ENVIRONMENTAL BASELINE SURVEY
ROME RESEARCH SITE

PARCEL 1
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

Prepared for:

AIR FORCE RESEARCH LABORATORY
ROME RESEARCH SITE
150 Electronic Parkway
Rome, New York 13441

January 2004

ENVIRONMENTAL BASELINE SURVEY

FOR

PARCEL 1
BUILDINGS 240, 247 AND 248
ROME RESEARCH SITE
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

Prepared For:

AIR FORCE RESEARCH LABORATORY
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150 Electronic Parkway
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JANUARY 2004

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Prepared For:

AIR FORCE RESEARCH LABORATORY
ROME RESEARCH SITE
150 Electronic Parkway
Rome, New York 13441-4516

Prepared By:

Lu Engineers
2230 Penfield Road
Penfield, New York 14526

JANUARY 2004

Project No. 13124-11

Environmental Baseline Survey
RRS Griffiss Properties
Parcel 1
Buildings 240, 247 and 248

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EXECUTIVE SUMMARY

The Air Force Research Laboratory, Rome Research Site (RRS), Civil Engineering Branch, Environmental Safety, and Occupational Health Office (ESOH) is conducting an Environmental Baseline Survey (EBS) for all RRS-owned properties located at the former Griffiss Air Force Base (GAFB). The former GAFB facility is now referred to as the Griffiss Business and Technology Park (GBTP). RRS properties located within the GBTP include a total of 15 buildings located on seven parcels of land. The location of the GBTP is indicated on Figure 1.1, Site Location Map.

The current EBS focuses entirely on Buildings 240, 247 and 248 (B-240, B-247 and B-248) and associated property. B-240, B-247 and B-248 are located entirely within RRS Parcel Number 1. The location of B-240, B-247 and B-248 is indicated on Figure 1.2, Building Location Plan. The purpose of the EBS is to obtain information about environmental conditions at the subject site to facilitate eventual property transfer or re-use. The EBS identifies potential environmental concerns relating to petroleum, hazardous waste, hazardous materials, and related issues for each of RRS' properties at the GBTP. The EBS is also intended to consolidate information for each EBS Area of Concern (AOC) identified in association with the subject property.

All EBS activities were conducted in accordance with the provisions of Air Force Instruction (AFI) 32-7066. Efforts were also made to assure compliance with the American Society for Testing and Materials (ASTM) guidance document E-1527-00, "Standard Practice for Environmental Site Assessments." The primary focus of work conducted under AFI 32-7066 is the categorization of the subject site into one of seven (7) possible category designations based on environmental conditions. Property identified as Category 1, 2, 3, or 4 is considered suitable for transfer. Property designated as Category 5, 6 or 7 requires further documentation, investigation and/or cleanup prior to release.

This EBS has included four major components. The first component consisted of a review of existing information regarding the site, including aerial photographs, environmental database information, and previous site investigations and assessments. Following this review, the site was inspected for the presence of hazardous and/or contaminated materials and wastes. This EBS includes a review of applicable environmental databases to identify potentially relevant information relating to the site itself and nearby properties with potential significance to environmental conditions on Parcel 1. Based on review of site background information and site inspection, sampling and testing were conducted to obtain quantifiable information relating to site conditions. Sampling and testing were also used as a means of characterizing wastes present on the site to facilitate corrective action, the final component of the EBS.

Work began on this EBS in January 2000. Recognized environmental conditions, designated as Areas of Concern (AOCs), were documented and investigated as necessary as part of the EBS process. Once the initial research and site inspection work was completed, a memorandum indicating the preliminary EBS findings for Parcel 1 was submitted to RRS on June 20, 2000. Phase II investigation warranted by the preliminary

EBS findings was summarized in a memorandum dated March 20, 2001. Documentation of subsequent corrective action and additional Phase II EBS work was submitted via memoranda dated February 27, 2003 and March 21, 2003, respectively. Additional corrective action work was completed in the Fall of 2003. Based on the data and findings of the EBS process, all RRS property associated with Parcel 1 can be classified as EBS Category 1, 2, 3, or 4 property.

Table ES-1 includes a brief description of specific areas of the site described in the body of this EBS and respective property categories. Categories currently assigned to property evaluated in this EBS are also identified on the Property Categories Map included as Figures ES-1 and ES-2.

Table ES-1
Property Designations

EBS AOC	Current EBS Category	Work Conducted and General Findings
AOC-B240-01, Chiller Solution Tanks	Category 4	Proper removal and disposal of hazardous and non-hazardous wastes and asbestos has been completed. Confirmatory sampling indicates no residual contamination requiring corrective action associated with this AOC.
AOC-B240-02, Basement Floor Drains and Sumps	Category 4	Proper removal and disposal of contaminated materials has been completed. Confirmatory sampling indicates no residual contamination requiring corrective action associated with this AOC.
AOC-B240-03, B-240 Elevator Shaft	Category 4	Proper removal and disposal of contaminated materials has been completed. Confirmatory sampling indicates no residual contamination requiring corrective action associated with this AOC.
AOC-B240-04, Oil Stained Areas in the Basement	Category 4	Proper removal and disposal of contaminated materials has been completed. Confirmatory sampling indicates no residual contamination requiring corrective action associated with this AOC.
AOC-B240-05, Caged Storage in Basement	Category 1	Sampling and testing did not indicate environmental concerns requiring corrective action associated with this AOC.

Table ES-1
Property Designations

EBS AOC	Current EBS Category	Work Conducted and General Findings
AOC-B240-06, Abandoned Oils and Miscellaneous Materials	Category 1	Proper removal and disposal of contaminated materials has been completed Sampling and testing did not indicate environmental concerns requiring corrective action associated with this AOC.
AOC-B240-07, Open Pits at Basement Load Centers	Category 1	No indications of environmental contamination have been identified with respect to this AOC.
AOC-B240-08, Former Building Uses	Category 3	No indications of environmental contamination requiring corrective action have been identified with respect to this AOC.
AOC-B240-09, B-240 Dry Wells	Category 4	Proper removal and disposal of contaminated materials has been completed Sampling and testing did not indicate environmental concerns requiring additional corrective action associated with this AOC.
AOC-B240-10, Locked Hatch, Southeast Corner B-240	Category 1	No indications of environmental contamination have been identified with respect to this AOC.
AOC-B240-11, Stressed Vegetation along Perimeter Fence	Category 3	Sampling and testing did not indicate environmental concerns requiring corrective action associated with this AOC.
AOC-B240-12, Building 240/247/248 Former Drum Storage Area	Category 1	No indications of environmental contamination requiring corrective action have been identified with respect to this AOC.
AOC-B247-01, Equipment Room A	Category 1	No indications of environmental contamination requiring corrective action have been identified with respect to this AOC.

Table ES-1
Property Designations

EBS AOC	Current EBS Category	Work Conducted and General Findings
AOC-B247-02, Photography Laboratory	Category 3	Sampling and testing did not indicate environmental concerns requiring corrective action associated with this AOC.
AOC-B247-03, Stained Floor Mechanical Room	Category 2	Sampling and testing did not indicate environmental concerns requiring corrective action associated with this AOC.
AOC-B248-01, Stained Floor Mechanical Room	Category 2	Sampling and testing did not indicate environmental concerns requiring corrective action associated with this AOC.
AOC-B248-02, Floor Drains and Acid Neutralization Sump	Category 4	Proper removal and disposal of contaminated materials has been completed. Confirmatory sampling indicates no residual contamination requiring corrective action associated with this AOC.
AOC-B248-03, B-248 Dry Wells	Category 1	No indications of environmental contamination have been identified with respect to this AOC.
AOC-B248-04, Abandoned Hazardous Materials	Category 4	Proper removal and disposal of hazardous materials completed by RRS IFOCV. No indications of environmental contamination requiring corrective action have been identified with respect to this AOC

Figure ES-1
Property Categories Map

1.0 PURPOSE OF THE ENVIRONMENTAL BASELINE SURVEY

This Environmental Baseline Survey (EBS) has been prepared to document the physical condition of the Rome Research Site (RRS) Parcel 1, relating to suspected past storage, use and disposal of hazardous substances, and petroleum products and their derivatives, over the property's history. Other conditions with significance to human health, environment and property value are also documented. This EBS is intended to establish a baseline for use by the Air Force Research Laboratory (AFRL) in making decisions concerning real property transactions. The EBS reflects current conditions as of the date of this report and/or sampling, testing and research findings referenced herein. The EBS can be updated or modified to reflect future environmental conditions at the facility and the status of ongoing environmental studies and programs.

An EBS is required by Department of Defense (DOD) policy prior to sale, lease, transfer, or acquisition of any property. Although primarily a management tool to support environmental decisions and related management actions, this document will also be used by RRS in meeting its obligations under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 United States Code (US), Section 9620(h)(1), as amended by the Community Environmental Response Facilitation Act (CERFA) (Public Law [P.L.] 102-426), which requires early identification of uncontaminated property to expedite lease or transfer to the public.

This EBS will be used by RRS to accomplish the following:

- Develop information sufficient to assess the health and safety risks on the property and determine actions necessary to protect human health and the environment prior to real property transactions.
- Support decisions for No Further Response Action Planned (NFRAP) documentation, if necessary, and aid in determining lease or deed restrictions.
- Document uncontaminated property and obtain regulatory concurrence as required and defined under Section 120(h)(4) of CERCLA.
- Support notice (when required) under Section 120(h)(1) of CERCLA, of the type, quantity and time frequency of any storage, release or disposal of hazardous substances, petroleum products or their derivatives on the property.
- Identify data gaps concerning environmental contamination.
- Define potential environmental liabilities associated with real property transactions.
- Aid in determining possible effects on property valuation resulting from any contamination/ concerns identified.

Based on an analysis of available data, discrete areas Parcel 1 have been classified into one of the seven categories prescribed by Air Force Instruction (AFI) 32-7066 (as amended in January 1999) which include:

Category 1 –Areas where no release or disposal of hazardous or petroleum substances has occurred (including no migration of these substances from adjacent areas).

Category 2 –Areas where only release or disposal of petroleum substances has occurred.

Category 3 –Areas where release, disposal and/or migration of hazardous substances has occurred, but at concentrations that do not require removal or remedial response.

Category 4 –Areas where release, disposal and/or migration of hazardous substances has occurred, and all removal or remedial actions have been taken.

Category 5 –Areas where release, disposal and/or migration of hazardous substances has occurred, and removal or remedial actions are underway, but all required remedial actions have not yet been taken.

Category 6 –Areas where storage, release, disposal, and/or migration of hazardous substances has occurred, but remedial actions have not yet been implemented.

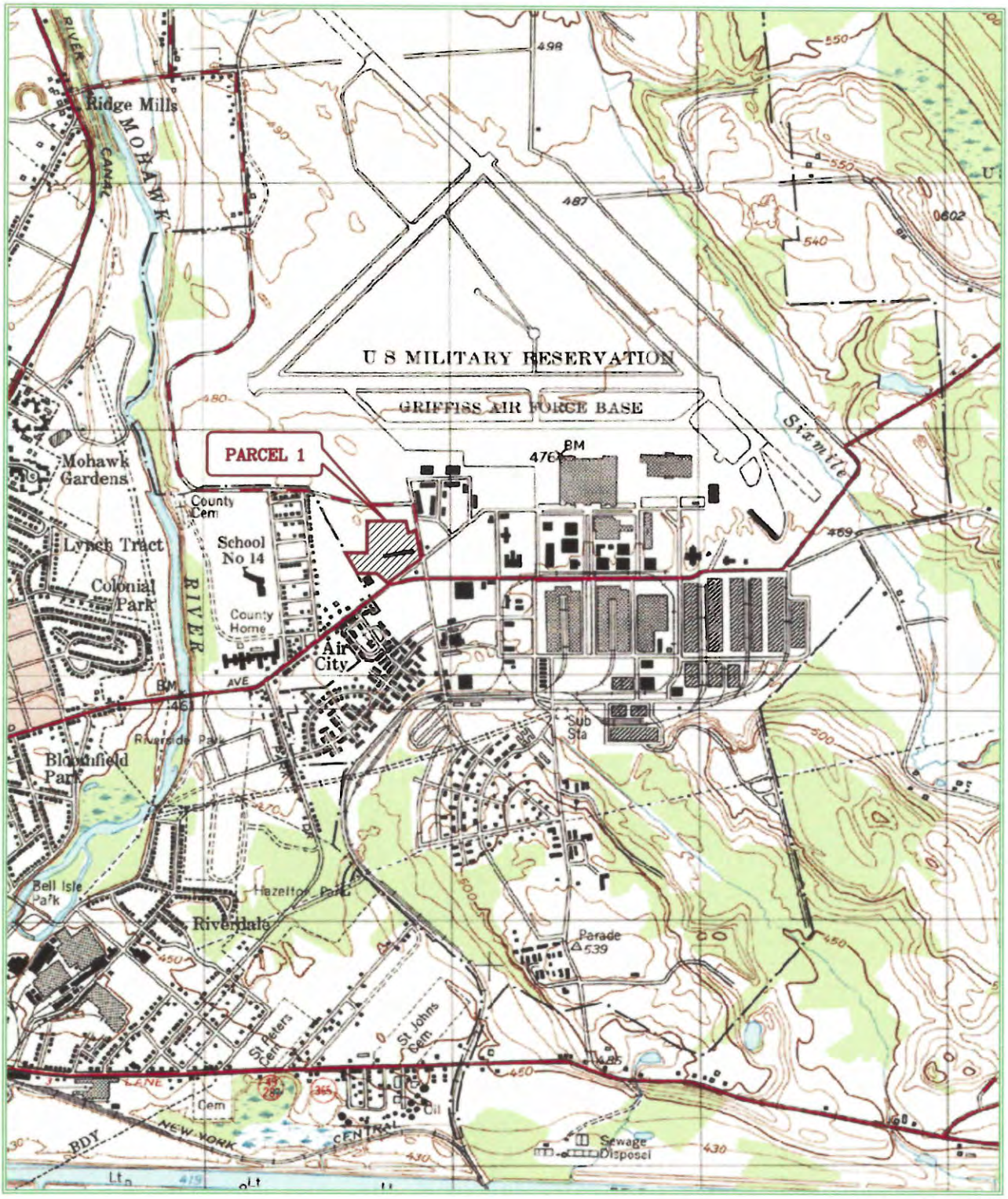
Category 7 –Areas that are not evaluated or require additional evaluation.

Property in Categories 1 through 4 is considered to be suitable for transfer by deed. Property in Categories 5 through 7 would be unsuitable for transfer by deed until all necessary actions have been taken and the property has been reclassified into one of the first four categories. Property in all seven categories is considered suitable for lease.

1.1 Boundaries of the Property and Survey Area

The location of the GBTP is indicated on the Site Location Map (Figure 1.1). B-240, B-247 and B-248 are located within Parcel 1 of RRS. The location of Parcel 1 relative to other RRS-owned properties at the GBTP is shown on Figure 1.2, Facility Plan. The limits of Parcel 1 and locations of B-240, B-247 and B-248 are indicated on the Parcel 1 Site Plan (Figure 1.3). The Building Plans, Figures 1.4 and 1.5, provide detail on the building layout as well as the location of relevant interior and exterior features.

