies (labeled AN1 through AN7, Figure 2). The descriptions and possible sources of each anomaly are included in Table 1. Selected GPR images are included in Figure 2, and each represents a single pass across the TW-6 anomaly. GPR penetration at this site was very poor, resulting in reliance upon the TW-6 results for target delineation. At the client's request, selected examples of GPR data with poor signal penetration were recorded as representative site samples (AN2, AN5, AN6).

Mr. Sorbello June 24, 2003 Page 4

Limitations

The geophysical survey described above was completed using standard and/or routinely accepted practices of the geophysical industry and equipment representing the best available technology. Enviroscan does not accept responsibility for survey limitations due to inherent technological limitations or unforeseen site-specific conditions. However, we make every effort to identify and notify the client of such limitations or conditions. In addition, note that the completion of this survey does not relieve any party of applicable legal obligation to notify the appropriate "one call" service prior to drilling or digging.

We have enjoyed and appreciated the opportunity to have worked with you. If you have any questions, please do not hesitate to contact me.

Sincerely,

Enviroscan, Inc.

William E. Steinhart III, M.Sc., P.G. Geophysics Project Manager

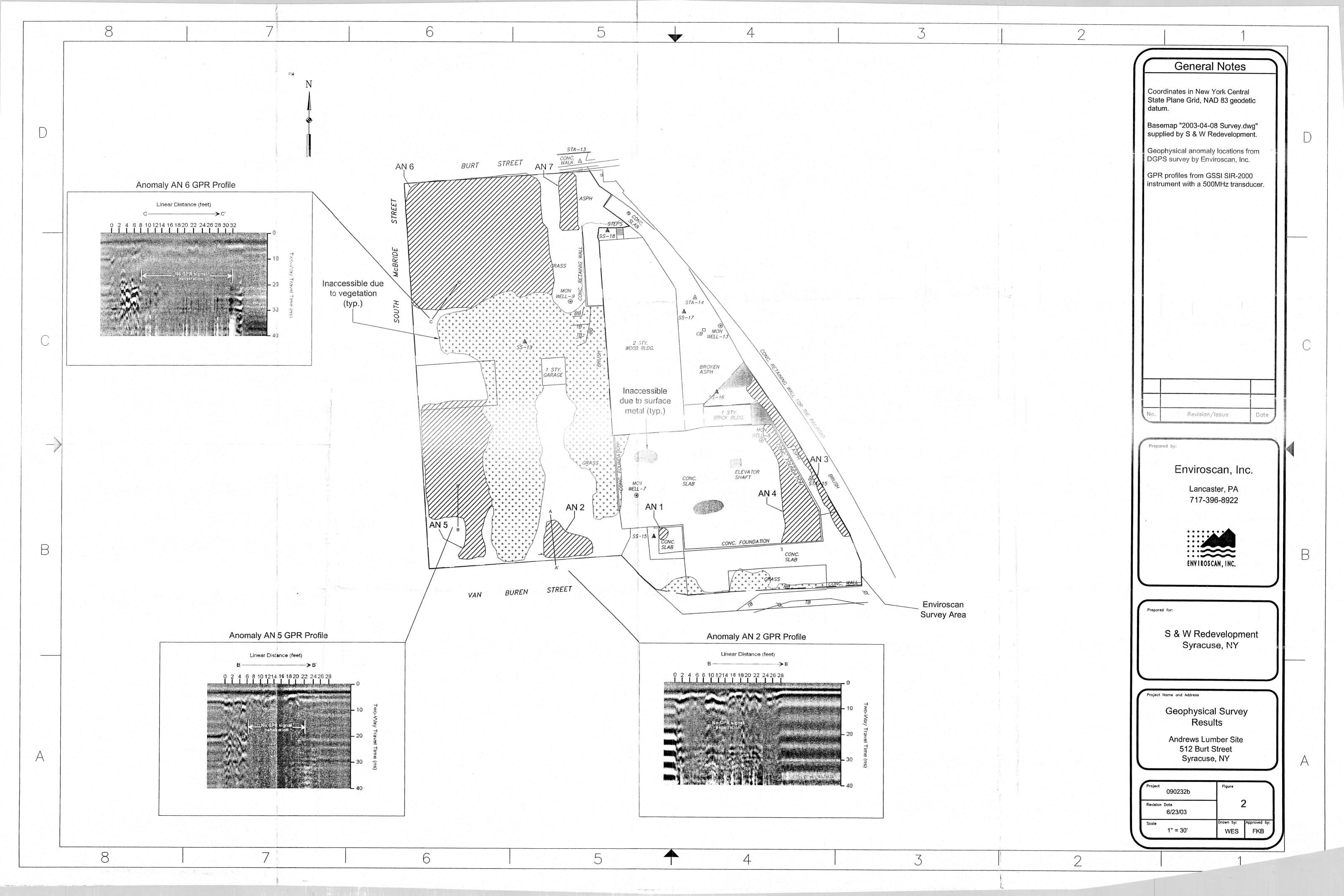
Technical Review By: Enviroscan. Inc.

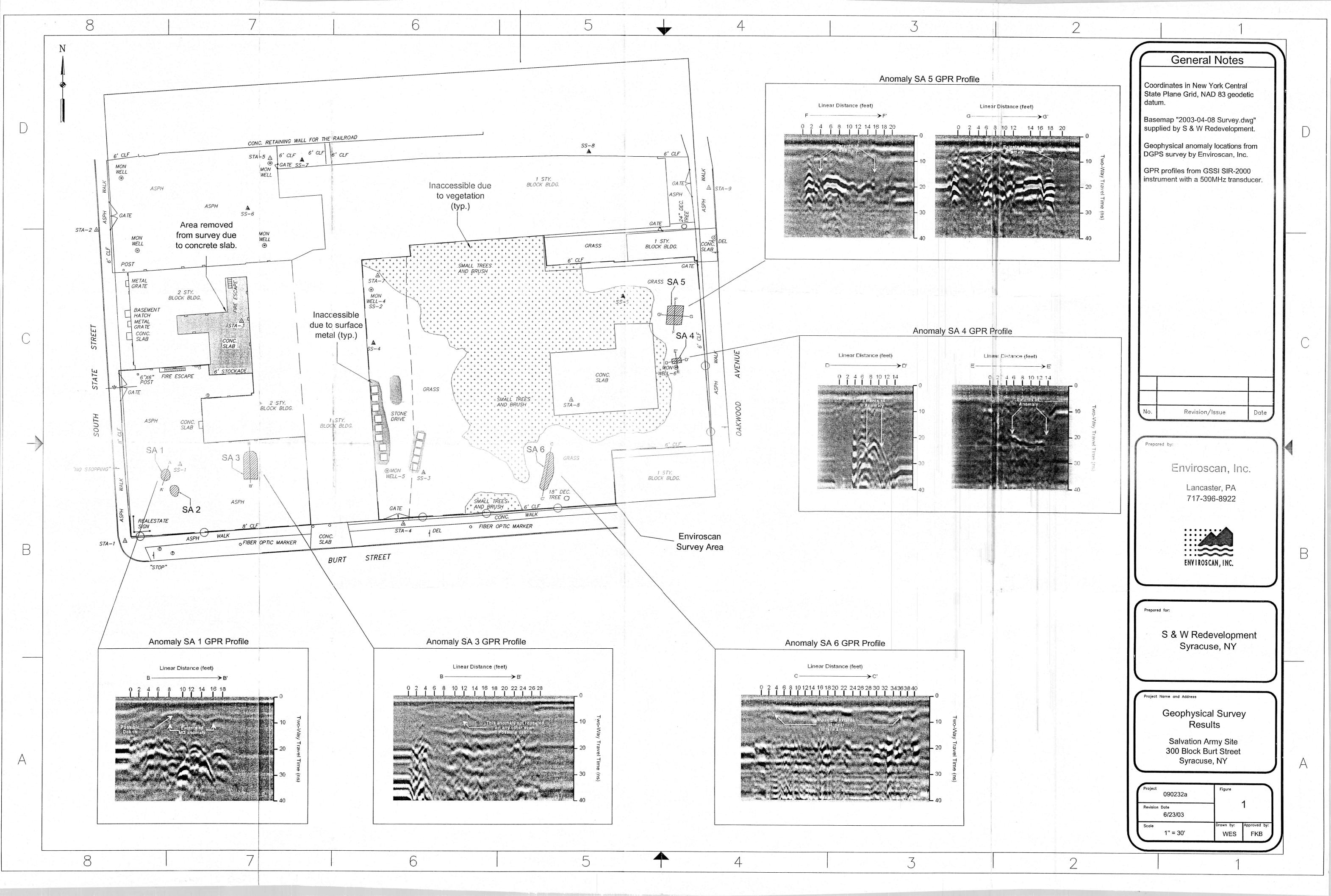
Felicia Kegel Bechtel, M.Sc., P.G. President