Parcel 1 is located on the northwest quadrant of the intersection of Floyd Avenue and Hill Road, and is surrounded on all sides by developed properties. Other buildings in the immediate vicinity of B-240, B-247 and B-248 include B-245 to the northwest, B-232 to the southeast and B-259, 231 to the east. Property immediately south of Parcel 1 is presently developed as an automobile parking lot. Property to the immediate west, north and east are open fields. Representative photographs of B-240, B-247 and B-248 are provided as Appendix A. All surrounding properties are owned by the Oneida County Industrial Development Agency (OCIDA), and managed by the Griffiss Local Development Corporation (GLDC).



SCALE: 1" = 2000'

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NEW YORK
QUADRANGLE LOCATION

LU ENGINEERS
Civil and Environmental

2230 PENFIELD ROAD
PENFIELD, NEW YORK 14526
TEL: 585.377.1450
FAX: 585.377.1266

FIGURE 1.1. SITE LOCATION MAP

ROME RESEARCH SITE
PARCEL 1
ENVIRONMENTAL BASELINE SURVEY

DATE:	DECEMBER 2003
SCALE:	1:24,000
DRAWN BY:	DLS
MAP SOURCE:	NEWPORT QUADRANGLE NEW YORK – HERKIMER COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) 1982

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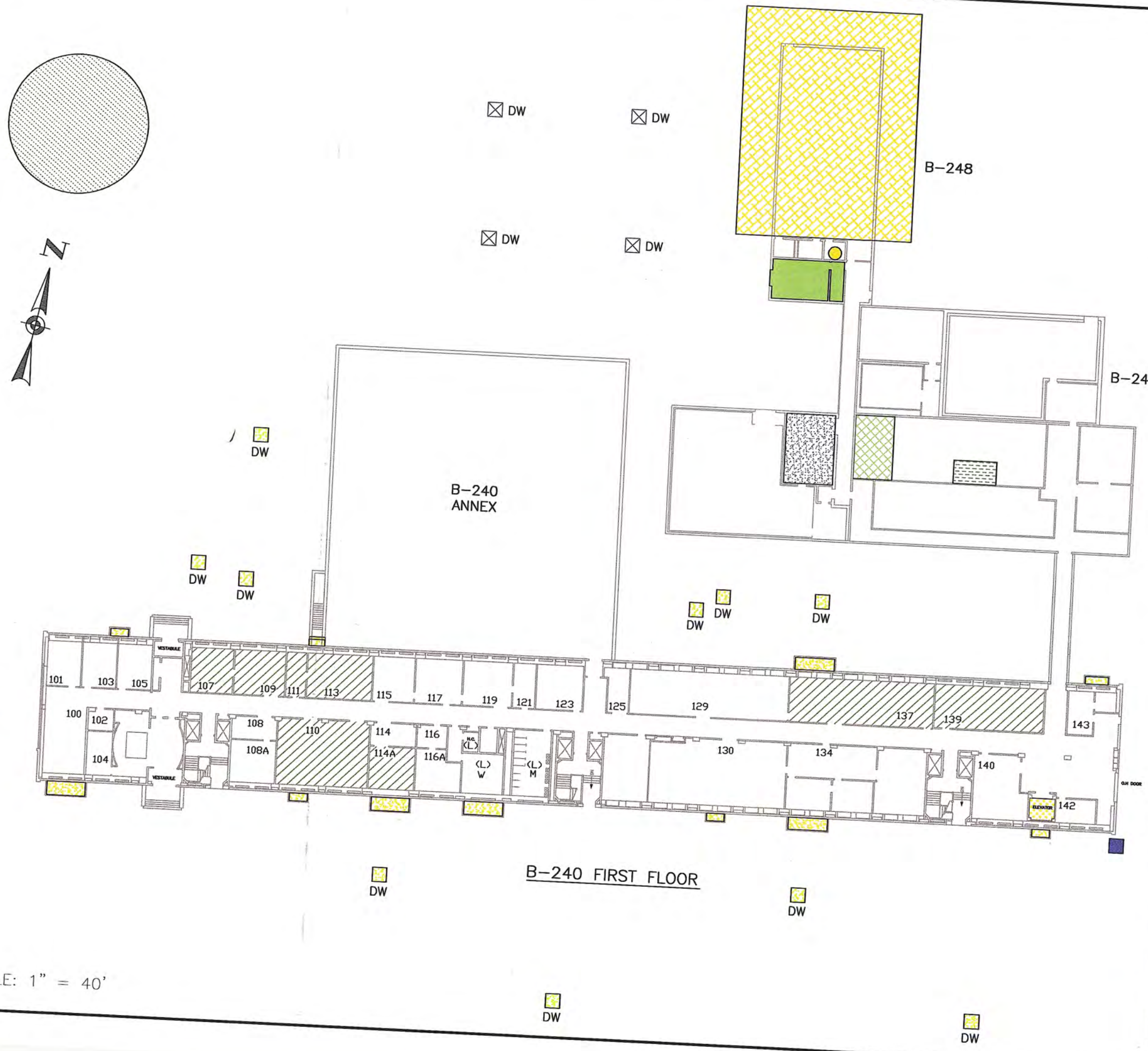

EBS CATEGORY [1] PROPERTY

- AOC-B240-10 LOCKED HATCH SOUTHEAST CORNER B-240
- AOC-B247-01 EQUIPMENT ROOM A
- DW AOC-B248-03 (DRY WELL LOCATION) B-248 DRY WELLS

EBS CATEGORY [2] PROPERTY

- AOC-B247-03 STAINED FLOOR MECHANICAL ROOM
- AOC-B248-01 STAINED FLOOR MECHANICAL ROOM

EBS CATEGORY [3] PROPERTY

- AOC-B240-08 FORMER BUILDING USES
- AOC-B240-11 STRESSED VEGETATION ALONG PERIMETER FENCE
- AOC-B247-02 PHOTOGRAPHY LABORATORY

EBS CATEGORY [4] PROPERTY

- AOC-B240-03 B-240 ELEVATOR SHAFT
- DW AOC-B240-09 (DRY WELL LOCATION) B-240 DRY WELLS
- AOC-B248-02 FLOOR DRAINS AND ACID NEUTRALIZATION SUMP
- AOC-B248-04 ABANDONED HAZARDOUS MATERIALS

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ROME RESEARCH SITE
ROME, NY

APPROVED SIGNATURE	OFFICE
	IFOC
	IFOCC
	IFOCO
	USER
	USER
	USER
COORDINATION	
	IFOCO
	IFOCV
	IFOF
	IFOS

DESIGN FIRM
LU ENGINEERS
Civil and Environmental

Designer	Project Manager
GLA	RJE
Drafter	Date
DLS	JAN. 2004

REVISION	BY/DATE

SHEET TITLE
PROPERTIES CATEGORY MAP

SHEET	OF
1	2

PROJECT TITLE
ENVIRONMENTAL BASELINE SURVEY RRS PARCEL 1

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13124-11	
Drawing Number	Facility Number
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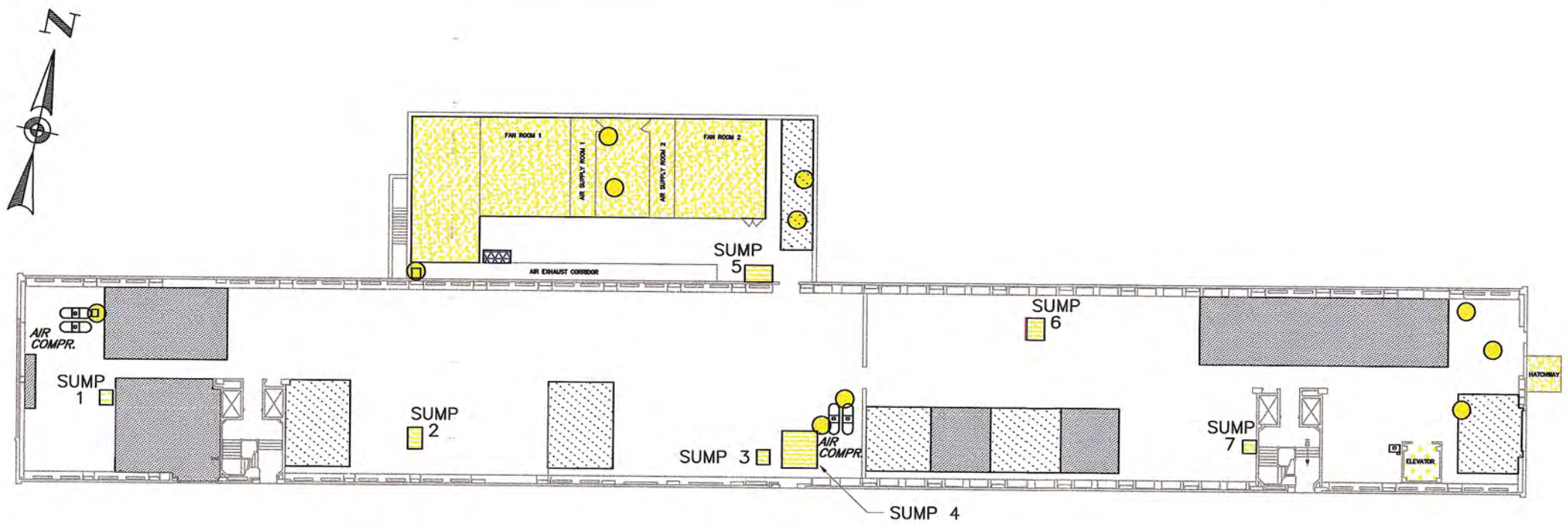
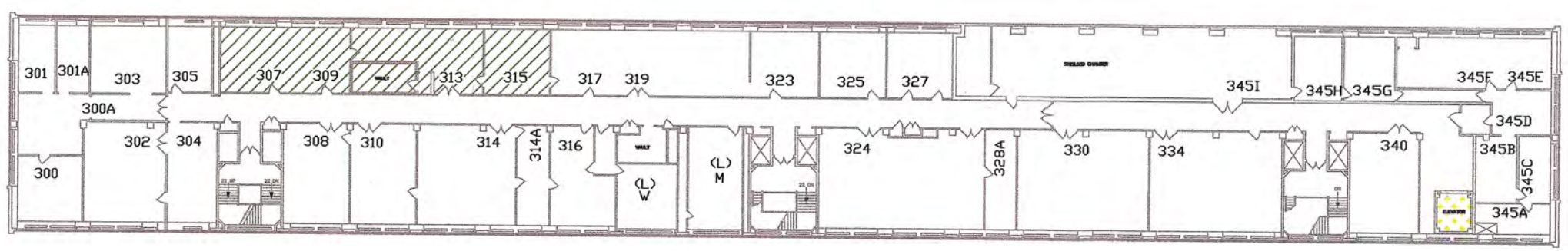
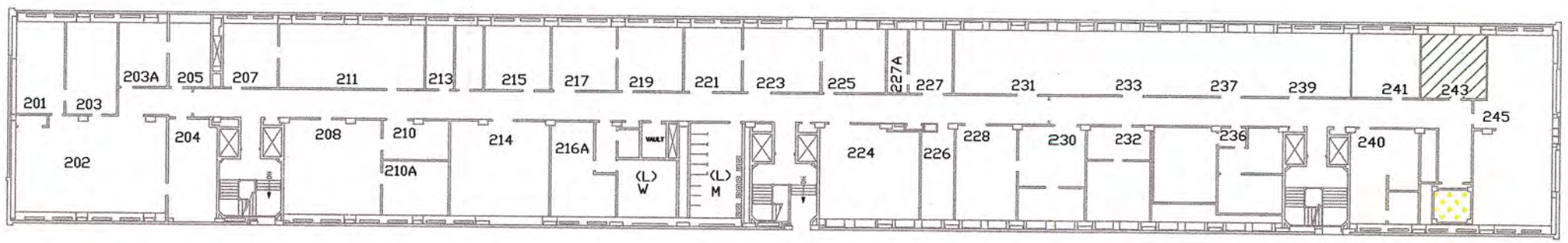


B-240 BASEMENT



BLDG 240 THIRD FLOOR



BLDG 240 SECOND FLOOR

SCALE: 1" = 40'

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EBS CATEGORY 1 PROPERTY

- AOC-B240-05 CAGED STORAGE IN BASEMENT
- AOC-B240-06 ABANDONED OILS AND MISCELLANEOUS MATERIALS
- AOC-B240-07 OPEN PITS AT BASEMENT LOAD CENTERS

EBS CATEGORY 2 PROPERTY

< NONE IN THIS DRAWING >

EBS CATEGORY 3 PROPERTY

- AOC-B240-08 FORMER BUILDING USES

EBS CATEGORY 4 PROPERTY

- AOC-B240-01 CHILLER SOLUTION TANKS
- AOC-B240-02 BASEMENT FLOOR DRAINS AND SUMPS
- AOC-B240-03 B-240 ELEVATOR SHAFT
- AOC-B240-04 OIL STAINED AREAS IN BASEMENT
- AOC-B240-09 B-240 DRY WELLS

AIR FORCE RESEARCH LABORATORY

ROME RESEARCH SITE
ROME, NY

APPROVED SIGNATURE	OFFICE
	IFOC
	IFOCC
	IFOCO
	USER
	USER
	USER
COORDINATION	
	IFOCO
	IFOCV
	IFOF
	IFOS

DESIGN FIRM
LU ENGINEERS
Civil and Environmental

Designer	Project Manager
GLA	RJE
Drafter	Date
DLS	JAN. 2004

REVISION	BY/DATE

SHEET TITLE
PROPERTIES CATEGORY MAP

SHEET	OF
2	2

PROJECT TITLE
ENVIRONMENTAL BASELINE SURVEY RRS PARCEL 1

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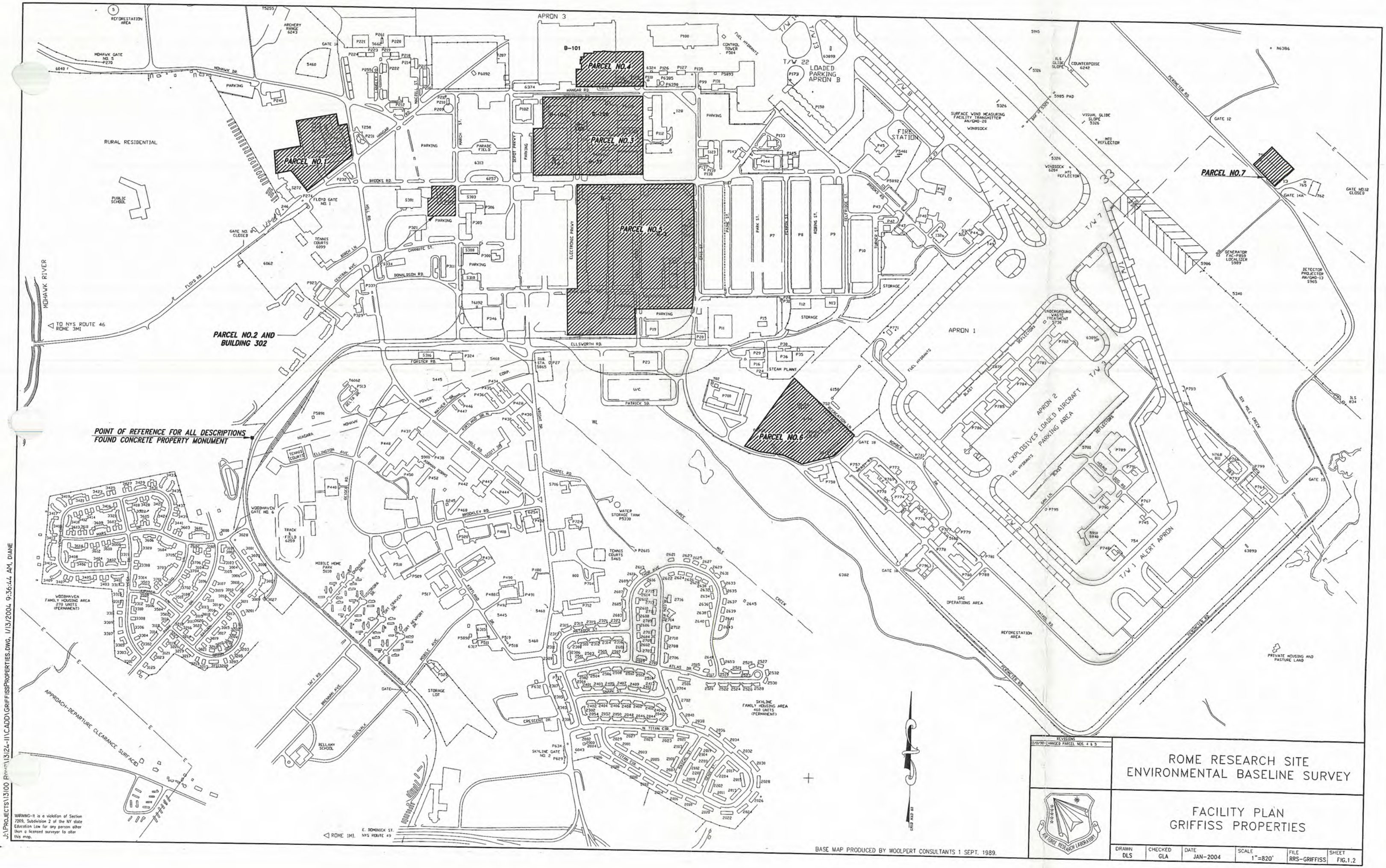
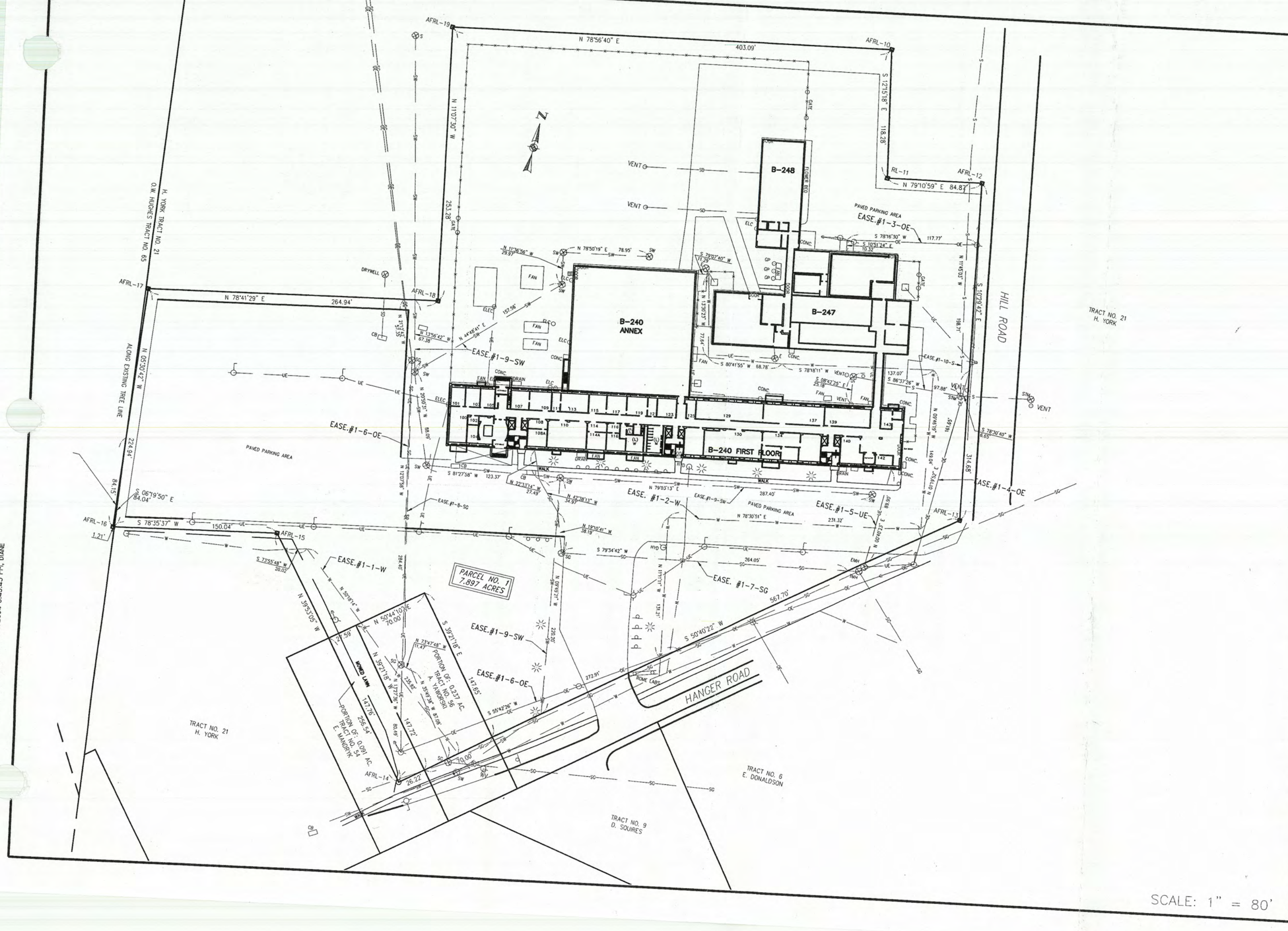
Drawing Number	Facility Number
ES-2	



PARCEL NO.1
PARCEL NO.2 AND BUILDING 302
PARCEL NO.3
PARCEL NO.4
PARCEL NO.5
PARCEL NO.6
PARCEL NO.7
POINT OF REFERENCE FOR ALL DESCRIPTIONS FOUND CONCRETE PROPERTY MONUMENT
RURAL RESIDENTIAL
MOHAWK RIVER
APRON 1
APRON 2
APRON 3
LOADED PARKING APRON B
FIRE STATION
EXPLOSIVES LOADED AIRCRAFT PARKING AREA
ALERT APRON
SAC OPERATIONS AREA
REFORESTATION AREA
PRIVATE HOUSING AND PASTURE LAND
WOODHAVEN FAMILY HOUSING AREA 270 UNITS (PERMANENT)
SKYLINE FAMILY HOUSING AREA 460 UNITS (PERMANENT)
MOBILE HOME PARK 5030
TENNIS COURTS 5465
STORAGE LOT
BELLAMY SCHOOL
APPROACH-DEPARTURE CLEARANCE SURFACE
TO NYS ROUTE 46 ROME 3MI
ROME 1MI.
E. DOMINICK ST. NYS ROUTE 49
WARNING-It is a violation of Section 7209, Subdivision 2 of the NY state Education Law for any person other than a licensed surveyor to alter this map.
J:\PROJECTS\13100 ROME\13124-11\CADD\GRIFFISSPROPERTIES.DWG, 1/13/2004 9:36:44 AM, DIANE
BASE MAP PRODUCED BY WOOLPERT CONSULTANTS 1 SEPT. 1989.
REVISIONS
11/18/98-CHANGED PARCEL NOS. 4 & 5
ROME RESEARCH SITE
ENVIRONMENTAL BASELINE SURVEY
FACILITY PLAN
GRIFFISS PROPERTIES
AIR FORCE RESEARCH LABORATORY
DRAWN DLS
CHECKED GLA
DATE JAN-2004
SCALE 1"=820'
FILE RRS-GRIFFISS
SHEET FIG.1.2



SCALE: 1" = 80'

AIR FORCE RESEARCH LABORATORY

ROME RESEARCH SITE
ROME, NY

APPROVED SIGNATURE	OFFICE
	IFOC
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	IFOCO
	USER
	USER
	USER

COORDINATION	
	IFOCO
	IFOCV
	IFOF
	IFOS

DESIGN FIRM
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Civil and Environmental

Designer	Project Manager
GLA	RJE
Drafter	Date
DLS	JAN. 2004

REVISION	BY/DATE

SHEET TITLE
PARCEL 1
SITE PLAN

SHEET 1 OF 1

PROJECT TITLE
ENVIRONMENTAL
BASELINE SURVEY
RRS PARCEL 1

Project Number: 13124-11
Drawing Number: FIGURE 1.3
Facility Number:

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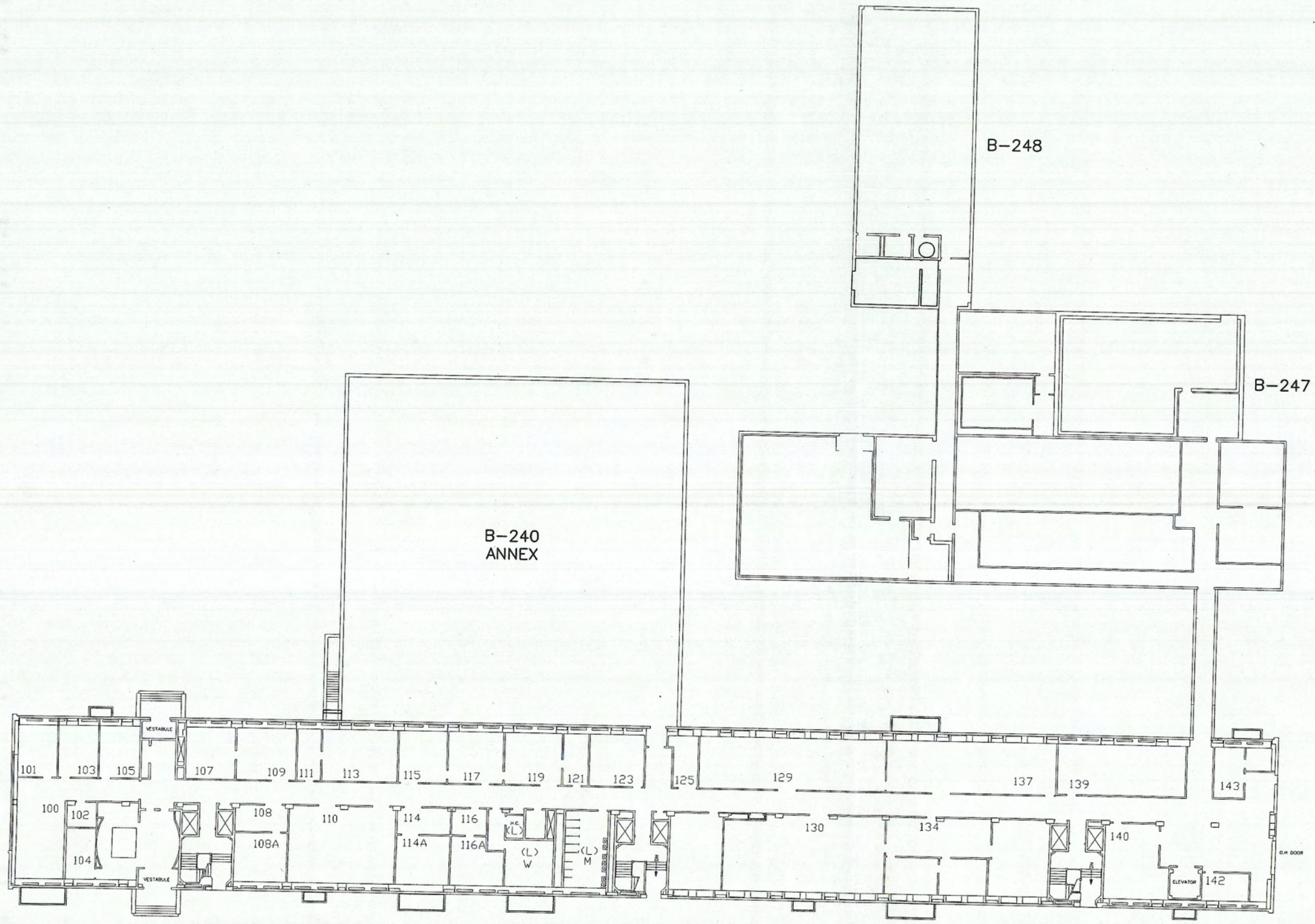

B-240 FIRST FLOOR

N

SCALE: 1" = 40'