enc.: Figure 1: Geophysical Survey Results, Salvation Army Site

Figure 2: Geophysical Survey Results, Andrews Lumber Site

Table 1: Ground Penetrating and Metal Detection Follow-up Survey Results





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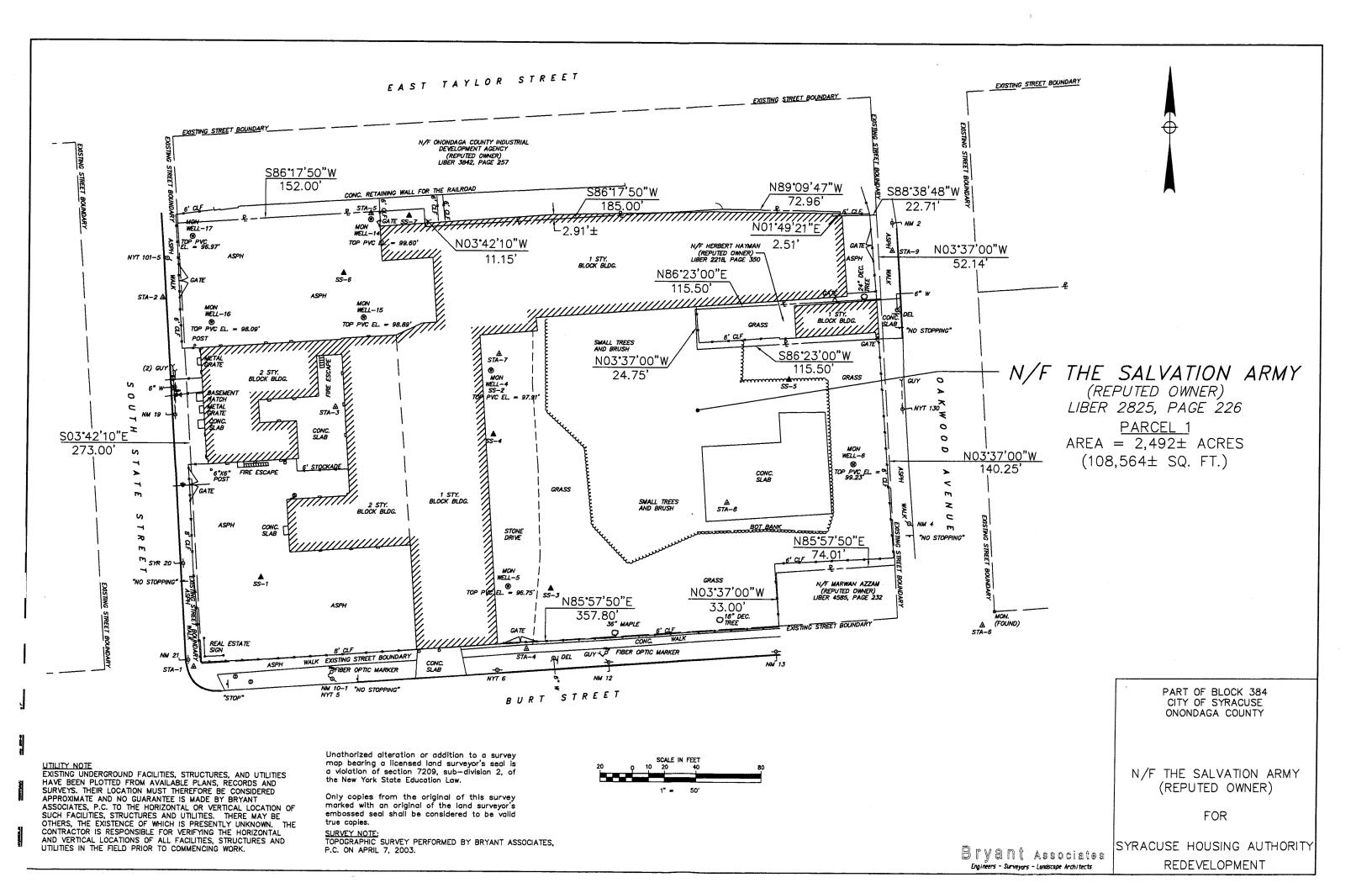
Anomaly	Detected by TW-6 (MD)	Imaged with GPR	Metal Detection Anomaly Size	GPR Anomaly Size (feet)	Description
			(leer)	Salvation Amiv Stea	
SA 1	YES	YES	8-foot diameter	same	g MD
SA2	YES	ON	6 X 8	N/A	No distinct GPR anomaly associated with MD anomaly. Possible
SA3	YES	ON	16 X 10	N/A	No distinct GPR anomaly associated with MD anomaly. Possible
SA 4	YES	YES	7 x 3.5	same	Strong MD anomaly. GPR imaging showed anomaly with shape and amplitude consistent with e.g. a buried drum oriented with long axis
SA 5	YES	YES	13 X 13	5 X 16	Strong MD anomaly. GPR imaging showed object with shape and amplitude consistent with LIST
SA 6	YES	ON	7 X 31	N/A	Weak MD anomaly. GPR imaging showed highly disturbed subsurface with no definable objects. Possible debris
				Andrews Lumber Site	
AN 1	YES	ON	6 X 6	N/A	Strong MD anomaly. GPR depth of investigation was effectively zero for this area, due to reinforced concrete pad above the anomaly.
AN 2	YES	YES	24 X 35 (approx.)	see notes	Moderately strong MD anomaly. GPR imaging showed highly disturbed subsurface with no definable objects. Describe debrie with
AN 3	YES	YES	6 X 135	see notes	Strong MD anomaly. GPR imaging showed highly disturbed subsurface with no definable objects, and no distinction between anomalous areas.
AN 4	YES	NO	90 X 10 (NW), 25 (SE)	see notes	Strong MD anomaly. GPR depth of investigation was effectively zero for this area, due to reinforced concrete pad above the anomaly.
AN 5	YES	ON	45 X 117	see notes	Entire parking area had highly elevated MD levels, and no GPR investigation depth. This is probably due to electrically conductive fill material used in the construction of the parking area.
AN 6	YES	ON	100 X 100	see notes	Entire parking area had highly elevated MD levels, and no GPR investigation depth. This is probably due electrically conductive fill material used in the construction of the parking area.
AN 7	YES	ON	15 X 30	see notes	Moderate to strong MD anomaly. GPR depth of investigation was effectively zero for this area, due to electrically conductive fill material used in construction of the driveway.

Blue Bell Site Gwynedd, PA

Enviroscan Inc. Project No. 040310 Rev. 6/4/03

APPENDIX C

Site Survey



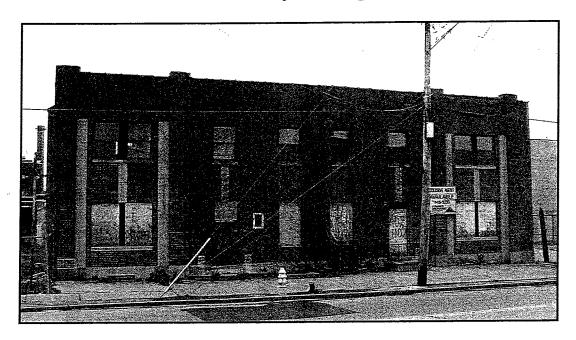
APPENDIX D

Asbestos Survey Report (Envirologic, Inc, May 19, 2003)



PRE-DEMOLITION ASBESTOS SURVEY REPORT

Former Salvation Army Building, Syracuse, NY



PREPARED FOR:

S & W Redevelopment of North America, LLC 430 East Genesee Street, Suite 401 Syracuse, NY 13202

PREPARED BY:

Envirologic of New York, Inc. 5858 East Molloy Road, Suite 146 Syracuse, New York 13211

Conducted: April 28-29, 2003 **Submitted:** May 19, 2003

Envirologic Project No. EL03B-47



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Laboratory Analysis Reports & Sample Data Sheets

APPENDIX B Certifications

APPENDIX C
Sample Locations

APPENDIX D

NYSDOL Building Demolition Survey – Minimum Sampling Guidelines

Envirologic of New York, Inc.

SECTION I – Project Overview

In accordance with a request made by S & W Redevelopment of North America, LLC, Envirologic of New York, Inc. completed a pre-demolition asbestos survey for the Former Salvation Army structure located on Burt Street, Syracuse, New York. The inspection was conducted in accordance with the requirements outlined in the New York State Department of Labor's (NYSDOL) asbestos standard (12 NYCRR Part 56) as specified in Subpart 56-1, Section 56-1.9 "Building Demolition Survey".

Inspection services were performed by Mr. Stephen J. Chalone (NYSDOL Certificate # AH 91-04967), Mr. David J. Wells (NYSDOL Certificate # AH 94-07554) and Mr. Brian Arlukiewicz (NYSDOL Certificate # AH 02-20087). Mr. Chalone and Mr. Wells are certified as Asbestos Inspectors by the New York State Department of Labor (NYSDOL).

Project services provided by Envirologic included the following:

- 1. Inspection of the subject structure by New York State Department of Labor (NYSDOL) certified asbestos inspectors;
- 2. Collection of bulk samples of suspect asbestos-containing materials and subsequent analysis by New York State Department of Health (NYSDOH) approved laboratories;
- 3. Preparation of this report.

SECTION II – Methodologies

Inspection Procedures:

The inspection was carried out in accordance with the requirements outlined in the New York State Department of Labor's (NYSDOL) asbestos standard (12 NYCRR Part 56) as specified in subpart 56-1.9(b)(2)(3) "Building Demolition Survey".

This section of the regulation states that in the absence of applicable building plans or records, the identification of asbestos or asbestos material shall be by the sampling and analysis of suspect material with analysis by a New York State Department of Health (NYSDOH) certified laboratory (see 56-1.9(b)(2)).

SECTION II - Methodologies (Continued)

Each area was thoroughly inspected by visual means to identify potential asbestos-containing materials (ACM). Inspection personnel assessed each suspect material to determine whether it represented a friable, non-friable or non-friable organically bound (NOB) material. These materials were then identified, quantified and sampled for subsequent laboratory analysis. Estimated quantities of potential ACM were obtained using measurements made in the field by inspection personnel.

<u>NOTE:</u> Quantities of ACM are estimates only. Actual quantities should be field verified by abatement personnel when bids or quotations are obtained for asbestos removal services.

Analytical Services:

Polarized Light Microscopy (PLM) and Transmission Electron Microscopy (TEM) analytical services were performed by Envirologic of New York, Inc. (NYSDOH ELAP # 11555) and EMSL Analytical, Inc. of New York City (NYSDOH ELAP # 11506) (NVLAP #101048-9).

Friable bulk samples were analyzed using the Stratified Point Count Method with Polarized Light Microscopy and Dispersion Staining (PLM/DS) techniques. Samples were first examined for homogeneity and preliminary fiber identification using a low powered stereoscopic binocular microscope. Afterwards, positive identification of any asbestos fibers present is made using the Polarized Light Microscope.

To comply with New York State Department of Health (NYS-DOH) regulations, Non-Friable Organically Bound (NOB) materials (i.e. roofing membranes and adhesives) that are initially found to be non-asbestos containing by the PLM/DS method must be reanalyzed by the TEM method to confirm the PLM/DS results. Non-friable Organically Bound materials were first analyzed using Polarized Light Microscopy with Gravimetric Matrix Reduction (GMR). If no asbestos was detected utilizing PLM/GMR, the sample was then analyzed by TEM methods.