AIR FORCE RESEARCH LABORATORY

ROME RESEARCH SITE
ROME, NY

APPROVED SIGNATURE	OFFICE
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COORDINATION	
	IFOCO
	IFOCV
	IFOF
	IFOS

DESIGN FIRM
LU ENGINEERS
Civil and Environmental

Designer	Project Manager
GLA	RJE
Drafter	Date
DLS	JAN. 2004

REVISION	BY/DATE

SHEET TITLE
BUILDING PLAN

SHEET	OF
1	2

PROJECT TITLE
ENVIRONMENTAL BASELINE SURVEY RRS PARCEL 1

Project Number
13124-11

Drawing Number	Facility Number
FIGURE 1.4	

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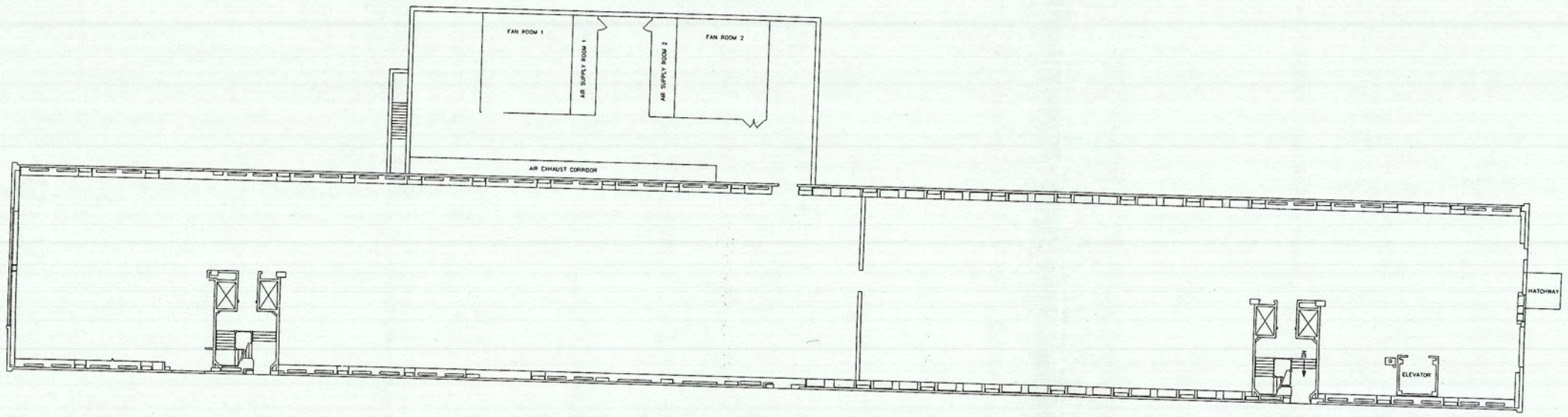
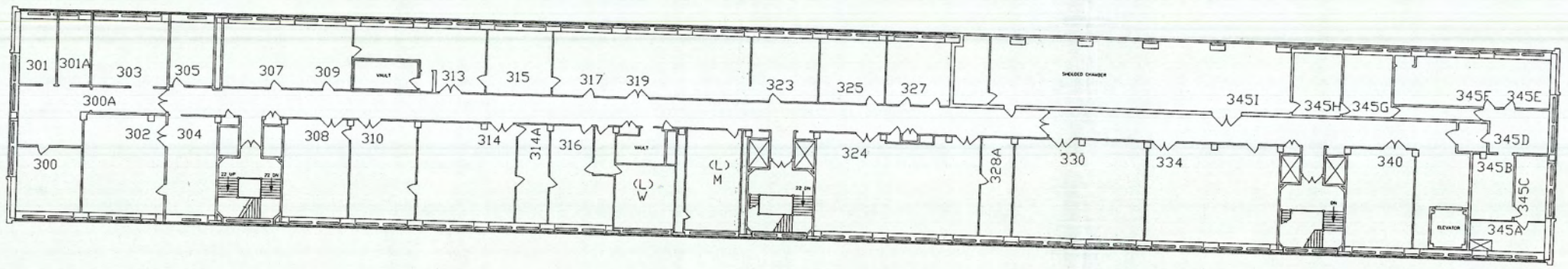
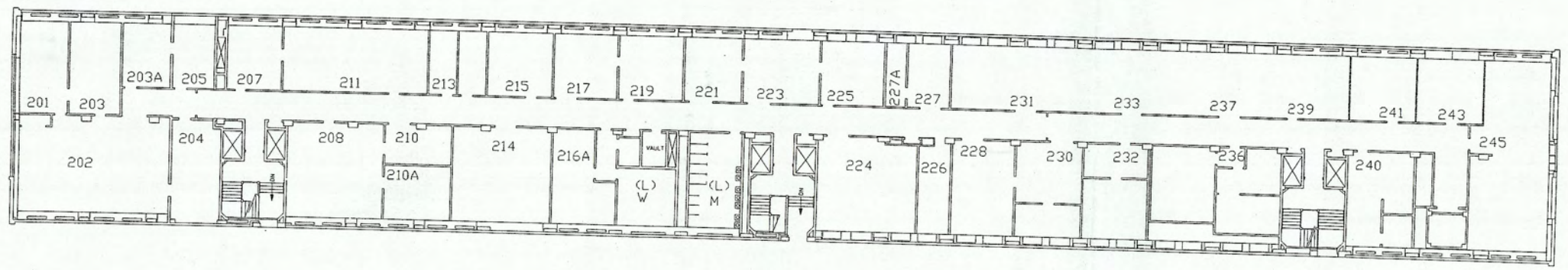


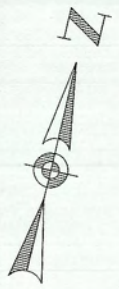
B-240 BASEMENT



BLDG 240 THIRD FLOOR



BLDG 240 SECOND FLOOR



SCALE: 1" = 40'

AIR FORCE RESEARCH LABORATORY

ROME RESEARCH SITE
ROME, NY

APPROVED SIGNATURE	OFFICE
	IFOC
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	IFOCO
	USER
	USER
	USER
COORDINATION	
	IFOCO
	IFOCV
	IFOF
	IFOS

DESIGN FIRM
LU ENGINEERS
Civil and Environmental

Designer	Project Manager
GLA	RJE
Drafter	Date
DLS	JAN. 2004

REVISION	BY/DATE

SHEET TITLE
BUILDING PLAN

SHEET	OF
2	2

PROJECT TITLE
ENVIRONMENTAL BASELINE SURVEY RRS PARCEL 1

Project Number
13124-11

Drawing Number	Facility Number
FIGURE 1.5	

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2.0 SURVEY METHODOLOGY

2.1 Approach and Rationale

The findings produced by the research, inspections, sampling and testing work conducted for this EBS were used to define discreet areas of the subject property according to environmental conditions. Areas of the property identified by either previous investigations or this EBS were designated as EBS "areas of concern" (AOCs). It is noted that EBS AOCs are not necessarily subject to the same process used to characterize and remediate CERCLA AOCs. These designations facilitated the process of defining areas potentially requiring further investigation as part of the EBS process. A total of 12 AOCs were identified in association with B-240, three AOCs were identified in association with B-247 and four AOCs were identified in association with B-248. These AOCs are described in Section 2.1.2. Areas of the property not specifically designated as EBS AOCs are considered to be EBS Category 1 property, unless otherwise specified.

2.1.1 Description of Documents Reviewed

Lu Engineers and RRS are currently in the continual process of reviewing available information regarding the potential for environmental contamination to affect conditions within RRS property at the GBTP. A variety of sources are being utilized to make these determinations, including regulatory databases and the extensive libraries maintained under the various active Air Force and DOD programs at the GBTP. A list of references used for this EBS is provided as Appendix B.

The following sections describe the sources of information being used for this EBS. General descriptions of relevant environmental issues are described or referenced in the following sections, as appropriate.

A portion of the research being conducted for this EBS has been completed through a subcontracted environmental database search report. To the extent possible, Lu Engineers has also conducted independent verification of the information obtained by this service. A summary of the findings of the database search report is included as Appendix C.

2.1.1.1 Federal Databases

The United States Environmental Protection Agency (USEPA) maintains several databases that list sites of significant environmental concern. The following Federal databases were reviewed as part of this EBS: National Priorities List (NPL), Comprehensive Environmental Response, Compensation, Liability Information System (CERCLIS), Resource Conservation and Recovery Information System (RCRIS), Toxic Release Inventory (TRIS), Emergency Response Notification System (ERNS), Aerometric Information Retrieval System (AIRS), the Asbestos Contractors Tracking Systems (ACTS), the Federal Facility Identification System (FFIS) and the Permits Compliance Systems (PCS). Each database was searched to the distance specified by ASTM E-1527-00, or to a distance of 1.25 miles.

The majority of the databases reviewed to date do not specify the limits of contaminated or otherwise regulated portions of the GBTP. A summary of the USEPA database findings is included in Appendix C, Database Search Report Summary.

Properties and facilities identified on USEPA databases within 1.25 mile of Parcel 1 include a variety of locations within the GBTP property and vicinity. The most notable finding provided by the USEPA database searches is that the entire GBTP property is listed as a National Priority List (NPL) site.

2.1.1.1.1 Air Force Real Property Agency

In addition to USEPA databases, much of the information reviewed for this EBS was obtained through the Air Force Real Property Agency (AFRPA) office (formerly the Air Force Base Conversion Agency (AFBCA)), located at the GBTP. The AFRPA's Environmental Section is responsible for tracking all information relating to environmental conditions of property at the former GAFB and offsite locations. The AFRPA is also responsible for conducting environmental assessments, investigations and cleanups as required by the USEPA and/or New York State Department of Environmental Conservation (NYSDEC). Information obtained from the AFRPA is provided and referenced throughout this EBS as appropriate. A summary of the information obtained from AFRPA relating to Parcel 1 and immediately surrounding property is provided as Appendix E, AFRPA Information Summary.

In December 2003, Lu Engineers updated the previous review of information available from the AFRPA. It is noted that AFRPA is in the process of updating and consolidating all of its environmental information into an EBS for the entire GBTP site. The AFRPA's EBS is being prepared in a format that allows access through a geographic information system (GIS).

Findings indicated by the research conducted to date through the AFRPA are provided in Section 2.1.1.3.

2.1.1.1.2 RRS Environmental, Safety & Occupational Health Office

The IFOCV office has provided documentation used in the preparation of this EBS. While GAFB was still in existence, the IFOCV staff provided environmental engineering support to the base and offsite facilities. Prior to 1992, the IFOCV staff was responsible for all aspects of environmental compliance at GAFB. Since (approximately) 1992, the tracking of environmental investigation and cleanup required under the Air Force Environmental Restoration Plan (AFERP) has primarily been the responsibility of the AFRPA. However, IFOCV retains responsibility for the majority of environmental compliance issues relating to property owned by RRS.

Sources of information provided by IFOCV include, historical building plans and maps, property deed and title information, compliance planning documents and related information. Information obtained through this document review has been used and referenced as appropriate throughout this EBS.

2.1.1.2 State Databases

The NYSDEC maintains databases on Inactive Hazardous Waste Sites (IHWS), Petroleum and Chemical Bulk Storage (PBS and CBS) facilities, Leaking Underground Storage Tanks (LUST), Spills and Major Oil Storage Facilities (MOSF). NYSDEC databases were searched beyond the distance specified in ASTM E-1527-00. A summary of the NYSDEC Database information is provided in Appendix C. Appendix F includes NYSDEC Spill Database information. Building 247 was the only building on Parcel 1 specifically listed in the NYSDEC databases reviewed to date.

2.1.1.2.1 NYSDEC Inactive Hazardous Waste Sites

The NYSDEC maintains a registry of sites known to have been used for the disposal of hazardous wastes. Inactive Hazardous Waste Disposal Sites located within a 1.25-mile radius of Parcel 1 are specified in Appendix C.

2.1.1.2.2 NYSDEC Hazardous Substance Waste Disposal Site Study

In 1995, the NYSDEC prepared a statewide list of sites where disposal of hazardous substances was suspected. Relevant information regarding Hazardous Substance Waste Disposal Sites in the vicinity of Parcel 1 is specified in Appendix C.

2.1.1.2.3 NYSDEC Petroleum Bulk Storage (PBS) Facilities

The NYSDEC requires facilities that store more than 1,100 gallons of petroleum products, waste oil or used oil to register with the NYSDEC. Data on registered PBS facilities is updated quarterly by the NYSDEC. Relevant information regarding PBS facilities located within a 1.25-mile radius of Parcel 1 is provided in Appendix C.

2.1.1.2.4 NYSDEC Chemical Bulk Storage (CBS) Facilities

The NYSDEC requires registration of all facilities that store more than 180 gallons of hazardous substances in tanks above or below ground. Data on registered CBS facilities is updated quarterly by the NYSDEC. Relevant information regarding CBS facilities located within a 1.25-mile radius of Parcel 1 is provided in Appendix C.

2.1.1.2.5 New York Solid Waste Facility (SWF)

The NYSDEC maintains a database of information on permitted SWF throughout New York. Relevant information regarding SWF located within a 1.0-mile radius of Parcel 1 is provided in Appendix C.

2.1.1.2.6 NYSDEC Reported Spill Incidents

The NYSDEC maintains a database of reported releases of petroleum and other suspected hazardous substances. Relevant information regarding NYSDEC-listed spills located in the immediate vicinity of Parcel 1 is provided in Appendix F.

2.1.1.2.7 State Leaking Underground Storage Tanks (LUSTs)

The NYSDEC's LUST listings represent a subset of the database of reported releases of petroleum and other suspected hazardous substances. Appendix C provides a summary of LUSTs listed for the vicinity of Parcel 1.

2.1.1.2.8 Local Databases

Attempts to obtain local environmental information for this EBS have been limited to the resources available through AFRPA, IFOCV and the sources noted above. A list of references used for the EBS research is included as Appendix B.

2.1.1.3 Previous Site Assessment and Investigations

Based on the information reviewed to date, environmental assessment and investigation projects at the former GAFB have been almost entirely undertaken by the AFRPA. With the exception of the current EBS, RRS has generally focused environmental efforts at the GBTP toward compliance issues rather than environmental assessment and investigation.

Previous work involving Parcel 1 has included the GAFB EBS (presently being updated by AFRPA), and CERCLA Areas of Interest (AOI) studies conducted in 1994 and 1996. A study conducted by the U.S. Army Corps of Engineers (COE) in 1994 was intended to identify all AOIs located at Griffiss AFB. This study identified six AOIs.

- AOI #30 and #402, both named "B240/ B247/ B248 Drywells", which have EBS ID No.s DRY-240-01 thru DRY-240-15, DRY-248-01 & DRY-248-02. AFRPA currently considers AOI #30 to warrant no further study.
- AOI #48 – "B240/ B247/ B248 Drum Storage Area", has an EBS ID No. of OTH-245. AFRPA currently considers AOI #48 to warrant no further study.
- AOI #156 – "B248 Transformer Pad" does not have an EBS ID No. AOI #156 is covered under other programs.
- AOI #159 – "B240/ B247/ B248 Area Transformer Pad" does not have an EBS ID No. AFRPA currently considers AOI #159 to warrant no further study.
- AOI #453 – "B240/ B247/ B248 Area – Five Horizontal ASTs" does not have an EBS ID No. AFRPA currently considers AOI #453 to warrant no further study.

Reviewed documentation from AFRPA or USCOE projects with specific relevance to determining environmental conditions at Parcel 1 property is referenced in Appendix E.

2.1.1.4 Historic Aerial Photographs

Aerial photographs of the Parcel 1 property and vicinity dating from 1938 to the present were reviewed at the AFRPA office at B-301. Aerial photos have also been provided by IFOCV. The aerial photographs provided additional documentation of general site history including the appearance and disappearance of site buildings and miscellaneous site activities visible from the air. The collection maintained by AFRPA includes hundreds of photographs providing a nearly continuous timeline for the facility. Findings of apparent potential relevance to environmental conditions at Parcel 1 are provided in Section 3.2, History and Current Use.

2.1.1.5 Local Historical Information

A large part of site historical information was obtained through review of map files maintained by IFOCV. Relevant information was also obtained from various environmental reports provided by the AFRPA. Other sources of historical information used for this EBS include the AFRPA collection of aerial photographs, RRS' 1999 Cold War Building Survey, the RRS photo laboratory, and Dr. Thomas Thomson, AFRL historian.