SECTION III - Summary of Findings

A total of fifty-two (52) samples were collected and analyzed for asbestos content. Materials identified as a result of the inspection completed by Envirologic, as confirmed by analytical testing, that were found to be asbestos containing, included the following:

MATERIAL	LOCATION	QUANTITY	CONDITION	REFERENCE SAMPLE#
	SECTION A			
9" x 9" floor tiles, red &	Building Section A – 2 nd Floor			
green checkered pattern	◆ Map location 2-1	1,184 sq.ft.	Fair	EL03B47-1
(including black perimeter	◆ Map location 2-3	63 sq.ft.	Fair	EL03B47-2
floor tile and associated	Map location 2-4	72 sq.ft.	Fair	EL03B47-3
felt paper/mastic)	◆ Map location 2-5	117 sq.ft.	Fair	EL03B47-8
	◆ Map location 2-6	90 sq.ft.	Fair	
	Map location 2-9	72 sq.ft.	Fair	
	◆ Map location 2-13	750 sq.ft.	Fair	
	◆ Map location 2-17	200 sq.ft.	Fair	
Ceiling Material	Building Section A – 2 nd Floor			
_	◆ Map location 2-13	750 sq.ft.	Fair	EL03B47-10
12" x 12" floor tiles,	Building Section A – 1 st Floor			
brown & tan checkered	◆ Map location 1-1	144 sq.ft.	Fair	EL03B47-13
pattern (floor tile only)	Map location 1-3	800 sq.ft.	Fair	
_	◆ Map location 1-4	91 sq.ft.	Fair	
	◆ Map location 1-5	204 sq.ft.	Fair	
	◆ Map location 1-6	91 sq.ft.	Fair	
	• Map location 1-7	144 sq.ft.	Fair	
	◆ Map location 1-8	450 sq.ft.	Fair	
	• Map location 1-10	60 sq.ft.	Fair	
	• Map location 1-11	136 sq.ft.	Fair	
	• Map location 1-12	117 sq.ft.	Fair	
	• Map location 1-13	124 sq.ft.	Fair	
9" x 9" floor tiles, brown	Building Section A – 1 st Floor			
& butterscotch checkered	Map location 1-18, under carpet	35 sq.ft.	Fair	EL03B47-20
pattern (including	Map location 1-14, under carpet	680 sq.ft.	Fair	EL03B47-21
associated mastic)				EL03B47-22
Aircell type pipe	Building Section A - Bsmt & 1st Floor			
insulation & associated	Map location 1-17, floor level	1 lf	Poor	Previously
fitting insulation	Basement, throughout	120 lf	Poor	Sampled
Tank Insulation	Building Section A – 1 st Floor			Previously
(3′ x 8′)	Basement, center room	~100 sq.ft.	Poor	Sampled
	SECTION B			
Felt Paper, black	Building Section B – 2 nd Floor			
on Tupon, once	Throughout entire floor, (under)			
,	hardwood floor)	2,868 sq.ft.	Fair	EL03B47-24
	Map locations 2-1 to 2-8	, ,		
9" x 9" floor tiles, dark	Building Section B – 1 st Floor			EL03B47-28
prown & mastic	• Map location 1-3	25 sq.ft.	Poor	EL03B47-29
Mastic, black (under 12"	Building Section B – 1 st Floor	1		
		60 sq.ft.	Fair	EL03B47-27
$\frac{\text{x } 12'' \text{ white floor tiles})}{\text{Note:}} \text{If = linear feet}$	◆ Map location 1-2ea = each sq.ft. = square		rair	EL03B47-2

SECTION III - Summary of Findings (Continued)

MATERIAL	LOCATION	QUANTITY	CONDITION	REFERENCE SAMPLE#
	SECTION C			
Linoleum, brown & tan	Building Section C-2 nd Floor			
checkered pattern	◆ Map location 2-10	247 sq.ft.	Fair	EL03B47-23
	◆ Map location 2-11	264 sq.ft.	Fair	
	• Map location 2-12	256 sq.ft.	Fair	
	◆ Map location 2-13	272 sq.ft.	Fair	
	◆ Map location 2-17	276 sq.ft.	Fair	
	SECTION G			
9" x 9" floor tiles, dark	Building Section G – 1 st Floor			EL03B47-32
brown & light brown	• Map location 1-26	160 sq.ft.	Fair	EL03B47-33
checkered pattern	• Map location 1-27	225 sq.ft.	Fair	EL03B47-34
(including black perimeter				EL03B47-35
floor tile and associated				
mastic & a layer of tile				
under a wood layer found				
under the above				
mentioned materials)				
Mastic (from under 12" x	Building Section G − 1 st Floor (hall) • Map location 1-28			
12" tan floor tiles)	◆ Map location 1-28	230 sq.ft.	Fair	EL0347-38
	◆ Map location 1-33	105 sq.ft.	Fair	
Mastic Pucks (associated	Building Section C-1st Floor			
w/1' x 1' ceiling tiles)	◆ Map location 1-26	160 sq.ft.	Poor	EL03B47-39
* The quantities reported	◆ Map location 1-27	225 sq.ft.	Poor	
are for the amount of	◆ Map location 1-28	230 sq.ft.	Poor	
ceiling tiles in each area.	◆ Map location 1-30	127 sq.ft.	Poor	
The actual mastic pucks	◆ Map location 1-31	46 sq.ft.	Poor	
are ~ 1/4 of these	◆ Map location 1-33	105 sq.ft.	Poor	
measurements.	◆ Map location 1-35	124 sq.ft.	Poor	
	◆ Map location 1-36	185 sq.ft.	Poor	
12" x 12" dark tan floor	Building Section G-1st Floor			77 00D 45 45
tiles (tiles only)	◆ Map location 1-28a	56 sq.ft.	Fair	EL03B47-45
Transite Vent Pipe	Building Section G – attic			TT 000 45 50
*penetrates the roof	• Map location 1-23	3 lf	Fair	EL03B47-58

Note: If = linear feet

ea = each

sq.ft. = square feet

SECTION III - Summary of Findings (Continued)

MATERIAL	LOCATION	QUANTITY	CONDITION	REFERENCE SAMPLE#
	ROOFING MATERI	ALS		
Roof Flashing Material	Building Section A – Breezeway Roof Map location R-4	55 sq.ft.	Fair	EL03B47-66
Roofing Materials (rolled roofing and associated felt paper)	Building Section A − Courtyard Roof • Map location R-3	135 sq.ft.	Fair	EL03B47-61 EL03B47-62
Roofing Material	Building Section B - roof (R5 & R6) ◆ Throughout, found under a rubber membrane roof.	3,325 sq.ft.	Fair	EL03B47-47 EL03B47-49
Roof Flashing Material	Building Section B – roof (R5 & R6) ◆ Throughout, found under a rubber membrane roof.	1,040 sq.ft.	Fair	EL03B47-51
Roofing Material	Building Section C − roof (R7) • Throughout, found under a rubber membrane roof.	2,625 sq.ft.	Fair	EL03B47-47 EL03B47-49
Roof Flashing Material	Building Section C − roof (R7) Throughout, found under a rubber membrane roof.	880 sq.ft.	Fair	EL03B47-51
Roof Flashing Material	Building Section D – roof (R8) Throughout, perimeter of roof	500 sq.ft.	Fair	EL03B47-57
Roofing Material	Building Section F - roof (R11) • Loading Dock Roof, throughout	525 sq.ft.	Fair	EL03B47-59
* Transite Vent Pipe	Building Section F – on roof (R12) NW area	4 lf	Fair	EL03B47-58

Note: If = linear feet

ea = each

sq.ft. = square feet

The numbers in parentheses in the above tables are the area locations found on the project drawings.

Additional materials identified as a result of the inspection completed by Envirologic, as confirmed by analytical testing, that were found to be *non-asbestos containing*, included the following:

- Plaster
- Mastic on Ceramic Tiles
- Various Linoleum
- Various Roofing Materials

- Window Caulk/Glazing
- Drywall
- Various Ceiling Tiles
- Various Adhesives

Note: Non-Friable Organically Bound (NOB) materials listed above were confirmed to be non-asbestos containing as by means of Transmission Electron Microscopy (TEM) testing.

SECTION III - Summary of Findings (Continued)

All asbestos-containing materials identified as a result of inspection services, provided by Envirologic, can be found in the tables above. All materials were observed to be in poor to good condition at the time of the inspection.

The pipe insulation and associated fitting insulation were in poor condition at the time of the inspection. Primarily, this material was found in the basement of Section A, but a small piece was located on the first floor in space ID# 1-17. Additional insulation may be present in the walls or floors of the structure that was not accessed during the survey. The insulation was not sampled as part of this inspection, because it was previously sampled and found to be asbestos containing. Asbestos containing felt paper was found under the wood floor throughout the second floor of Section B. This material was not found in the stairwell or in the elevator area. The 9" x 9" dark brown & light brown checkered pattern floor tiles found in Section G are situated on black mastic which is in turn on a layer of wood. Under this layer of wood is an additional layer of the same floor tile and non-asbestos containing felt paper under that.

If, in the event that suspect materials are identified during demolition, and these materials were not recognized in the survey, additional samples should be collected and analyzed for asbestos content.

SECTION IV - Recommendations

Introduction:

Asbestos-containing materials (ACM) are divided into three (3) categories by the Environmental Protection Agency (EPA) under the Asbestos Hazard Emergency Response Act (AHERA). Although this legislation only pertains to primary and secondary schools, it is widely referenced when organizing a management plan for the maintenance of ACM in buildings. The three categories of ACM used in buildings are as follows:

Thermal System Insulation

As the name suggests, these materials are limited to thermal applications. Examples of these materials include pipe insulation, pipe fitting insulation, boiler or furnace insulation and various gasket materials.

SECTION IV - Recommendations (Continued)

Surfacing Materials

Surfacing materials refers to those materials, which are either sprayed or troweled onto a surface. Examples of surfacing materials include wall or ceiling plaster and fireproofing insulation.

Miscellaneous

All asbestos-containing materials found in buildings, which do not fall into the categories above, are considered to be miscellaneous materials. These materials include, but are not limited to, floor covering, adhesives, ceiling tiles and certain types of paneling (i.e. transite or galbestos panels). In addition, ACM can also be divided into two other classifications based on the likelihood of fiber release into the surrounding atmosphere (Friable vs. Non-Friable).

Friable Materials:

The materials that pose the greatest risk of airborne fiber release are friable materials. Friable materials are those materials, which can be crushed or pulverized, when dry, by hand pressure. These materials include, but are not limited to, pipe and pipe fitting insulation, boiler and hot water insulation, sprayed-on insulation (such as fireproofing) and troweled-on materials (such as decorative ceiling plaster). Particular attention should be paid to those materials that have been identified as in fair or poor condition. Since these materials are most likely to generate fiber release, and therefore pose the greatest risk of worker contamination, it is highly recommended that remedial action be implemented.

Non-friable Materials:

Non-friable materials are those materials that do not readily release fibers into the atmosphere since the fibers are locked within the matrix of the material. Examples of non-friable materials include floor tiles, linoleum, and adhesive-like materials such as mastics and roofing materials. Although these materials pose less of a risk to worker safety, they should still be taken seriously and properly maintained. It is important to realize that any ACM, when improperly or carelessly treated, poses a potential health risk.

SECTION IV – Recommendations (Continued)

Typical Remedial Measures:

Listed below are the four (4) most common remedial actions generally available to prevent or limit the release of asbestos fibers from ACM.

- 1) Implementation of an Operations & Maintenance (O&M) program: Under this response action, a set of standard operating procedures is developed for use by in-house maintenance personnel. These procedures are developed to assist designated personnel in the clean-up of fibers previously released and to limit the potential for future asbestos exposure by instituting preventative measures (i.e. personnel training, material repairs, special clean-up procedures, etc.).
- 2) Encapsulation: Utilization of this remedial action is intended to limit potential fiber release by chemical means. This is accomplished by creating an impermeable barrier between the material and the environment with a bridging encapsulant, or by using a penetrating encapsulant which binds the material and its fibers together in a hard matrix.
- 3) Enclosure: Enclosure of asbestos consists of constructing a permanent, physical, airtight impermeable barrier between the ACM and the environment. This is accomplished using material such as cement block, gypsum board, tongue and groove or spline jointed plywood, etc.
- 4) Removal: Removal of asbestos is the process by which ACM is stripped from its underlying substrate. Removal must be completed in a controlled manner to prevent building contamination. When completed properly, removal of ACM offers a permanent solution to the ACM problem by eliminating the material. However, removal can be very costly and time consuming. When done improperly, removal can result in significant contamination of a building or area and dramatically increase the potential for building occupants exposure to airborne asbestos fibers.

Determining an appropriate remedial action is typically based on a hazard assessment which is prepared for ACM identified as a result of a completed building survey. These hazard assessments are generally based on several factors including the following:

- Whether or not the material is friable
- The condition of the material (e.g. poor, fair, good)
- The potential for disturbance of the material
- Activity in the area of the material (e.g. manufacturing processes, air current, etc.)
- Whether or not the area where the material is located is occupied

SECTION IV - Recommendations (Continued)

In the present case, because the subject property is scheduled for demolition, acceptable remedial response actions are limited to removal, unless a site specific variance is obtained from the New York State Department of Labor. Section 56-1.9(e) of 12 NYCRR Part 56 requires that in the event a building to be demolished contains asbestos or asbestos material, no bids shall be advertised nor contracts awarded nor demolition work commenced by any owner or agent prior to completion of an asbestos remediation performed by a licensed asbestos contractor.

Section 56-1.9(d) requires that the information derived from the building survey shall be immediately transmitted to the commissioner through the Department's Division of Safety and Health, Asbestos Control Bureau, and to the local government entity charged with issuing a permit for such demolition under applicable state or local laws, or if no permit is required, to the town or city clerk where the building is located.

A copy of the survey report should be forwarded to the commissioner at the following address:

Commissioner

State of New York

Department of Labor

Division of Safety and Health

450 South Salina Street

Syracuse, New York 13202-2402

Attn: Mr. Daniel Coyle Sr. Industrial Hygienist

Phone #: (315) 479-3215

It will be necessary to retain a NYSDOL Licensed Asbestos Abatement Contractor to perform the remedial activities in accordance with applicable local, state and federal regulations.

Any questions regarding the information contained in this report should be directed to Mr. Stephen J. Chalone at (315) 455-2714.

Sincerely,

ENVIROLOGIC OF NEW YORK, INC.

Stephen J. Chalone

Technical Services Manager

attachments

Appendix A Laboratory Analysis Reports & Sample Data Sheets



Asbestos Bulk Sampling Analysis Report Analyzed in accordance with N.Y. State ELAP 198.1 & 198.4 Methods NYSDOH ELAP #11555

Client: S & W Redevelopment, 430 East Genesee St.Ste 401, Syracuse, NY 13202

Project Location: Former Salvation Army

'roject Number: EL03B-47 Client Contact: Don Sorbello Phone Number: 315-422-4949 Report Number: 70 Date Sampled: 4-28-03 Date Received: 4-28-5-1-03 Date Analyzed: 4-30-5-1-03 Date Reported: 5-2-03

Jummary: On April 28, 2003, our representative, David Wells, collected the following samples in accordance with all applicable state and federal regulations.

lample	Sample	Asbestos	Percent	Total	Organic/	Percent	Inorganic/	Percent	Color	Uniformity	Lab
ID	Location	Type	Asbestos	Asbestos	Fibrous		Non-Fibrous			Friable/Non	ld
	Room 2-1									Uniform	378
1	Red	Chrysotile	14.29%	14.29%	Organic	28.57%	Inorganic	47.14%	Red		PLM
	9x9 Floor tile				Material		Material		Ì	NOB	ONLY
	Room 2-1									Uniform	379
2	Green	Chrysotile	12.50%	12.50%	Organic	25.00%	Inorganic	62.50%	Green		PLM
	9x9 Floor tile				Material		Material			NOB	ONLY
	Room 2-1									Uniform	380
3	Black Felt Paper	Chrysotile	10.61%	10.61%	Organic	57.58%	Inorganic	31.81%	Black		PLM
	Mastic under 9x9 tile				Material		Material			NOB	ONLY
	Room 2-1									Uniform	
4A	Wall Plaster	None	None	None	Fibrous	None	Non-Fibrous	100.00%	White		381A
	Skim Coat	Detected	Detected	Detected	Material	Detected	Material		ļ	Friable	
	Room 2-1				***************************************					Uniform	
5 A	Wall Plaster	None	None	None	Fibrous	None	Non-Fibrous	100.00%	Brown	ĺ	382A
	Brown Coat	Detected	Detected	Detected	Material	Detected	Material			Friable	
	Room 2-1									Uniform	
6A	Ceiling Plaster	None	None	None	Fibrous	None	Non-Fibrous	100.00%	White		383A
3	Skim Coat	Detected .	Detected	Detected	Material	Detected	Material			Friable	
	Room 2-7									Uniform	
, 7A	Ceiling Plaster	None	None	None	Fibrous	None	Non-Fibrous	100.00%	Brown		384A
	Brown Coat	Detected	Detected	Detected	Material	Detected	Material			Friable	
	Room 2-1									Uniform	385
8	Black	Chrysotile	6.74%	6.74%	Organic	30.23%	Inorganic	63.03%	Black		PLM
	Floor Tile Border				Material		Material			NOB	ONLY
	Room 2-7									Uniform	386
9	Brown Mastic Behind	Chrysotile	Trace	Trace	Organic	50.00%	Inorganic	50.00%	Brown		PLM &
	Black Ceramic Tile on Wall				Material		Material			NOB	TEM
	Room 2-13									Uniform	
10	Textured Paint	Chrysotile	5.00%	5.00%	Fibrous	None	Non-Fibrous	95.00%	White	Wavy	387
	on Ceiling				Material	Detected	Material			Friable	
.	Room 2-10									Uniform	
11	Sheetrock	None	None	None	Fibrous	None	Non-Fibrous	100.00%	White		388
	Wall '	Detected	Detected	Detected	Material	Detected	Material			Friable	

Told and italic font are used to denote asbestos quantities of over 1.00%.

PLM = Polarized Light Microscopy

TEM = Transmission Electron Microscopy

NOB = Non-friable Organically Bound Material

Trace = Less than 1.00%

NA = Not Applicable

EM analysis was performed by ELAP # 11506.

Sample contains a paper backing that is 100% cellulose.

^{***} Sample contains a layer of paint.

Envirologic of New York, Inc. Asbestos Bulk Sample Analysis Report NYS DOH ELAP #11555