2.1.1.6 Other Sources of Information

Several additional sources of information were used for completion of the EBS. Information obtained from these sources is included in the body of this document, as appropriate.

- AFRL RRS Bioenvironmental files maintained by IFOCV were reviewed.
- RRS IFOCV personnel were interviewed as part of the research conducted for this EBS.
- Other site historical information pertaining to site environmental conditions for this report is referenced as appropriate within the document.

A list of references is provided as Appendix B to this report.

2.1.2 Property Inspections

The building and surrounding property were first inspected by Lu Engineers in April 2000. Several additional inspections of the property have been conducted since that time. Site inspection activities were conducted in accordance with ASTM E1527–00 and included both interior and exterior areas of the building. Exterior areas of the Parcel 1 property were evaluated for features including, but not limited to the following:

- Pits, ponds or lagoons
- Stained soil or pavement
- Stressed vegetation
- Solid and/or liquid waste(s)

- Wastewater
- Wells
- Septic Systems
- Aboveground and underground storage tanks
- Vent or fill pipes
- Chemical storage areas
- Unusual odors
- Fill or borrow areas
- Abnormal wildlife

Findings relating to conditions and features within Parcel 1 include, but are not limited to, the following:

- Heating and cooling systems
- Stains or corrosion
- Petroleum storage
- Stormwater systems
- Sanitary sewer systems
- Suspected hazardous and/or contaminated materials storage or disposal
- Potentially hazardous or otherwise contaminated building materials
- Electrical systems

Suspected hazardous materials including asbestos containing building materials and lead based paint were observed both on the interior and exterior of B-240, B-247 and B-248. The occurrence of asbestos containing materials and lead-based paint are discussed in Sections 3.16 and 3.19, respectively.

Suspected hazardous or otherwise contaminated waste and/or contaminated materials were observed during the property inspection. The presence of organic vapors was evaluated in exterior drainage features, floor drains, sinks and low spots in the floor by means of a photoionization detector (PID) and by sampling and laboratory analyses in certain locations. Elevated levels of organic vapor were identified in several areas of the property. Specific information relating to environmental conditions observed during the Parcel 1 inspection may be found in Sections 3.1 through 3.19.

The site inspections, in conjunction with findings obtained by review of referenced information sources, were used to develop the Site Inspection Plan, Figure 2.1, which indicates the location of EBS AOCs determined to be associated with Parcel 1. It is noted that the acronym "AOC" is used herein as an alternative to the equivalent ASTM's "Recognized Environmental Condition" or REC. The AOCs identified by this EBS do not generally meet the definition of CERCLA Areas of Concern. As indicated in Figure 2.1, a total of 19 AOCs were identified in association with the Parcel 1 property. These include the following:

Building 240

- AOC-B240-01, Chiller Solution Tanks
- AOC-B240-02, Basement Floor Drains and Sumps
- AOC-B240-03, B-240 Elevator Shaft
- AOC-B240-04, Oil Stained Areas in the Basement
- AOC-B240-05, Caged Storage in Basement
- AOC-B240-06, Abandoned Oils and Miscellaneous Materials
- AOC-B240-07, Open Pits at Basement Load Centers
- AOC-B240-08, Former Building Uses
- AOC-B240-09, B-240 Dry Wells
- AOC-B240-10, Locked Hatch, Southeast Corner B-240
- AOC-B240-11, Stressed Vegetation along Perimeter Fence
- AOC-B240-12, Building 240/ 247/ 248 Former Drum Storage Area

Building 247

- AOC-B247-01, Equipment Room A
- AOC-B247-02, Photography Laboratory
- AOC-B247-03, Stained Floor Mechanical Room

Building 248

- AOC-B248-01, Stained Floor Mechanical Room
- AOC-B248-02, Floor Drains and Acid Neutralization Crock
- AOC-B248-03, B-248 Dry Wells
- AOC-B248-04, Abandoned Hazardous Materials

2.1.3 Personal Interviews

A complete list of interviews, correspondence and reference documents is included in Appendix B of this EBS.

2.1.4 Sampling

Sampling and testing was conducted during each stage of the EBS. The results of this work are provided throughout Section 3, as appropriate. Numerous samples were obtained for laboratory analysis during the course of the Parcel 1 EBS. Sampling included:

- manual surface soil sampling (various analytes)
- manual waste sampling (various analytes)
- mechanical subsurface soil sampling (various analytes)
- passive soil vapor sampling (various analytes)
- interior air sampling for organic contaminants
- interior air sampling for radon
- insulation and caulk sampling for asbestos
- interior air sampling for asbestos
- oil and wipe sampling for PCBs
- surface coating materials sampling for lead (paint)

Detailed discussions of all sampling and testing conducted are presented in the Findings Memoranda provided as Appendix G.

The findings of the initial (Phase I) portion of the Parcel 1 EBS were provided to RRS in June 2000 (see Appendix G1) and March 2001 (see Appendix G2) included:

- Discretionary sampling of various painted surfaces for the presence of lead.
- Discretionary sampling for the presence of radon in occupied buildings at the site.
- Field screening for the presence of volatile organic vapor via field instrumentation.

The majority of corrective action efforts conducted for this EBS were documented in February 2003 and January 2004 memoranda (see Appendix G3 and G5). Corrective Action sampling and testing included:

- Asbestos abatement and associated air sampling
- Manual and direct-push soil sampling for various analytes
- Passive soil vapor survey for volatile organic vapor
- Waste sampling on abandoned waste materials
- Air quality monitoring with various instrumentation

The final Phase II EBS (see Appendix G4) was completed in March 2003 and included:

- Manual and direct-push soil sampling for various analytes
- Air sampling for volatile organic vapor
- Air quality monitoring with various instrumentation

Laboratory analytical reports and tabulated data are provided along with related documentation in Appendix G.

RRS made all appropriate underground utilities location confirmation prior to commencing intrusive work.

3.0 FINDINGS FOR SUBJECT PROPERTY

The following sections describe Phase I and II EBS findings to date for Parcel 1. Unless noted otherwise, copies of tabulated analytical data and laboratory analytical reports are provided in Appendix G.

3.1 EBS Areas of Concern (AOCs)

3.1.1 AOC Identification and Status

The following sections provide information on the rationale for EBS AOC designations with respect to Parcel 1, and synopses of the current status of each. Detailed descriptions of activities and findings associated with each AOC are provided in Appendix G.

3.1.1.1 AOC-B240-01, Chiller Solution Tanks

The building inspection conducted on April 24, 2000 revealed the presence of three tanks associated with the abandoned air-handling units in the B-240 Annex basement. Two of the three tanks contained a yellowish liquid and the third tank was empty. The empty tank was constructed of steel and was severely rusted. The floor around this tank was stained with a crusty white residue. It was suspected that a spill had occurred due to the poor condition of this tank. The remaining tanks containing liquid were constructed of steel were in poor condition. A fourth tank was found to be part of the active HVAC system serving B-240 and was therefore, not considered an EBS AOC issue.

One of the two drains adjacent to the suspected spill had an elevated PID reading. Another area of staining was located adjacent to an exit door along the west end of the annex basement, approximately 10 feet south of the spill previously discussed. This area was stained a bluish black and was approximately 10 feet by 10 feet in area.

Inspection and sampling/testing findings warranted initial characterization of this AOC as Category 7 property until contaminated and hazardous materials could be removed and properly disposed. This process was initiated with proper transfer of 200 gallons of hazardous liquid to drums by Lu Engineers and was disposed of by RRS. The system components were power-washed prior to being manually removed from the work area. Concurrent with the dismantling process, asbestos abatement was conducted as necessary. Air quality was monitored for carbon dioxide, oxygen, lower explosive limit, volatile organic compounds, and carbon monoxide during all confined space work. Documentation of the process and associated sampling and testing is provided in Appendix G4.

Subsequent to the AOC-B240-01 cleanup work, a small Kathabar unit was identified near other non-hazardous abandoned HVAC ductwork and equipment near the center of the main B-240 basement. Research and inspection of this unit revealed the presence of both asbestos containing materials and Kathene residue containing hexavalent chromium. This unit was cleaned and dismantled in October 2003. All contaminated wastes and asbestos were handled and disposed in accordance with applicable regulations. Documentation of this work is provided in Appendix G5. Based on the findings of this EBS, AOC-B240-01 should be considered as EBS Category 4 property.

3.1.1.2 AOC-B240-02, Basement Floor Drains and Sumps

The building plan review and subsequent inspection of the basement beneath B-240 revealed 27 floor drains and 7 sumps. All of the floor-drains were found to discharge to sumps. None of the sumps or floor-drains exhibited elevated PID readings.

Oil stained areas were present throughout the basement. The staining appeared to be related to compressors or motors and is often located near floor drains. The presence of staining around the floor-drains and sumps suggested that contaminants may have been discharged to the sanitary sewer in the past through the sumps and associated floor-drains.

These findings lead to an initial characterization of this AOC as Category 7 property. Accessible waste materials were removed and properly disposed during the initial Phase II EBS portion of the work in 2001. This process included removal of sump contents via vacuum methods. Appropriate health and safety monitoring was conducted for this process including PID and aerosol monitoring. No detectable levels of volatile organics or airborne contaminants were detected during the vacuuming process. Wastewater and solids were disposed of by RRS. This work is documented in Appendix G2.

The majority of concerns associated with AOC-B240-02 were eliminated when the sumps were cleaned for inspection during the initial Phase II EBS portion of this project as indicated above. The only finding warranting additional corrective action was the presence of PCBs in the interior surface of Sump #2, which exceeded the EPA limit of 10 ug/100cm^2. Appropriate remediation of residual PCBs detected at Sump #2 was conducted in 2002 and documented in Appendix G3, to allow for re-categorization of this AOC to EBS Category 4 property.

This final phase of the EBS also involved removal of oil staining around floor drains. These areas were successfully cleaned and laboratory results indicated compliance with EPA standards. AOC-B240-02 is currently considered EBS Category 4 property.

3.1.1.3 AOC-B240-03, B-240 Elevator Shaft

Inspection of the elevator pit indicated the presence of widespread staining. Stained surfaces appeared to be consistent with long-term low-volume hydraulic oil spillage. A small volume of hydraulic fluid is continually wiped from the hydraulic ram in the elevator pits as the elevator operates. This fluid is directed into a small tray that is periodically emptied. No information was available to determine how often this tray was emptied. Hydraulic oil and absorbent material was present around the hydraulic reservoir tank adjacent to the elevator, suggesting a release. These findings lead to an initial characterization of this AOC as Category 7 property.

The concentrations of PCBs detected in the clay sorbent material and residue on the pit floor did not appear to indicate the presence of significant levels of PCB contamination. However, the presence of detectable PCB concentrations associated with AOC-B240-03 warranted cleanup of oily residues and sorbent material.

Oil staining and contaminated debris were successfully removed from the elevator pit. This allowed for re-categorization of this AOC to EBS Category 4 property.

The possibility of potential subsurface impacts in this area warranted soil sampling beneath the basement floor adjacent to the elevator shaft.

Sampling was conducted by means of a track-mounted Geoprobe® equipped with a 2-inch diameter sample barrel. The probe was driven to a depth of 16 feet below basement floor grade at 4-foot intervals.

The analytical results indicated that hydraulic fluid from the elevator system has entered the subsurface at this location. The slightly elevated PID reading of 10 ppm also supports that conclusion, although no free-phase hydraulic fluid was observed during sampling. The lack of free-phase hydraulic fluid in the coarse-grained soils at this location is considered to be an indication that microbial degradation is successfully eliminating subsurface hydraulic oil contamination. Corrective action and Phase II EBS work associated with AOC-B240-03 is documented in Appendices G3 and G4, respectively. Based on the information currently available, AOC-B240-03 should be considered EBS Category 4 property.

3.1.1.4 AOC-B240-04, Oil Stained Areas in the Basement

An inspection of B-240 basement revealed areas where significant oil staining was present. Sampling for PCBs indicated two areas requiring cleanup including, 1) the northeast basement corner and, 2) the floor beneath abandoned HVAC equipment in the B-240 Annex basement.

These findings lead to a re-categorization of this AOC as from Category 7 property to Category 6 property. Oil staining and contaminated debris were successfully removed from the areas mentioned above in 2002, as documented in Appendix G3. This allowed for a re-categorization of this AOC to an EBS Category 4 property. Based on the findings of confirmatory sampling conducted after cleanup of this AOC, AOC-B240-04 should be considered EBS Category 4 property.

3.1.1.5 AOC-B240-05, Caged Storage in Basement

The building inspection included several fenced/caged areas in the B-240 basement, initially suspected of including abandoned hazardous materials. No significant environmental concerns were noted during detailed inspections of these locations. It is therefore contended that *de minimus* quantities of hazardous material or other contaminated materials may be present with this AOC. Therefore, AOC-B240-05 is considered to be EBS Category 1 property.

3.1.1.6 AOC-B240-06, Abandoned Oils and Miscellaneous Materials

Abandoned oils and miscellaneous materials found in the B-240 basement were removed and disposed of by RRS/IFOCV in 2001. Based on the information reviewed to date, this AOC should be considered EBS Category 1 property.

3.1.1.7 AOC-B240-07, Open Pits at Basement Load Centers

Review of the building plans indicates that an open pit is located beneath the electrical units at each load center. The open pits are apparently not lined and would provide a direct conduit to the subsurface if a spill were to occur. The units above the pits are labeled with blue "No PCBs" stickers. A detailed inspection of the load centers accompanied by RRS personnel indicated that these pits were inaccessible.

Based on the lack of documented spills associated with this AOC and fact that the presence of PCBs was not indicated in RRS' previous detailed PCB inventory project, AOC-B240-07 should be considered to be EBS Category 1 property.

3.1.1.8 AOC-B240-08, Former Building Uses

The presence of contaminated materials or hazardous waste was not indicated by the detailed inspection of the listed areas of B-240. In addition, based on further research, sampling and testing associated with other AOCs at Parcel 1, it is assumed that the past drainage systems and processes considered to be of concern may have discharged contaminated contents into downstream drainage facilities in the past. Based on the information currently available, AOC-B240-08 should be considered to be EBS Category 3 property.

3.1.1.9 AOC-B240-09, B240 Dry Wells

The possibility that hazardous waste and/or contaminated materials have been discharged into the drywell at the east end of B-240 was initially indicated by elevated levels of contaminants identified by a sediment sample obtained from this location. In addition, possible past spillage of PCBs on the roof of B-240, as has reportedly occurred elsewhere on RRS properties in the past, could have resulted in the introduction of PCBs into the roof drain dry wells. Findings relating to the other dry wells associated with B-240 did not indicate environmental concerns. These findings lead to an initial characterization of this AOC as Category 7 property.

Roof core samples taken in 2001 did not indicate detectable concentrations of PCBs in the buildings roof system. Therefore, additional investigation of the dry wells other than the dry well at the east end of B-240, was not warranted.