Client: S & W Redevelopment Project Location: Former Salvation Army

Project #: EL03B-47

Report # 70

Sample	Sample	Asbestos	Percent	Total	Organic/	Percent	- Inorganic <i>i</i>	Percent	Color	Uniformity	Lab
ID.	Location	Type	Asbestos	Asbestos	Fibrous		Non-Fibrous			Friable/Non	ID.
	Room 1-1									Uniform -	389
12		Chrysotile	Trace	Trace	Organic	22.22%	Inorganic	73.78%	Brown		PLM &
	12x12 Floor Tile				Material		Material			NOB	TEM
	Room 1-1									Uniform	390
13		Chrysotile	35.00%	35.00%	Organic	37.50%	Inorganic	27.50%	Tan		PLM &
	12x12 Floor Tile				Material		Material			NOB	TEM
	Room 1-1				-					Uniform	391
14	Mastic	Chrysotile	Trace	Trace	Organic	84.85%	Inorganic	15.15%	Black		PLM &
	Under 12x12 Tile				Material		Material			NOB	TEM
	Room 1-1				-					Uniform	
15	2x4 Ceiling Tile	None	None	None	Cellulose	55.00%	Non-Fibrous	None	White	St/Ribbon	392
	Fissured	Detected	Detected	Detected	Fiberglass	45.00%	Material	Detected		Friable	
	Room 1-3									Uniform	
16	2x4 Ceiling Tile	None	None	None	Cellulose	25.00%	Non-Fibrous	None	White	St/Ribbon	393
	Omni	Detected	Detected	Detected	Fiberglass	75.00%	Material	Detected		Friable	
	Room 1-12									Uniform	
17	2x2 Ceiling Tile	None	None	None	Cellulose	55.00%	Non-Fibrous	None	White	St/Ribbon	394
	Fissured	Detected	Detected	Detected	Fiberglass	45.00%	Material	Detected		Friable	<u> </u>
	Room 1–6									Uniform	1
4B	Wall Plaster	None	None	None	Fibrous	None	Non-Fibrous	100.00%	White		381B
	Skim Coat	Detected	Detected	Detected	Material	Detected	Material			Friable	
	Room 1-6								_	Uniform	
5B	Wall Plaster	None	None	None	Fibrous	None	Non-Fibrous	100.00%	Brown		382B
	Brown Coat	Detected	Detected	Detected	Material	Detected	Material			Friable	
	Room 1-11									Uniform	
18	2x2 Ceiling Tile	None	None	None	Cellulose	25.00%	Non-Fibrous	None	White	St/Ribbon	395
	Smooth	Detected	Detected	Detected	Fiberglass	75.00%	Material	Detected		Friable	
	Room 1-17								Red/	Uniform	396
19		None	None	None	Organic	68.97%	Inorganic	30.03%	Black		PLM &
	Linoleum Over Mesh	Detected	Detected	Detected	Material		Material	ļ	ļ	NOB	TEM
	Room 1-18								_	Uniform	397
20		Chrysotile	19.00%	19.00%	Organic	24.00%	Inorganic	57.00%	Brown		PLM
	9x9 Floor Tile				Material		Material	ļ		NOB Uniform	ONLY 398
	Room 1-18							00 440/	Butter-	Unitorm	
21		Chrysotile	7.57%	7.57%	Organic	24.32%	Inorganic	68.11%	scotch	NOB	PLM
	9x9 Floor Tile				Material		Material	 	 	Uniform	399
	Room 1-18		4.0004	4.000/		72.000/		26.40%	Black	Omom	PLM
22	Black Mastic	Chrysotile	1.60%	1.60%	Organic Material	72.00%	Inorganic Material	20.4076	DIACK	NOB	ONLY
	Under 9x9 Tile Room 2-12				Material		Material	 	Brown	Uniform	400
23	700m 2-12	Chrysotile	10.00%	10.00%	Organic	40.00%	Inorganic	50.00%	& Tan		PLM
23		Omysome	10.0078	70.0070	_	10.0070				NOB	ONLY
	Checkered Linoleum				Material		Material		 	Uniform	UNLI
	Room 2-12		Mana	Nama	Callular -	Troos	Non-Fibrous	100.00%	White	Ribbon	381C
4C	Wall Plaster	None	None	None	Cellulose	Trace	ŀ	100.00%	AAIIIG	I	3010
	Skim Coat	Detected	Detected	Detected			Material	<u> </u>	ļ	Friable Unitorm	
	Room 2-12	Name	Nana	None	Fibrous	None	Non-Fibrous	100.00%	Brown	J.moini	382C
5C	Wall Plaster	None	None	None			1	100.0076	DIOWIL	Friable	1 3020
	Brown Coat	Detected	Detected	Detected	Material	Detected	Material	l	<u> </u>	Hable	



Asbestos Bulk Sampling Analysis Report Analyzed in accordance with N.Y. State ELAP 198.1 & 198.4 Methods NYSDOH ELAP #11555

Client: S & W Redevelopment, 430 East Genesee St.Ste 401, Syracuse, NY 13202

Project Location: Former Salvation Army

Project Number: EL03B-47
Client Contact: Don Sorbello
Phone Number: 315-422-4949

Report Number: 71 Date Sampled: 4-29-03 Date Received: 4-29-5-1-03 Date Analyzed: 4-30-5-1-03 Date Reported: 5-2-03

Summary: On April 29, 2003, our representative, David Wells, collected the following samples in accordance with all applicable state and federal regulations.

Sample	Sample	Asbestos	Percent	Total	Organic/	Percent	Inorganic/	Percent	Color	Uniformity	Lab
j iD	Location	Type	Asbestos	Asbestos	Fibrous		Non-Fibrous			Friable/Non	ld
47	South Section Field-Under Rubber Roof	Chrysotile	4.46%	3.46%	Organic	82.14%	Inorganic	13.40%	Black	Uniform	424 PLM
	Top Layer Built Up South Section		ļ		Material		Material		ļ	NOB	ONLY
48	Roof Field-Under Rubber Roof	None	None	None	Cellulose	05.000/	Non Elbanos	5 000/	 	Uniform	425
40	2nd Layer - Insulation	Detected	Detected	Detected	Cellulose	95.00%	Non-Fibrous	5.00%	Brown	Ribbon	
	South Section	Detected	Deterten	Detected		-	Material	ļ	-	Friable Uniform	426
49	Field-Under Rubber Roof	Chrysotile	3.20%	3.20%	Organic	77.42%	Inorganic	19.38%	Black	Omiomi	920 PLM &
10	3rd Layer Built-up	omysome	3.2070	J.2076	Material	11.42/0	Material	19.30/0	DIACK	NOB	TEM
	South Section			<u> </u>	mateman	 	Wateria		-	Uniform	427
50	Roof Field-Under Rubber Roof	None	None	None	Cellulose	100.00%	Non-Fibrous	100.00%	Brown	Ribbon	127
	Bottom Layer - Paper Ins.	Detected	Detected	Detected	00,1000		Material	100.00.00	Diomin	Friable	
	South Section								 	Uniform	428
51	oof Field-Under Rubber Roo	Chrysotile	10.24%	10.24%	Organic	63.41%	Inorganic	26.35%	Black		PLM
	Roof Flashing				Material		Material			NOB	ONLY
_	Warehouse Roof - South									Uniform	429
52	Built-up	None	None	None	Organic	87.50%	Inorganic	12.50%	Black		PLM'&
	Top Layer Built Up	Detected	Detected	Detected	Material		Material			NOB	TEM
	Warehouse roof - South									Uniform	430
53	Bottom Layer	Chrysotile	Trace	Trace	Organic	72.22%	Inorganic	27.78%	Black		PLM &
<u> </u>	Felt Tape				Material		Material			NOB	TEM
54	Warehouse Roof - South	Ch	т	-		05.000/				Uniform	431
54	Roof Flashing	Chrysotile	Trace	Trace	Organic	65.22%	Inorganic	34.78%	Black	Non	PLM &
. —	Center Roof				Material		Material			NOB	TEM
55	Top Layer	Chrysofile	Trace	Trace	Organic	90.48%	Inorganic	9.52%	Black	Uniform	432
	Rolled Roofing	Onysourc	11400	Trace	Material	30.4070	Material	9.5276	DIACK	NOB	PLM & TEM
	Center Roof				Waterial		Material	····		Uniform	433
56	Bottom Layer	None	None	None	Cellulose	100.00%	Non-Fibrous	None	Brown	Ribbon	433
	Insulation	Detected	Detected	Detected	001141000	100.00 /0	Material	Detected	Diomi	Friable	
	Center Roof		—— -					_ 5.00.00		Uniform	434
57	Roof Flashing	Chrysotile	7.00%	7.00%	Organic Material	76.67%	Inorganic Material	16.33%	Black	NOB	PLM ONLY

Bold and italic font are used to denote asbestos quantities of over 1.00%.

EM analysis was performed by ELAP # 11480.

PLM = Polarized Light Microscopy

TEM = Transmission Electron Microscopy

NOB = Non-friable Organically Bound Material

Trace = Less than 1.00%

NA = Not Applicable

Sample contains a paper backing that is 100% cellulose.

^{***} Sample contains a layer of paint.

Envirologic of New York, Inc. Asbestos Bulk Sample Analysis Report NYS DOH ELAP #11555

Client: S & W Redevelopment

Project Location: Former Salvation Army

Project #: EL03B-47 Report # 71

Sample	Sample	Asbestos	Percent	Total	Organic/	Percent	Inorganic/	Percent	Color	Uniformity	Lab
1D	Location	Type	Asbestos	Asbestos	Fibrous		Non-Fibrous			Friable/Non	- ID
	Warehouse Roof									Uniform	435
58	Northeast	Chrysotile	30.00%	30.00%	Fibrous	None	Non-Fibrous	70.00%	Gray	Wavy	
.	Transite - Attic Fan Vent				Material	Detected	Material			Friable	
	Loading Dock Roof	I								Uniform	436
59	Top Layer	Chrysotile	1.38%	1.38%	Organic	58.62%	Inorganic	40.00%	Black		PLM
	Rolled Roofing		1		Material		Material			NOB	ONLY
	Loading Dock Roof									Uniform	437
60	Bottom Layer	None	None	None	Cellulose	100.00%	Non-Fibrous	None	Brown	Ribbon	
	Insulation	Detected	Detected	Detected			Material	Detected		Friable	
	NW office Section									Uniform	438
61	Courtyard Roof	Chrysotile	1.28%	1.28%	Organic	76.92%	Inorganic	21.80%	Black		PLM
	Top Layer-Rolled Roof				Material		Material			NOB	ONLY
	NW office Section									Uniform	439
62	Bottom Layer	Chrysotile	1.03%	1.03%	Organic	93.10%	Inorganic	5.87%	Black		PLM
	Felt paper				Material		Material			NOB	ONLY
	Breezeway									Uniform	440
63	Asphalt Shingle Siding	None	None	None	Organic	50.00%	Inorganic	50.00%	Gray		PLM &
		Detected	Detected	Detected	Material		Material			NOB	TEM
	Breezeway									Uniform	441
64	Felt Paper Under	None	None	None	Organic	95.00%	Inorganic	5.00%	Black		PLM
	Shingle Siding	Detected	Detected	Detected	Material		Material			NOB	ONLY
	Breezeway									Uniform	442
65	Built-up Roof	None	None	None	Organic	100.00%	Inorganic	None	Black		PLM
	and Insulation	Detected	Detected	Detected	Material		Material	Detected		NOB	ONLY
	Breezeway									Uniform	443

Organic

Material

58.33%

Inorganic

Material

Bold and italic font are used to denote asbestos quantities of over 1.00%.

Chrysotile

7.50%

7.50%

* TEM analysis was performed by ELAP # 11480.

Roof Flashing

- * Sample contains a paper backing that is 100% cellulose.
- ** Sample contains a layer of paint.

66

PLM = Polarized Light Microscopy

Black

PLM

ONLY

TEM = Transmission Electron Microscopy

NOB = Non-friable Organically Bound Material

NOB

Trace = Less than 1.00%

NA = Not Applicable

34.17%

Approved By: Valerie Lare

Fechnical Director - Envirologic of New York, Inc.

Lisclaimer; Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials (NOBs). Quantitative transmission electron microscopy is currently the only method that can be

used to determine if materials can be considered or treated as non-asbestos containing. Thus, it is recommended that NOB samples found to be negative by potazized light microscopy are analyzed using transmission electron microscopy for definite results, ne analytical results presented in this report and the laboratory procedures used are considered to be accurate and reliable for the samples analyzed. This report may not be duplicated without the approval of Envirologic of New York, Inc., and then

ity in full. Envirologic's liability is limited to the cost of the analysis.



PROJECT #: ELOŽB・イ子 LAB REPORT #: フCゝ

5858 East Molloy Road, Suite 146 • Syracuse, New York 13211-2013 • Telephone (315) 455-2714 • Fax (315) 455-3022

Project Name/City/Project Info:	Client Name: S+W (Redove) ODHONF	Contact:
Selvetion Armu	Client phone #: Client fax #:	
Date: 4-28-03	Hygienist: D.WQIS / S.Chalone	

							г		-			-	- 1	<u>*</u>
Quantity	+	+	والمستحدد والمستحد والمستحد والمستحدد والمستحد		(î	1	+	-					
Sample Type	NOB) f.	//	Ţ.	1,	11	1,1	NUB	n	X	11	NGB	/1	7.
Sample Description			inder 9x9 HIP	7		<i>t</i>		Prider	MARKE BOLLING BIECK CORONIC TIB ON WALL	Textured Paint on Calling	Softock - (Wall)			X12 +116
Sample Location	RM 2-1 ROJ 9X9 FI 4110	014 17 px6 (200)		PUZZ LARGINISTEY SUN COST	V	RN7-1 Colling Plactor Still Gat	ŧ	RM7-1 BLOW Floor +10 Gens Bridge	1	DM 7-13 Texture		AM 1-1 Brown 17x12 F1 +10	Tan (2x17 F)	2
Lab ID	378	7.99	357	2518	367 17	283A	34-(4	345	386	367	368	6 P2	250	341
Sample Number		7	3	44	5A	(24	7/6	>	6	01		1.7	13	工工

Sample Type: F = Friable NF = Non-Friable NOB = Non-Friable Organically Bound

Chain of Custody	Prlut Name	Sign Name	Date	Тіте
Sampled By:	SIOIR C	1 San August	4-28-03	345pm
Relinquished By:	1) Nells	buchan	4-28-03	345pm
Received at Lab By:	1/2 (hart	23 T 737	U-78-C	Llow
Turnaround Time:	RUSH (Specify):	24 Hour 48 Hour 72 Hour Other:	72 Hour Other;	



PROJECT #: ELOZB - 47

LAB REPORT #:

5858 East Molloy Road, Suite 146 • Syracuse, New York 13211-2013 • Telephone (315) 455-2714 • Fax (315) 455-3022

Quantity							-	いろうない	and the second	7	-	+		
Sample Type	L	-	سسلاست	·	. 7	1)	-	NOB	//		11	NOB	٤	11
Sample Description	Fissing	IUMU	- Action (144 Poll of the	HILE - FISSURED	150	to	H10-SMOTH	UM OVEY MESH	9/	F1 +112	35th who 1x9 416	Tan checkeved Linoleum	IM Cost	Phastor Brown gat
Sample Location	2X4 WXH COLING HO HSSUNCED	RM1-3 2X4 White COTING HIR - OMM	Let 9-X-1	0x2 White Calling Alle - FISSUred	May Plastor SICM Cast	too more	2x2 WINT CALING HIG - SUBT	Red 1840k linology over Mesh	9×9 Brown FI 7118	9x9 Buttersioted FIHIR	BISCK MASTIC UM	Brown + Tan checker	Wall PESTON SKIM GOST	NATIONAL DISTANCE
	RM 1-1 2	RM1-30	Art -1-0	S(-) na	Ru 1-6	RU 1-(0	RM 1-11	FI-1 ZU	RM 1-18		1.1	RM 2-17	5 3	1/ //
Lab ID	392	343		344	38103	3 8203	395	395	547	398	399	201	3515	383
Sample Number	5	2	1	Ĺ	u B	1 V	81	2	70	2	77	73	3/10	50

F = Friable NF = Non-Friable NOB = Non-Friable Organically Bound

Chain of Custody	Print Name	Sign Name	Date	Тіте
Sampled By:	SIMY	Burthy fund	4-28-03	345pu
Relinquished By:		Burghdus	4-28-03	BUSPLA
Received at Lab By:	と、3十 / 37	X30733	1-4 Fed	You
Turnaround Time:	RUSH (Specify):	24 Hour 48 Hour	48 Hour 72 Hour Other:	



PROJECT #: ELOZB - 47 LAB REPORT #: フィリ

5858 East Molloy Road, Suite 146 • Syracuse, New York 13211-2013 • Telephone (315) 455-2714 • Fax (315) 455-3022

Project Name/City/Project Info:	Client Name: S+ W Redovalophent	Contact:
Salvation Armu	Client phone #:	Client fax #:
Date: 4-28-63	Hygienist: S. Chalon & / D.Molls	

I sh In		Ü	Sample Location	Samula Description	Sample Type	Ouantity
	Sample Location	ampie Locauoi		Sample Description	adfr admin	· · · · · · · ·
3690 1 pm 2-3 (Calling	7-3	(alling	PISSEN SKIM COST	JA Cost	Ш	
344B " " BHSC			PISSTON	Plaster Aroun Gat	1	
401 RM 2-5. Blank		Glacif	FOIT PAPE	Folt Paper under wood Floor	NOB	+
40) = 1 REWIN	11 11 RECEIN	RICAIN	Polly	SAVIANS NO MUDICALITY	11	100
40) RM 1-2 White		NAR	12×17 P1 +16	7116		12 52 52 GL
40018 " " YOUN	1 1 1 RISCH	RISCK	NO OHSEN	M2840 CH LOX 12X12 HIB) [
20 70 BY		OK Bro	WN 9x9 FT/ #10	17/6	11	+
BISCK	BISCK	1 .	M28thC U	M2Stic under 9x9 tile	//	+
40) PMI-S WATE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	WMA	2×4 (milling 4/10	na 11/e	7	
IN TRUY	M resy	in rest	inden Glager		14	
26 Dr Bray	Dr Gra	Dr Bran	N QX9 F	on 9x9 FI HIC WIRED + WINTE STREETCS	NOB	+
U(0) 1 Brown	I A Brown	1+ Brow	TO DXD T	Arawa 9x9 Fl 410 WIRELY VOllow streets	11	+
8	11 11 Black	Blacke	Flooring.	Strips on perimeter	11	+
11 1 1 812CK	11 11 Aleck	BIECK	Mastic IM	ALECK MASTIC INDER 9X9 HIE	1.1	+

Sample Type: F = Friable NF = Non-Friable NOB = Non-Friable Organically Bound

Chain of Custody	Print Name	Sign Name	Date	Time
Sampled By:	SIM U	LAS DE CAN	4-28-03	3 US DM
Relinquished By:	3/0V.)	X TO THE TOTAL OF THE PARTY OF	4-28-03	345pm
Received at Lab By:	T ガー プン	20th 757	アノスト	404
Turnaround Time:	RUSH (Snecify):	24 Hour 48 Hour	48 Hour 72 Hour Other:	



PROJECT#, ELOZB - 47

LAB REPORT #:

5858 East Molloy Road, Suite 146 • Syracuse, New York 13211-2013 • Telephone (315) 455-2714 • Fax (315) 455-3022

Project Name/City/Project Info:	Client Name: (+1) 0x 3 m; 10/2011 x	+1	Contact:
Salvation Army		Client fax #;	
Date: 4-28-03	Hygienist: S Chalone D.Wells		

		•	* -					<u> </u>	<u> </u>	•		 	
Quantity	Charles Day			+			-						
Sample Type	NOB	. 1/	1/	. 11	٧.	11	11	NoB	11	' ' ' '	l)	•	
Sample Description	er word Floor (under HIP)		12×12 FL TILE RIDGE MASHI WAS 102/24/0	Brown Mastic Picks on 12x12 Colling Hile	THE WI RISCK Sparks	MWHE ZXH CRIINS AME WITHSSUMS	7201	4/6	91 7 HB	4.(e	28th Under 12x12th		
Sample Location	RM 1-26 Black Felt Daner under Mond Floor (under HIP)	M 1-28 For 12x12 FI TIIO	1 Town to 12 12 11	Par 1-33 Brown Mestre Pucke		24 1-36 White 2x4 CRILING A	" " White Colling Shed	PM 1-31 Brown 12×12 FI 410	اد ا	CM 1-28 OLTON (2XIC FI HILE	" " Brown Washe und		
Lab ID	413	١ اربر	511	7)7	() ا	11/1	r(19	orh.	(A)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	42		
Sample Number	360	37	38	39	017	Ţ	7.17	43	hh	45	46		

NF = Non-Friable NOB = Non-Friable Organically Bound F = FriableSample Type:

fusions to mine	Print Name	Sign Name	Date	Time
Sampled By:	DWE	1 Lingth Lang	4-28-03	34504
Relinquished By;	SIBMIG	1 pooled	4-28-03	SYSOM
Received at Lab By:	727 - 72	737	4269	rong-
Turnaround Time;		24 Hour 48 Hour	72 Hour	



PROJECT #: EL03B - 4/7

LAB REPORT #: \(\tau\)

5858 East Molloy Road, Suite 146 • Syracuse, New York 13211-2013 • Telephone (315) 455-2714 • Fax (315) 455-3022

Project Name/City/Project Info:Client Name: $S+M$ RedovelopmentContact:Contact: $SONVONON AKMU$ Client phone #:Client fax #:Date: $V-2Q-0.3$ Hygienist: $S_1ONONONONONONONONONONONONONONONONONONON$			
521 Vathorn AKMU 4-29-03. Hygienist: 5. Chalone / D. Wells	Project Name/City/Project Info:	11 Name: S+W R	Contact:
4-29-03. Hygienist: 5.	Salvation Arku	ıt phone #:	fax #;
		enist: 5.	