On August 12, 2002, a test pit was excavated at B-240, 20 feet east of the eastern edge of the B-240 basement shaftway. The location of the test pit was selected based on the location of a dry well indicated on available record plans of B-240 and prior EBS sampling that indicated elevated levels of mercury, lead, PCBs, acetone and butylbenzylphthallate.

A single soil sample was extracted from this test pit. Laboratory analysis showed the presence of semi-volatile organics typical of sites with a long history of industrial use. It was also noted that detected contaminants were not consistent with those detected in the area drain sample. Therefore, the nearby area drain is not considered to be the likely source of the semi-volatile organic soil contamination at this AOC. This work is documented in Appendix G4.

The cleanup of B-240 hatchway, completed in October 2003, allows for re-categorization of AOC-B240-09 EBS Category 4 property.

3.1.1.10 AOC-B240-10, Locked Hatch, Southeast Corner B-240

Exterior inspection of B-240 revealed a locked hatch adjacent to the concrete foundation at the southeast building corner. The hatch was opened by RRS personnel to reveal 9 grounding rods. No indications of significant use or materials were observed. Based on available information, AOC-B240-10 should be considered EBS Category 1 property.

3.1.1.11 AOC-B3240-11, Stressed Vegetation along Perimeter Fence

A circular area of recurring stressed vegetation was observed along the western fence line north of B-240 with a diameter of approximately 50 feet. Sampling indicated elevated levels of semi-volatile organics but at levels that did not exceed applicable NYSDEC guidance values. Since research and sampling did not indicate significant soil contamination or past usage that may have caused the stressed vegetation, it is inferred that no significant environmental concerns are associated with this AOC. AOC-B240-11 should be considered EBS Category 3 property.

3.1.1.12 AOC-B240-12, Building 240/247/248 Former Drum Storage Area

Although initially suspected of having been used for drum storage in the past, review of existing environmental information indicates that the area encompassing Buildings 240, 247 and 248 was not likely to have been used for that purpose. This issue was addressed by AFBCA as AOI #48 and subsequently documented by OTH-245 in the AFBCA's EBS, which considers this to be Category 1 property. Based on available information, AOC-B240-12 should be considered to be EBS Category 1 property.

3.1.1.13 AOC-B247-01, Equipment Room A

Inspection of Equipment Room A did not reveal the presence of issues of apparent environmental significance. Wipe samples were taken within stained areas on the floor. These samples did not contain detectable concentrations of PCBs. Therefore, AOC-B247-01 should be considered EBS Category 1 property.

3.1.1.14 AOC-B247-02, Photography Laboratory

During the initial phase of the EBS, a concrete-lined drainage trench was identified leading from the B-247 chemical storage room into the building's floor drain system. This drainage trench was found to be deteriorated at the connection of steel floor drain system piping connected to the trench. This deterioration may have allowed liquids to bypass the drainage inlet and drain directly to the soils beneath the B-247 photographic shop floor in the event of a spill. These findings lead to an initial characterization of this AOC as Category 7 property.

A track-mounted Geoprobe® was used to sample soils beneath the drainage trench in the B-247 photography lab in 2002. The only analytes detected by the laboratory analysis conducted on the two samples obtained were RCRA metals. The concentrations of the detected RCRA metals did not approach applicable regulatory criteria. This portion of the EBS is documented in Appendix G4.

RRS has completed the process of removing and properly disposing of the various chemicals stored in the B-247 photography laboratory chemical storage room. The removal of these materials has eliminated the potential for chemical spillage in the storage room.

Based on the information currently available, AOC-B247-02 should be considered EBS Category 3 property.

3.1.1.15 AOC-B247-03, Stained Floor, Mechanical Room

Oil staining is present on the floor adjacent to the circulation pumps and the condensing units. Wipe samples obtained from the oil-stained areas on the floor did not indicate the presence of detectable levels of PCBs. This work is documented in Appendix G2. Based on these findings, AOC-B247-03 should be considered EBS Category 2 property.

3.1.1.16 AOC-B248-01, Stained Floor, Mechanical Room

A black stain is present on the floor adjacent to two generators where a transformer may have been located in the past. A small concrete pad beneath an electric motor is also covered by black oil-like staining. Wipe samples obtained from these locations did not indicate the presence of detectable levels of PCBs. This work is documented in Appendix G2. Therefore, AOC-B248-01 should be considered EBS Category 2 property.

3.1.1.17 AOC-B248-02, Floor Drains and Acid Neutralization Sump

Research conducted for the Phase 1 portion of this EBS indicated the presence of three floor drains and an acid neutralization crock beneath the floor of the main room of B-248. RRS removed residual sludge from the acid neutralization crock and drainage system in 2000. A sample of this material indicated the presence of contaminants, but no hazardous waste levels of contaminants were identified.

Following the removal of sludges, Lu Engineers conducted inspection and closure procedures for this drainage system in August 2000. The floor drains and acid neutralization crock were observed to be free of indications of significant contamination. The acid neutralization crock and floor drains were filled with concrete. RRS then conducted a complete decommissioning of the floor drain system including removal of existing drainage piping in the main room of B-248 in September 2000. This work is documented in Appendix G2.

A total of six soil probes were manually drilled through the floor of the main room at B-248. Sampling was conducted where elevated volatile organic soil vapor readings were detected with a PID, or to facilitate reasonable coverage of the study area. No regulated levels of contamination were identified in this area by laboratory analysis.

Based on the findings of the research, sampling and testing conducted in association with AOC-B248-02, it does not appear likely that significant environmental contamination is present in this area of Parcel 1. All required corrective action has been completed. Therefore, AOC-B248-02 should be considered EBS Category 4 property.

3.1.1.18 AOC-B248-03, B-248 Dry Wells

The vents for the active dry wells located to the west of B-248 were checked with a PID. Plan review verified that these dry wells accepted drainage only from the roof of B-248. No detectable levels of organic vapor were observed in these locations. No environmental incidents or other concerns have been found to be associated with AOC-B248-03. Based on available information, the existing and former dry wells should be considered EBS Category 1 property.

3.1.1.19 AOC-B248-04, Abandoned Hazardous Materials

A one-quart container of furniture polish found in the janitor's room at B-248 was found to contain trichloroethylene. RRS has disposed of this material. No indication of spillage of this material has been found. Based on the fact that this material has been removed, AOC-B248-04 should be considered EBS Category 4 property.

3.2 History and Current Use

In 1941, the federal government began construction of the Rome Air Depot on approximately 2,488 acres of purchased and donated land, in the area then known as Wright Settlement. The Air Depot was officially opened in February of 1942. Over the next six years the facility went through numerous name changes until 1948 when it was permanently named Griffiss Air Force Base (GAFB). Over the next 42 years the base was modified with additions to runways and various support facilities, eventually encompassing 3,552 acres at the time of realignment and closure in 1993.

Prior to the construction of the Air Depot, the land was primarily pasture and croplands with scattered farmsteads associated with Wright Settlement, which dated to the late 1780's. A small housing subdivision with more than 100 lots had been established in the mid 1930's in the area northwest of Building 101.

During World War II, activities at the Depot centered on engine repair and maintenance, and associated training. Buildings associated with engine repair and maintenance included B-104, B-106, and B-302. These activities were curtailed after World War II.

In 1950 and 1951, Watson Laboratory was transferred to GAFB and became Rome Air Development Center (RADC). RADC was later renamed Rome Laboratory and currently is known as Rome Research Site. Research projects at RRS have generally been related to communication systems including radar system reliability, electronic countermeasure and electronic counter-countermeasure research. Hazardous materials were often utilized in past reliability research.

RRS continues to conduct research at the GBTP and at associated RRS facilities located at Stockbridge and Newport, New York. Most of the research conducted no longer involves the use of hazardous materials, but certain facilities necessary to support RRS still utilize small quantities of hazardous materials.

Building 240 was constructed in 1955 as an Aerial Reconnaissance Laboratory. Although currently B-240 is used as Electronic Research Engineering Laboratory and has undergone extensive renovations to accommodate mission changes, it is still utilized in the same manner as when it was constructed.

Building 247 was constructed in 1964 as a Reconnaissance Laboratory. In 1965, a vault was added on the north façade and another addition was added in 1968 to serve as a photography room and air conditioning unit. Building 247 is still used as a Reconnaissance Laboratory.

Building 248 was constructed in 1967 as "Vehicle Lab and Inspection Facility/ Headquarters." One of its functions was to analyze Soviet ground vehicle technology. It was subsequently used as a graphics and print production facility and an equipment testing laboratory. B-248 is currently used as office space.

3.3 Environmental Setting

GBTP is located in upstate New York, at the former GAFB in central Oneida County, immediately east of the City of Rome. Rome is 12 miles northwest of the City of Utica, the county seat for Oneida County, approximately 40 miles east of the City of Syracuse, and 250 miles northwest of New York City. The Town of Floyd abuts GBTP to the east. Abutting GBTP to the north are the Towns of Western and Lee. Lands to the north and east of GBTP are predominantly rural and residential in nature. Commercial, industrial and residential land use is generally limited to properties located to the south and west of GBTP.

RRS occupies seven land parcels at the GBTP totaling approximately 103 acres. B-240, B-247 and B-248 are situated on the northeastern portion of Parcel 1 (Figure 1.2). As indicated in Section 1.1, GLDC properties occupy the property immediately adjacent to B-240, B-247 and B-248, with the exception of a parking lot to the south. Representative photographs of the Parcel 1 Buildings are provided as Appendix A.

3.3.1 Topography and Drainage Patterns

3.3.1.1 Topography

The GBTP is situated in the Mohawk Valley lowland immediately north of the Allegheny Plateau. The Mohawk River Valley defines the northern edge of Allegheny Plateau. The land surface of the GBTP generally slopes toward the south from the highest elevations along the north and northeast sides of the GBTP. Two hills in the southern section of the GBTP interrupt the overall slope and reach elevations approaching those to the northeast. Elevations range from approximately 450 feet the along the southeast portion of GBTP to 600 feet along the northeast perimeter. The highest elevation of the hills to the south is 539 feet. Northeast of the GBTP, elevations rise to over 1,000 feet in the foothills of the Adirondack Mountains. The New York State Barge Canal and the Mohawk River to the south lie below 430 feet.

Topography at and adjacent to Parcel 1 is relatively flat with a slight southward slope toward Six Mile Creek. The elevation at Parcel 1 is approximately 480 feet.

3.3.1.2 Surface Drainage

Surface drainage at the GBTP is dominated by storm sewer systems that direct water to either Three Mile or Six Mile Creek. Both creeks eventually discharge to the New York State Barge Canal. The extreme northern portion of the GBTP drains to the Mohawk River. The extreme southern portion of the GBTP drains directly to the New York State Barge Canal. The GBTP is not located within either the 100- or 500-year floodplain with the exception of the extreme western portion along the Mohawk River.

Surface water in the vicinity of Parcel 1 is directed south through a storm sewer into Six Mile Creek. There are no retention ponds at or adjacent to Parcel 1. Roof drains discharge to dry wells located within 50 feet of the site buildings.

3.3.2 Geology and Groundwater Hydrology

3.3.2.1 Geology and Soils

Geologic formations at and near the ground surface include the Utica Shale and Pleistocene glacial deposits. Bedrock underlying the GBTP and surrounding area primarily consists of the Utica Shale. The Utica Shale is a black and gray carbonaceous, slightly fissile to massive shale that is highly fossiliferous. The Utica Shale slopes to the southwest in the northeast part of the GBTP and then toward the Mohawk River in the south and northwest of GBTP. A nearly level divide separates the latter two areas. The depth to bedrock at the GBTP ranges from ground surface in the north-northeast, to approximately 130 feet to the south.

Glacial till deposits overlie the Utica Shale throughout a majority of the GBTP. Glacio-fluvial and lacustrine clays, silts, sands, and gravel deposited in front or along the Pleistocene glaciers overlie the glacial till. The thickness of the overburden at the GBTP is generally less than 50 feet.

A total of 35 soil units have been identified at the GBTP. Most of the soils are loams and sands derived from the underlying fluvial and glacial deposits. Silts and gravels are abundant; clays are relatively minor in occurrence. The soils are generally acidic, especially in surficial layers, resulting in high corrosivity. Erosion is generally low to moderate.

3.3.2.2 Groundwater Hydrology

Groundwater generally flows southward throughout the majority of the GBTP. Groundwater beneath Parcel 1 and surrounding properties flows southward, toward Six Mile Creek.

3.4 Hazardous Substances

3.4.1 Hazardous Materials and Petroleum Products

Based on the research conducted to date, it appears likely that hazardous materials were stored within B-240 and B-248. However, other than the materials identified with respect to AOC-B248-04, (see Section 3.1.1.19), no pre-existing AFRPA EBS indicator numbers relating to this past use have been identified.

Current storage of hazardous materials at B-240 annex basement is limited to one flammable/ hazardous materials locker. Materials stored in this locker typically include paints, thinners, cleaners, lubricants, and miscellaneous sprays. It has been recommended that it should be determined if the building occupants use the materials in the lockers. If the materials are no longer used, they should be removed and disposed of properly.

Inspection of B-248 indicated the presence of several thermostats that may contain mercury installed at various locations throughout the building. It is also possible that the building may contain mercury light switches. A variety of abandoned HVAC equipment remains in the basement of B-240. Several control panels associated with these systems contain mercury switches, none of which appear likely to cause an imminent mercury release. According to interviews with building occupants, no storage of hazardous materials is typically conducted in the building.

A total of two active aboveground storage tanks are in service at Parcel 1. One tank is a 100-gallon aboveground storage tank (AST) located on the building exterior immediately northwest of Building 247. This AST serves B-240's emergency generator and stores diesel fuel. The remaining tank is a 275-gallon AST that stores hydraulic fluid for the elevator hydraulic system for B-240. This tank is located in the southeast corner of the B-240 basement.

3.4.1.1 Petroleum Storage On Surrounding Properties

According to the AFRPA's EBS several petroleum bulk storage tanks are located on surrounding properties. These findings are documented in Appendix E, AFRPA Information Summary. None of these tanks appears to have significance to conditions within Parcel 1.

3.4.2 Hazardous and Petroleum Waste

3.4.2.1 Petroleum Waste

No indications of ongoing improper handling or disposal of petroleum-contaminated materials have been indicated by the research, inspections and testing conducted for this EBS. Additional information relating to petroleum wastes may be found at Section 2.1.1.2.5, NYSDEC Reported Spill Incidents and Section 3.11, Solid Waste.

3.4.2.2 Hazardous Waste

RRS generates hazardous waste, but does not store, treat or dispose any such wastes. All wastes generated are temporarily staged at the designated waste initial accumulation point (IAP) or accumulation point. Accumulated wastes are periodically picked up by Defense Marketing and Reutilization Office (DRMO) contractors for proper disposal off site. Generation of hazardous waste occurred at Parcel 1 during EBS corrective action procedures as summarized in Section 3.1.1. Further details of the corrective action procedures can be found in Appendices G3 and G4 of this report.