Lab ID Sample Location	Sample Loca	tion	Sample Description	Sample Type	Quantity
424 South Section Roof File	South Section Roof Fi	9	Under Rubber Roof) (Too lever) built-up	NOB	+
ンやカ		,	Rown 105 vistion (2nd sup	T (
7,5			(3rd/auer) Built-up	NOB	
A (6)	7		(BoHOM IZMON) OZPEN INS.	. J	
202	\ <u>\</u>		Black Plant Hashing	NOB	1
429 INJENCHOUSE RUFF SOUTH	INEXCHOUSE RICH SOUTH	-	Built-up (Top layer)	Nors	ep Piloto
430			Falt DODE (Batton leyer)	11	, and the same of
^ ^ ^	~	-	ROOF FLOSIUMG	NOB	
432 (Parter Roof-	CONTEX ROOF-	-	(Top lever) Rallyd Rockins	. //	
, C.S.			(Buttern Huser) Brown Insula from	F	
434		-	Black Ruf Flashing	NOB	+
435 Warehovserback. North	35	£25 F	GREY Transito Affic Fan Wart.	A	+
436 Loading Dark Roof	Loading, Dark Roof		(Topleyer) Rolled Roofins.	NOB	+
457	7		(Bottom Favor) Brown Insulation	ħ	,
	, , , , , , , , , , , , , , , , , , ,	The state of the s			

Sample Type: F = Friable NF = Non-Friable NOB = Non-Friable Organically Bound

Chain of Custody	Print Name	Sign Name	Date	Time
Sampled By:	D. Mells	1 gwelled 2	4-29-03	325 pm
Relinquished By:).Wells) Justoland	4-29-63	330 pm
Received at Lab By:	201/01/	2,5,7	4.09.2	H SUpa
Turnaround Time;]:	48 Hour	72 Hour Other:	



PROJECT #: EL03B - 47

LAB REPORT #:

5858 East Molloy Road, Suite 146 • Syracuse, New York 13211-2013 * Telephone (315) 455-2714 • Fax (315) 455-3022

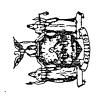
Project Name/City/Project Info:	Client Name S+W RODEVELORMENT	Contact:
Salvation Armu	t phone #:	Client fax #:
Date: 4-29-03	Hygienist: 1). Wells / 5. Chelling	

	ſ		1					 	 			
Quantity	cord-land	<u></u>	(CCALLING CANAL	Con Charge of born of	+	-					
Sample Type	NOB	11	NOB	11	Mea	NOR		-			,	
Sample Description	Rolled Roffing (Top lever)	Falt Paner PBOHEM IZYER	halt shinele siding	It paper war stynethe siding	BISCY BUILT-UP ROOF+ INSUISTION	Roof Flagues	\mathcal{C}					
Sample Location	NW OFFICE SOCTION CYTYNG ROOF		OSA LONG) DELINITION ASO	1) Slack For	ASCA ROS 11	# A COOREWS! ALSOK	MUN!					
Lab ID	J()}	439	0/1/0	/h h	ゴカ ナ	7.52			van van de service de			or the second second second second second second second second second second second second second second second
Sample Number	10)	69	63	h9	7.5	200	盐	\$ 44		The state of the s		

NOB = Non-Friable Organically Bound Sample Type: F = Friable NF = Non-Friable

Chaln of Custody	Print Name	Sign Name	Date	Time
Sampled By:	D.Wells	(Tangle Sans	4-29-03	3 05 pm
Relinquished By:	O.Wells	But the dies	4.29-03	33°ры
Received at Lab By;	7- 5- 137	ではしてつく	6,99.2	430,00.
Turnaround Time:	RUSH (Specify);	24 Houy 48 Hour	72 Hour Other;	
A communication and construct grids, who are included in the construction of the const				

Appendix B Certifications



STATE OF NEW YORK - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
License and Certificate Unit
BUILDING 12, Room 161
STATE CAMPUS
ALBANY, NY 12240

ASBESTOS HANDLING LICENSE

LICENSE NUMBER: 99-0540
DATE OF ISSUE: 6/14/02

EXPIRATION DATE: 6/30/03

Contractor: Envirologic of New York, Inc.

Address: 5858 East Molloy Road, Suite 146 Syracuse, NY 13211 Duly Authorized Representative: George E. Hanover

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material

displayed at the asbestos project worksite. The licensee verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor. This license is valid only for the contractor named above and this license or a photocopy must be prominently

SH 432 (10-00)

Richard Cucolo, Director FOR THE COMMISSIONER OF LABOR



Wadsworth Center

The Governor Nelson A. Rockefeller Empire State Plaza

P.O. Box 509

Albany, New York 12201-0509

Antonia C. Novello, M.D., M.P.H., Dr.P.H. Commissioner Dennis P. Whalen
Executive Deputy Commissioner

February 18, 2003

Dear Lead Technical Director:

Please note that although your ELAP Certificate(s) of Approval is/are scheduled to expire at 12:01 AM April 1, 2003, it/they will remain valid until June 16, 2003. This extension is being granted in advance due to the possibility that the New York State budget may not be approved by April 1, 2003. The only exceptions to this extension are laboratories who are notified in writing that their certification has been revoked for just cause.

If there are any questions, please feel free to contact me at 518-485-5570 or by email to jej02@health.state.ny.us.

Verification of your laboratory's approved ELAP status is available to you or your clients by calling the Program Office at (518) 485-5570 between 8:30 a.m. and 4:45 p.m. Monday through Friday.

Sincerely,

Joyce Reilly

Administrative Assistant

Environmental Laboratory Approval Program

NEW YORK STATE DEPARTMENT OF HEALTH WADSWORTH CENTER

Commissioner. Antonia C. Novello, M.D., M.P.H., Dr.P.H.



Expires 12:01 AM April 01, 2003 Issued July 17, 2002

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. VALERIE LARE ENVIROLOGIC OF NEW YORK INC 5858 EAST MOLLOY ROAD USA SYRACUSE NY 13211

NY Lab Id No: 11555 EPA Lab Code: NY01263

is hereby APPROVED as an Environmental Laboratory for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material

EPA 600/M4/82/020

Serial No.: 16872

Property of the New York State Department of Health. Valid only at the address shown. Must be conspicuously posted. Valid certificates have a raised seal and may be verified by calting (518) 485-5570.

-0112217 13/97)

NEW YORK STATE DEPARTMENT OF HEALTH WADSWORTH CENTER

Antonia C. Novello, M.D., M.P.H., Dr.P.H. Commissioner



Expires 12:01 AM April 01, 2003 Issued July 17, 2002

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. VALÈRIE LARE ENVIROLOGIC OF NEW YORK INC 5858 EAST MOLLOY ROAD SYRACUSE NY 13211 USA NY Lab Id No: 11555 EPA Lab Code: NY01263

is hereby APPROVED as an Environmental Laboratory for the category ENVIRONMENTAL ANALYSES AIR AND EMISSIONS All approved subcategories and/or analytes are listed below:

Miscellaneous Air

Fibers

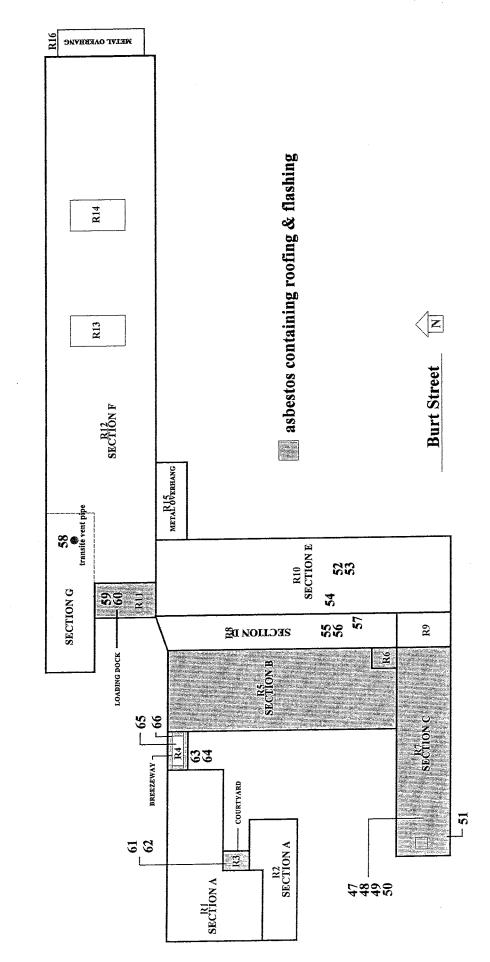
NIOSH 7400 A RULES

Serial No.: 16873

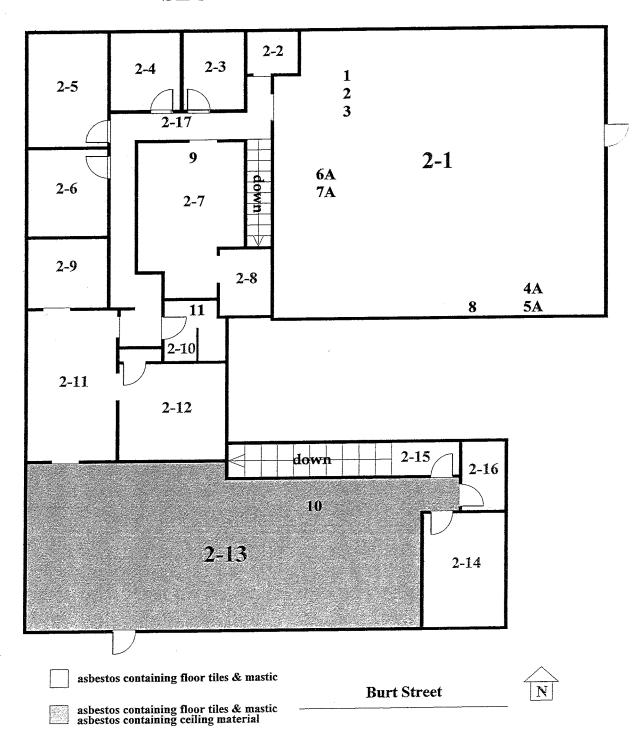
Property of the New York State Department of Health. Valid only at the address shown, Must be conspicuously posted. Valid certificates have a raised seal and may be verified by calling (518) 485-5570.

DOH-3317 (3/97)

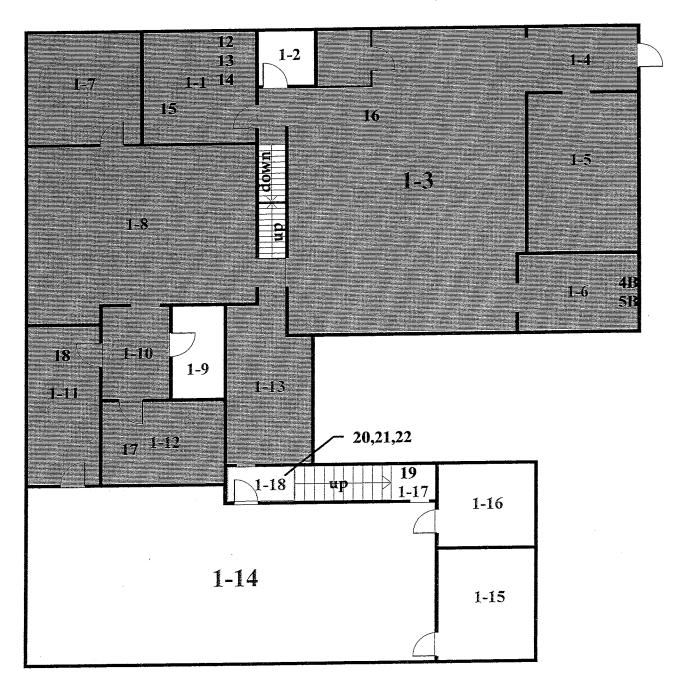
ROOF PLAN

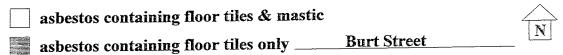


SECTION A - 2ND FLOOR

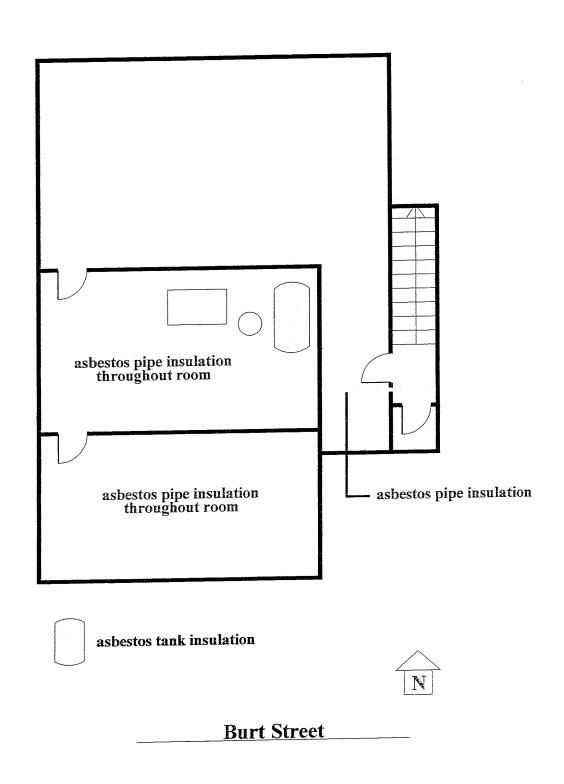


1ST FLOOR-NW OFFICES (SECTION A)

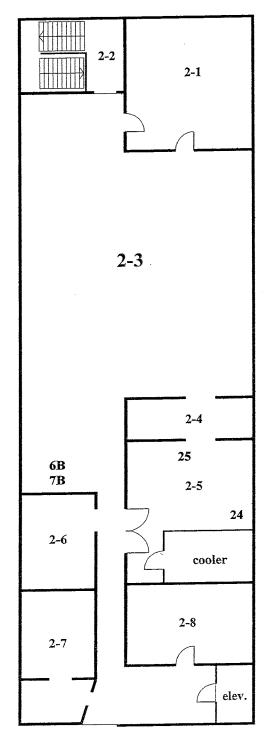




BASEMENT-NW OFFICES (SECTION A)



2ND FLOOR-CENTER SECTION (SECTION B)

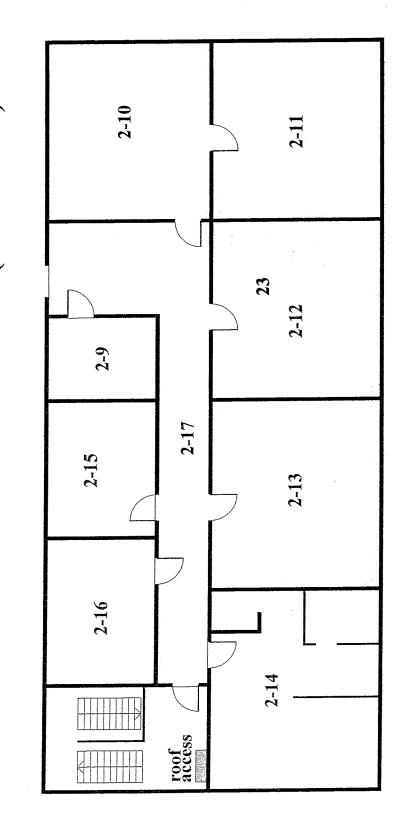


asbestos felt paper under wood floor

Burt Street



2ND FLOOR-SOUTH SECTION (SECTION C)

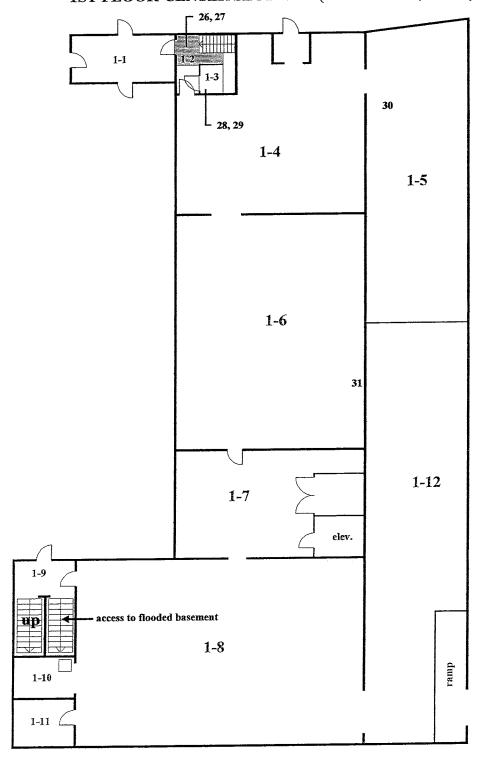


asbestos linolem



Burt Street

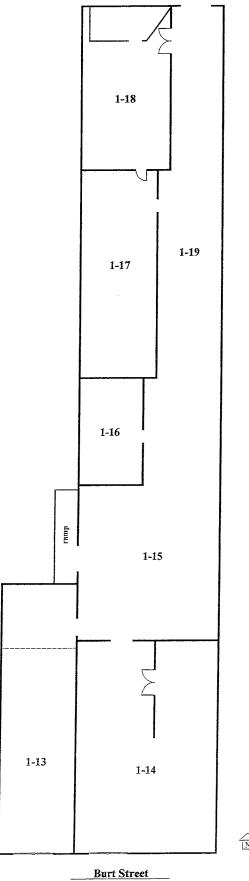
1ST FLOOR-CENTER SECTIONS (SECTIONS B, C & E)



asbestos floor tiles & mastic	
asbestos mastic (under floor tiles)	N

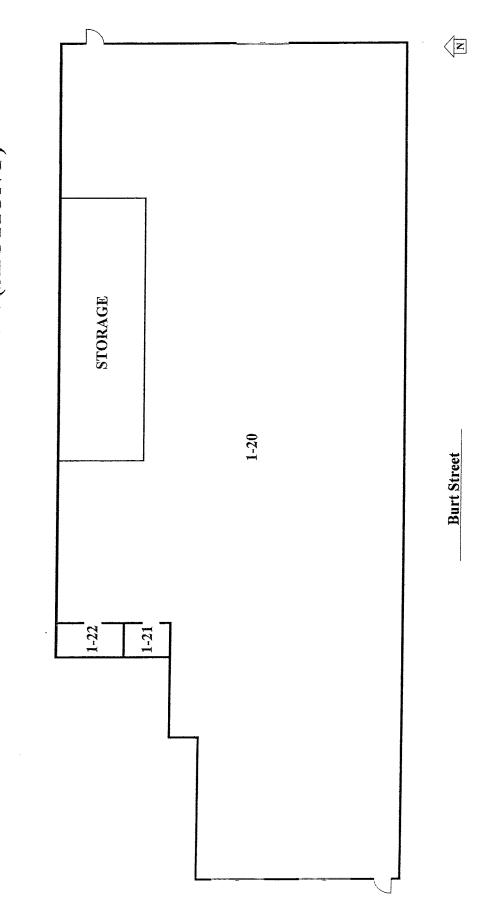
Burt Street

1ST FLOOR-SECTION E

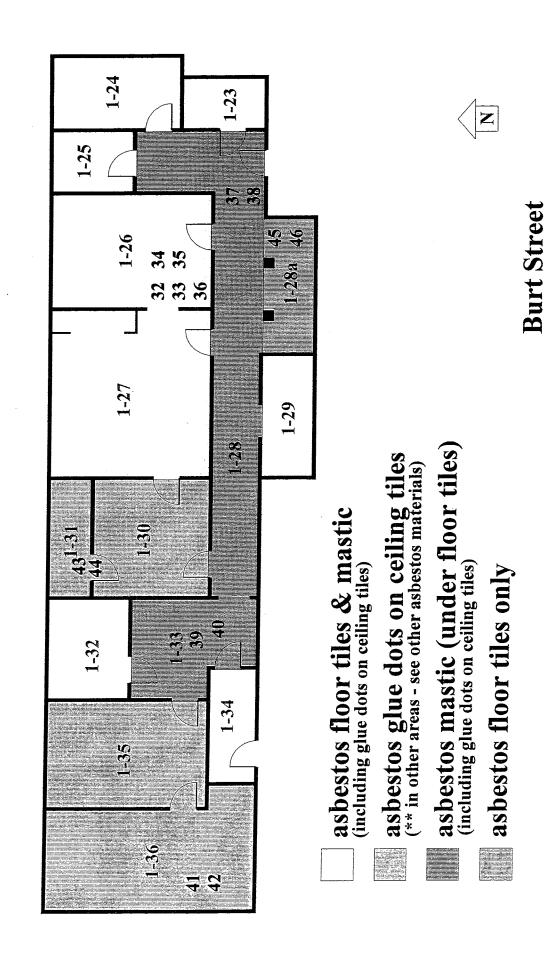


 \bigcirc

1ST FLOOR-NORTHEAST SECTION (SECTION F)



IST FLOOR-NORTH SECTION (SECTION G)



Appendix D

NYSDOL Building Demolition
Survey - Minimum Sampling Guidelines