3.5 Installation Restoration Program Contamination

Documented Installation Restoration Program (IRP) and related environmental findings associated with Parcel 1 and surrounding properties are tabulated in Appendix E, AFRPA Information Summary. This information has been extracted from the AFRPA's current EBS for the GBTP.

The most significant of the USEPA research findings may be the fact that the entire GBTP (GAFB) facility is listed as a National Priorities List (NPL) Site. The information provided in Appendix E will be updated in the future, as necessary. It is noted that since much of the EPA-mandated clean-up has been completed, the AFRPA has formally requested that the GBTP site be removed from the NPL. As of January, 2004, the GBTP remains on the NPL.

Phase I EBS research and Phase II EBS sampling and testing to date have not indicated the presence of contamination on the site requiring handling under the Installation Restoration Program. To date, significant environmental impacts to the Parcel 1 property relating to documented IRP sites have not been indicated. It should be noted that potential groundwater contamination issues are considered to be covered by the AFRPA, and are specifically excluded from this EBS.

3.6 Storage Tanks

3.6.1 Aboveground Storage Tanks

As indicated in Section 3.4.1, a total of two active aboveground storage tanks (AST) are in service at Parcel 1. One of the tanks is a 100-gallon AST located on the building exterior immediately northwest of Building 247. This AST serves B-240's emergency generator and stores diesel. The remaining tank is a 275-gallon AST that stores hydraulic fluid for the elevator hydraulic system for B-240. This tank is located in the southeast corner of the B-240 basement.

3.6.2 Underground Storage Tanks

No past or present underground storage tanks have been documented with respect to Parcel 1.

3.6.3 Pipelines, Hydrant Fueling and Transfer Systems

During its period of active operation, GAFB maintained an extensive system of underground petroleum pipelines, hydrant fueling systems, salvage pits and transfer systems. According to information reviewed to date, the nearest petroleum pipelines to Parcel 1 were located approximately 2,000 feet east of the Parcel 1 property. This system was known as the Aqua Pipeline Fuelling System. In 1998 and 1999, AFRPA conducted an extensive decommissioning procedure for portions of this system. Follow-up sampling and testing by AFRPA indicated that residual contamination had been appropriately remediated.

3.7 Oil/Water Separators

No oil/water separators have been documented on, or immediately adjacent to the Parcel 1 property.

3.8 Pesticides

Lawn maintenance, including the routine application of typical lawn chemicals, is conducted under contract. Pesticides are not reportedly stored at Buildings 240, 247 and 248. The fact that Buildings 240, 247 and 248 are predominantly masonry structures does not suggest that chlordane or other widely used pesticides would have been used at Parcel 1 to prevent infestations by termites and other wood-consuming pests. No environmental concerns related to pesticides have been identified at Parcel 1.

3.9 Medical or Biohazardous Waste

Records review did not indicate generation, storage or disposal of medical or biohazardous wastes at Parcel 1. No environmental concerns associated with medical or biohazardous waste have been identified with respect to Parcel 1.

3.10 Ordnance

Records reviewed to date do not indicate that Parcel 1 was used for armament storage. At the present time, no environmental concerns relating to ordnance have been identified with respect to Parcel 1.

3.11 Radioactive Wastes

Research and site inspection work have not indicated the presence of radioactive wastes at Parcel 1. No environmental concerns associated with radioactive wastes or radioactive materials have been identified at Parcel 1.

3.12 Solid Waste

Solid waste is generated at the Parcel 1 property in the form of household-type trash. Solid wastes generated include kitchen and sanitary wastes, typical office refuse, used electrical components, and similar non-regulated wastes. No indications of improper handling or disposal of such materials has been indicated with respect to Parcel 1.

3.13 Groundwater

No detailed evaluation of groundwater conditions at Parcel 1 has apparently been conducted to date. The presence of a multitude of potential sources of groundwater contamination at the GBTP indicates the likelihood that groundwater on the property may include elevated levels of contaminants including chlorinated and non-chlorinated volatile organics, metals, semi-volatile organics, PCBs and pesticides. No groundwater monitoring wells are known to be located on the Parcel 1 property at the present time. AFRPA is conducting on-going research on groundwater contamination at the GBTP facility.

3.14 Wastewater Treatment, Collection and Discharge

3.14.1 Septic Systems

Based on the research conducted to date, no septic systems have been identified at, or in the immediate vicinity of the Parcel 1 property.

3.14.2 Dry Wells

Based on the research conducted to date, seventeen dry wells have been identified within the Parcel 1 property. These dry wells, discussed in Sections 3.1.1.9 and 3.1.1.18, have been determined to represent no significant environmental concern at the present time.

3.14.3 Floor Drains and Sanitary Waste

The building plan review and subsequent inspection of the basement beneath the original B-240 revealed 27 floor drains and 7 sumps. Based on available information, all of the floor-drains discharge to sumps. The majority of concerns associated with AOC-B240-02 were eliminated when the sumps were cleaned for inspection during Phase II EBS portion of this project in 2001 (Section 3.1.1.2). Remediation of residual PCBs detected at Sump #2 occurred during corrective action procedures in 2002.

3.15 Drinking Water Quality

The building is connected to the water supply system serving the GBTP. No significant concerns relating to water quality have been identified.

3.16 Asbestos

An asbestos survey was conducted for B-240, B-247 and B-248 in 1995, which included sampling and laboratory analysis of suspected asbestos containing materials (ACM) at various locations throughout the building. As indicated in Section 3.1, limited asbestos abatement work was also conducted as part of this EBS. Relevant documentation relating to abatement and sampling is provided in Appendix G3 and Appendix G5. The 1995 survey findings are included as Appendix H. The 1995 survey includes all relevant asbestos-related information required for disclosure in accordance with AFI 32-7066.

3.17 Polychlorinated Biphenyls

Based on discussions with RRS personnel and record plan review, no PCB-containing transformers have been confirmed to be present at Parcel 1. One liquid-filled switch is located on the east wall of the B-240 Annex basement. This switch reportedly contains PCBs, but is located in an area with restricted access. No leakage was observed from this switch during site inspection procedures. Additional detailed information on PCBs at Parcel 1 may be found in Appendix G.

It is noted that Building 248 contains fluorescent light fixtures. Each of these fixtures appears to have the potential for the presence of PCB-containing ballast. These units can be disposed of as Universal Wastes.

The basement of B-240 includes numerous electrical switches and research-related electronic systems. These locations may include small capacitors or other components with the potential to contain PCBs. No leakage of PCBs has been indicated at any of these systems.

At the present time, no issues relating to releases or exposure of building occupants appear to exist with respect to PCBs at Parcel 1.

3.18 Radon

A total of seven radon samples were obtained in B-240, two radon samples were obtained from B-247 and two samples were obtained from B-248. Radon sample analytical results are presented in Table 3.18.

Table 3.18
Radon Sampling Results

Sample No.	Location	Concentration
BUILDING 240		
916394	Fan Room #2 NE Corner	1.6
916395	Center of Annex S. Well	0.6
916393	Fan Room #1 NW Corner	2.8
916379	Basement Area 24B	1.5
916392	Basement Area 20B	0.2
916378	Basement Area 7C	<0.2
916377	Basement Area 2B	0.5
BUILDING 247		
916387	Room 17	0.2
916386	Room 2 east side	0.6
BUILDING 248		
916380	Southeast Corner	1.2
916377	Northwest Corner	1.0

Concentrations represented as pCi/l
The USEPA Action Limit for Radon is 4.0 pCi/l

3.19 Lead Based Paint

Site buildings and facilities were inspected for the presence of suspect lead based paint (LBP) surface coatings. Samples of suspected LBP observed in deteriorated condition were obtained from homogeneous areas of surface coatings at B-240, B-247 and B-248. Homogeneous areas of suspect materials included both interior and exterior surfaces of the site buildings. Only accessible interior surfaces were sampled.

Sampling has indicated the presence of lead based paint on interior building surfaces. The results of LBP sampling are summarized in Appendix G1.

4.0 FINDINGS FOR ADJACENT PROPERTIES

4.1 Land Uses

General land uses in the vicinity of Parcel 1 currently consist of office buildings and maintenance shops. Brief descriptions of adjacent land uses of potential significance are summarized in Table 4.1.

Table 4.1
Adjacent Land Use

Adjacent Facility	Location Relative to B-240/247/248	Known Present/ Past Use(s)	Apparent Relevance to B-240/247/248
B-232	Approximately 200 feet southeast	Single family residential	Potential subsurface contamination upgradient and/or crossgradient relative to B-240, B-247 and B-248
B-231 and B-259	Approximately 150 feet east	Single family residential	Potential subsurface contamination upgradient and/or crossgradient relative to B-240, B-247 and B-248
B-245	Approximately 450 feet northwest	Present - Electrical equipment storage/ Past -Recreational (MWR) Supply	Potential subsurface contamination upgradient and/or crossgradient relative to B-240, B-247 and B-248

The properties surrounding, and in the general vicinity of Parcel 1 site were inspected for indications of potential environmental significance to the subject site to the extent possible. Visual evaluation focused on the potential presence of industrial facilities, chemical and/or petroleum bulk storage, stained soils and stressed vegetation and other indications of potentially significant past or present activities or operations. No overt visual indications of apparent concern were identified in the area of Parcel 1.

4.2 Surveyed Properties

As indicated in Section 1.1, property immediately surrounding and abutting Parcel 1 is owned by the OCIDA and managed by GLDC. This EBS focused on the RRS-owned property associated with Parcel 1. This RRS-owned property includes the 7.897 acres of land comprising Parcel 1 itself.

5.0 APPLICABLE REGULATORY COMPLIANCE ISSUES

Applicable regulatory compliance issues related to hazardous and contaminated materials may be segregated into two types:

Type 1 Areas of the property which, in their present state, are currently in violation of applicable environmental regulations.

Type 2 Areas of the site which are not presently in violation of applicable regulations, but changes in site use or disturbance of environmental media, could result in potential violations.

Regulatory compliance issues are the rationale used for identification of EBS AOC at Parcel 1. The focus of the present assessment is on Type 1 issues due to the fact that the project objective of the EBS is determining the current environmental condition of the site. Type 2 compliance issues will be addressed as the conditions become known and may apply to future uses of the site.

5.1 List of Compliance Issues

Table 5.1 includes all environmental compliance issues with current relevance to the environmental condition of Parcel 1.

Table 5.1
Environmental Compliance Issues

EBS AOC or Significant Finding	Known or Potential Compliance Issues	Applicable Regulations
AOC-B240-01, Chiller Solution Tanks	Proper removal and disposal of hazardous and contaminated materials and asbestos has been completed.	None
AOC-B240-02, Basement Floor Drains and Sumps	Proper removal and disposal of contaminated materials has been completed. Confirmatory sampling indicates no residual contamination requiring corrective action associated with this AOC.	None
AOC-B240-03, B-240 Elevator Shaft	Proper removal and disposal of contaminated materials has been completed. Confirmatory sampling indicates no residual contamination requiring corrective action associated with this AOC.	None

Table 5.1
Environmental Compliance Issues

EBS AOC or Significant Finding	Known or Potential Compliance Issues	Applicable Regulations
AOC-B240-04, Oil Stained Areas in the Basement	Proper removal and disposal of contaminated materials has been completed. Confirmatory sampling indicates no residual contamination requiring corrective action associated with this AOC.	None
AOC-B240-05, Caged Storage in Basement	None	None
AOC-B240-06, Abandoned Oils and Miscellaneous Materials	None	None
AOC-B240-07, Open Pits at Basement Load Centers	None	None
AOC-B240-08, Former Building Uses	None	None
AOC-B240-09, B-240 Dry Wells	Proper removal and disposal of contaminated materials formerly located in eastern building shaftway has been completed. Associated dry well not found to be impacted. No environmental contamination indicated relative to 16 other roof drain dry wells.	None
AOC-B240-10, Locked Hatch, Southeast Corner B-240	None	None
AOC-B240-11, Stressed Vegetation along Perimeter Fence	None	None

Table 5.1
Environmental Compliance Issues

EBS AOC or Significant Finding	Known or Potential Compliance Issues	Applicable Regulations
AOC-B240-12, Building 240/247/248 Former Drum Storage Area	None	None
AOC-B247-01, Equipment Room A	None	None
AOC-B247-02, Photography Laboratory	None	None
AOC-B247-03, Stained Floor Mechanical Room	None	None
AOC-B248-01, Stained Floor Mechanical Room	None	None
AOC-B248-02, Floor Drains and Acid Neutralization Sump	Proper removal and disposal of contaminated materials has been completed. Confirmatory sampling indicates no residual contamination requiring corrective action associated with this AOC.	None
AOC-B248-03, B-248 Dry Wells	None	None
AOC-B248-04, Abandoned Hazardous Materials	Proper removal and disposal of hazardous materials has been completed. No indications of environmental contamination requiring corrective action remain with respect to this AOC.	None
Groundwater	Possible groundwater contamination from numerous off site sources.	6 NYCRR Part 703
Lead-Based Paint	Paint containing detectable levels of lead is located throughout B-240, B-247 and B-248.	29CFR Part 1926.16

Table 5.1
Environmental Compliance Issues

EBS AOC or Significant Finding	Known or Potential Compliance Issues	Applicable Regulations
Asbestos	Asbestos containing materials are located throughout B-240, B-247 and B-248.	29CFR Part 1910 40 CFR Part 61
Mercury-Containing Building Components	Mercury containing thermostats, light switches, abandoned HVAC systems, fluorescent bulbs and lamps.	40 CFR Part 273 Universal Wastes
PCB-Containing Building Components	PCB-containing ballasts in fluorescent light fixtures, liquid-filled switch in B-240 Annex basement and potential PCB-containing electronic components.	40 CFR Part 273 Universal Wastes

5.2 Description of Corrective Actions

During the corrective action phases of this project, wastes and contaminated soils were removed and properly disposed. Corrective actions are documented in the memoranda provided as Appendix G3 and G4. No other corrective actions have been documented with respect to Parcel 1.

6.0 CONCLUSIONS

6.1 Facility Matrix

Based on the findings of the Phase I and Phase II EBS work conducted for Parcel 1 to date, AOCs have been categorized to appropriately characterize the property in accordance with AFI 32-7066. As described in Section 1.0 of the EBS, each location on the site has been categorized under one of seven designations, Category 1 through 7 during the process of completing this EBS. Categories currently relevant to the findings of this EBS are:

Category 1 – Areas where no release or disposal of hazardous or petroleum substances has occurred (including no migration of these substances from adjacent areas).

Category 2 – Areas where only release or disposal of petroleum substances has occurred.

Category 3 – Areas where release, disposal and/or migration of hazardous substances has occurred, but concentrations that do not require removal or remedial response.

Category 4 – Areas where release, disposal and/or migration of hazardous substances has occurred, and all removal or remedial actions have been taken.

Property in Categories 1 through 4 is considered suitable for transfer by deed. Property in Categories 5 through 7 would be unsuitable for transfer by deed until all necessary actions have been taken and the property has been reclassified into one of the first four categories. Property in all seven categories is considered suitable for lease.

6.2 Property Categories Map

Table 6.1 summarizes the categories of Parcel 1 AOCs and portions of the property not requiring AOC designation.

Table 6.1
Property Designations

EBS AOC	Current EBS Category	Work Conducted and General Findings
AOC-B240-01, Chiller Solution Tanks	Category 4	Proper removal and disposal of hazardous and non-hazardous wastes and asbestos has been completed. Confirmatory sampling indicates no residual contamination requiring corrective action associated with this AOC.
AOC-B240-02, Basement Floor Drains and Sumps	Category 4	Proper removal and disposal of contaminated materials has been completed. Confirmatory sampling indicates no residual contamination requiring corrective action associated with this AOC.
AOC-B240-03, B-240 Elevator Shaft	Category 4	Proper removal and disposal of contaminated materials has been completed. Confirmatory sampling indicates no residual contamination requiring corrective action associated with this AOC.
AOC-B240-04, Oil Stained Areas in the Basement	Category 4	Proper removal and disposal of contaminated materials has been completed. Confirmatory sampling indicates no residual contamination requiring corrective action associated with this AOC.
AOC-B240-05, Caged Storage in Basement	Category 1	Sampling and testing did not indicate environmental concerns requiring corrective action associated with this AOC.

Table 6.1
Property Designations

EBS AOC	Current EBS Category	Work Conducted and General Findings
AOC-B240-06, Abandoned Oils and Miscellaneous Materials	Category 1	Proper removal and disposal of contaminated materials has been completed Sampling and testing did not indicate environmental concerns requiring corrective action associated with this AOC.
AOC-B240-07, Open Pits at Basement Load Centers	Category 1	No indications of environmental contamination have been identified with respect to this AOC.
AOC-B240-08, Former Building Uses	Category 3	No indications of environmental contamination requiring corrective action have been identified with respect to this AOC.
AOC-B240-09, B-240 Dry Wells	Category 4	Proper removal and disposal of contaminated materials has been completed. Sampling and testing did not indicate environmental concerns requiring additional corrective action associated with this AOC.
AOC-B240-10, Locked Hatch, Southeast Corner B-240	Category 1	No indications of environmental contamination have been identified with respect to this AOC.
AOC-B240-11, Stressed Vegetation along Perimeter Fence	Category 3	Sampling and testing did not indicate environmental concerns requiring corrective action associated with this AOC.
AOC-B240-12, Building 240/247/248 Former Drum Storage Area	Category 1	No indications of environmental contamination requiring corrective action have been identified with respect to this AOC.
AOC-B247-01, Equipment Room A	Category 1	No indications of environmental contamination requiring corrective action have been identified with respect to this AOC.

Table 6.1
Property Designations

EBS AOC	Current EBS Category	Work Conducted and General Findings
AOC-B247-02, Photography Laboratory	Category 3	Sampling and testing did not indicate environmental concerns requiring corrective action associated with this AOC.
AOC-B247-03, Stained Floor Mechanical Room	Category 2	Sampling and testing did not indicate environmental concerns requiring corrective action associated with this AOC.
AOC-B248-01, Stained Floor Mechanical Room	Category 2	Sampling and testing did not indicate environmental concerns requiring corrective action associated with this AOC.
AOC-B248-02, Floor Drains and Acid Neutralization Sump	Category 4	Proper removal and disposal of contaminated materials has been completed. Confirmatory sampling indicates no residual contamination requiring corrective action associated with this AOC.
AOC-B248-03, B-248 Dry Wells	Category 1	No indications of environmental contamination have been identified with respect to this AOC.
AOC-B248-04, Abandoned Hazardous Materials	Category 4	Proper removal and disposal of hazardous materials completed by RRS IFOCV. No indications of environmental contamination requiring corrective action have been identified with respect to this AOC

6.3 Resources Map

A map of Parcel 1 AOC locations and categories is provided as Figures ES-1 and ES-2.

6.4 Data Gaps

Requirements for additional investigation and/or cleanup are driven by applicable regulations and the provisions of AFI 32-7066. Activities necessary for closure in areas of the site requiring additional work are listed in Table 6.1, Property Designations. The potential exists for discovery of compliance issues and/or requirements for cleanup that are unknown at the present time.

In addition to environmental compliance issues related to current site status and conditions, asbestos and lead based paint must also be considered for potential future significance. RRS has not completed a pre-demolition survey for asbestos containing materials in accordance with NYSDOH Industrial Code Rule #56.

Groundwater conditions at and in the vicinity of Parcel 1 have not yet been completely assessed.

7.0 RECOMMENDATIONS

The following recommendations are presented with respect to re-use:

Groundwater
It is recommended that on-going review be continued as to potential groundwater contamination at Parcel 1 and throughout RRS properties at the GBTP.

Soils
If future renovations or other site work will involve significant excavation, a soils management plan should be developed to assure proper handling of potentially contaminated soils and address potential worker health and safety issues.

EBS Findings
It is recommended that all current EBS findings and subsequent environmental work be fully disclosed to parties involved prior to release of the Parcel 1 property.

Asbestos
It is recommended that all known locations of asbestos remaining on site be fully disclosed to future property owners or lessees.

Lead Based Paint

It is recommended that all known locations of lead based paint remaining on site be fully disclosed to future property owners or lessees. The potential presence of lead based paints on surfaces not yet sampled as part of the EBS should be taken into account with respect to protection of workers and the possibility of hazardous waste generation.

Mercury-Containing Building Components

It is recommended that the presence of mercury-containing building components in Parcel 1 be disclosed to future property owners ore lessees.

PCB-Containing Building Components

It is recommended that the documented and potential presence of PCB-containing building components in Buildings 240, 247 and 248 be disclosed to future property owners or lessees.

Dry Wells

It is recommended that RRS implement procedured requirements to prevent the use or storage of hazardous materials in roof areas connected to site dry wells.

8.0 CERTIFICATIONS

Lu Engineers has conducted this Environmental Baseline Survey on behalf of the United States Air Force. Lu Engineers has reviewed all appropriate records made available, and conducted visual site inspections of the selected facilities following an analysis of information during the record search. The information containing within the survey report is based on records made available and, to the best of Lu Engineers' knowledge, is correct and current as of the dates indicated below.

Certified by: _____ Date: 2/26/04

Gregory L. Andrus, CHMM
Project Manager

Approved by: _____ Date: 27 Feb 04

Bruce H. Mero, REM
Chief, Environmental, Safety and
Occupational Health Office
AFRL/IF

APPENDIX A

REPRESENTATIVE PHOTOGRAPHS

ENVIRONMENTAL BASELINE SURVEY
PARCEL 1, ROME RESEARCH SITE
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
EBS Parcel 1 – Rome Research Site

DATE
Circa 1980

SUBJECT
Aerial view of Parcel 1 from the northwest. All current buildings visible, but road and parking lot configuration has been modified since this photograph was taken. Many of the buildings located to the east of Parcel 1 have also been removed.

LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
EBS Parcel 1 – Rome Research Site

DATE
1999

SUBJECT
Building 240 view from southeast.

LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
EBS Parcel 1 – Rome Research Site

DATE
1999

SUBJECT
Rear view of Building 240 (from north) with Annex and associated HVAC system in foreground.

LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
EBS Parcel 1 – Rome Research Site

DATE
1999

SUBJECT
Building 247 viewed from the northeast. Building 240 visible behind Building 247. Building 248 visible at far right.

LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
EBS Parcel 1 – Rome Research Site

DATE
1999

SUBJECT
Building 248 viewed from the north. Building 247 visible behind Building 248. Building 240 visible behind Building 247.

APPENDIX B

REFERENCES

ENVIRONMENTAL BASELINE SURVEY
PARCEL 1, ROME RESEARCH SITE
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

ROME RESEARCH SITE
ENVIRONMENTAL BASELINE SURVEY
GRIFFISS PROPERTIES
PARCEL 1

REFERENCES

Aerial Photograph Review (various), Air Force Base Conversion Agency, Rome Research Site, Rome, New York, 1938 - Present.

Cadwell, D.H., G.G. Connally, R. Dimeen, P. Fleisher and J. Rich, *Surficial Geologic Map of New York, Hudson-Mohawk Sheet*, The University of the State of New York, State Education Department, 1987.

Ecology and Environment, Incorporated, *Basewide Environmental Baseline Survey Update, Griffiss Air Force Base, Rome, New York, Volumes I & II*, July 1996.

Ecology and Environment, Incorporated, *BRAC Cleanup Plan, Griffiss Air Force Base, Rome, New York, Volumes I & II*, January 1998.

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Eco-Search, Incorporated, Environmental Database Search Report, Rome Research Site, Rome, New York, April, 2000.

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Rome Research Site, *Air Emissions Statement, Rome, New York*, 2000.

Rome Research Site, *Spill Prevention, Control and Countermeasure Plan, Rome, New York*, 2000.

Air Force Base Conversion Agency, Mark Rabe, Personal communication with Greg Andrus, Lu Engineers, 2000-2002.

Air Force Research Laboratory/Rome Research Site, Bruce H. Mero, Personal communication with Greg Andrus, Lu Engineers, 2000-2003.

Air Force Research Laboratory/Rome Research Site, Michael J. Bamberger, Personal communication with Greg Andrus, Lu Engineers, 2000-2003.

Air Force Research Laboratory/Rome Research Site, Frederick V. Conover, Personal communication with Greg Andrus, Lu Engineers, 2000-2003.

Air Force Research Laboratory/Rome Research Site, Tony Ariole, Personal communication with Greg Andrus, Lu Engineers, 2000-2002.

United States Air Force, Air Force Research Laboratory/Rome Research Site, Building 302 Plans (various), 1943 – Present (see full list below).

Air Force Research Laboratory/Rome Research Site, Contracting and Procurement Files (various), 1955 - 1980.

United States Environmental Protection Agency, World Wide Web Sites at:
www.epa.gov/region02/superfun.htm
www.epa.gove/ERNS/docs/data.html
www.ntis.gov
www.epa.gov

United States Geological Survey, *Rome, New York*, 7.5 Minute Series Topographic Quadrangle, 1955.

VanDiver, Bradford B., *Roadside Geology of New York*, Mountain Press Publishing Company, Missoula, Montana, 1985.

Building plans reviewed as part of project planning:

Drawing #	Date	Name
240-M-59	2/8/72	Griffiss Air Force Base Electronic research lab addition Bldg. 240 plumbing and drainage
240-M-58	2/8/72	Griffiss Air Force Base Electronic research lab addition Bldg. 240 control system

240-M-57	2/8/72	Griffiss Air Force Base Electronic research lab addition Bldg. 240 miscellaneous piping system and equipment connection
240-M-56	2/8/72	Griffiss Air Force Base Electronic research lab addition Bldg. 240 Basement of Bldg. #240 connecting to existing services
240-M	2/8/72	Griffiss Air Force Base Electronic research lab addition Bldg. 240 Basement mechanical equipment
240-M-53	2/8/72	Griffiss Air Force Base Electronic research lab addition Bldg. 240 utilities plan profiles and details
240-C-21	1/1/89	Griffiss Air Force Base, Rome NY alter tempest secure intelligence labs building 240 annex & vault 918 site plan
247-E-6	2/18/89	Reconnaissance Exploit lab addition electrical site plan
247-E-10	2/18/89	Reconnaissance Exploit lab addition electrical misc. details
247-E-8	10/3/73	Reconnaissance Exploit lab addition electrical lighting & alarm systems
240-M-31	3/26/56	Installation of freight elevator in aerial recon lab mechanical & electrical
240-M-18	1/18/84	Building 240 computers annex upgrade air conditioning proposed basement plan
A-1	3/4/73	Storm drainage disposal system
PL-121	7/14/80	parking lot details #1,2,&3
U-8	5/10/43	Rubber Repair building 103 plot plan, water, sewer, and gas
TD-2036	6/27/90	Tank Removal #2 (no scale)
GE-2	8/12/65	Foundation Exploration
F-3	4/4/42	Fences and Gates industrial area and misc. general layout
R-270	7/28/43	Plot plan warehouses #3,4 & 7
240-M-68	6/18/84	Bldg. 240 computer annex upgrade air conditioning proposed basement plan
4-16	7/14/71	lab 240 plot plan utilities
4-38	11/17/55	lab 240 hatchway & dry wells
240-M-1	10/24/58	Air defense lab bldg. C basement plan plumbing
240-M-6	4/2/56	Air defense lab bldg. C riser diagram plumbing Bldg. 240 first floor
240-A-1	10/30/52	Air defense lab Bldg. C first floor plan arch
240-A-2	7/8/52	Air defense lab Bldg. C basement plan arch
240-A-3	10/30/52	Air defense lab Bldg. C first floor plan arch
240-A-4	10/3/55	Air defense lab Bldg. C 2nd floor plan arch

240-A-5	11/25/58	Air defense lab Bldg. C ref 3rd floor plan arch
240-A-6	12/11/58	Air defense lab Bldg. C rot plan arch
240-A-12	11/14/55	Air defense lab Bldg. C typical existing wall details arch
240-A-16	11/18/55	Air defense lab bldg. A,C,D typical ceiling details No. 1
240-A-22	3/26/56	Installation of Freight elevator in aerial recon lab floor plans and sections
240-A-25	7/17/59	Resurface root building 240
240-A-29	1/3/84	Bldg. 240 basement plan
240-A-30	10/28/68	modify entry area bldg. #240 floor plans, elevations details arch
240-A-35	2/8/72	Electric research lab addition bldg. 240 first floor plan
240-A-37	2/13/76	Electric research lab addition bldg. 240 ground floor plan
240-A-47	12/18/72	Extended Vault 3rd floor bldg. 240 plan & details
240-A-49	12/14/76	Upgrade Program Review Facility bldg. 240 floor plans and sections and details arch
240-A-51	10/23/78	Emergency Repair root bldg. 240 plan and details
240-A-155	1/6/55	Building A,C,D Typical window and metal partitions
240-C-17	2/8/72	Electronic Research lab additions bldg. 240 basement and foundation plan
240-C-21	1/1/89	Alter Tempest Secure Intelligence labs bldg. 240 annex & vault 9/8 site plan
240-E-3	1/6/55	Building C light and Power Basement floor plan
240-E-8	1/6/55	Building C under floor duct first floor plan electric
240-E-16	2/9/53	Building C riser diagrams plot plan and distribution details
240-E-57	2/22/81	SDDE fiber optics cable way plans & details
240-E-65	7/17/81	Restore Rm. 180 bldg. 240 electrical plans
240-M-2	11/21/75	Building C first floor plan plumbing
240-M-3	1/19/69	Building C second floor plan plumbing
240-M-4	3/30/56	Building C third floor plan plumbing
240-M-19	6/18/84	Bldg. 240 computer annex upgrade air conditioning details
240-M-31	3/26/56	Installation of freight elevator aerial reconnaissance lab mechanical and electrical
240-M-52	2/8/72	Electronic research lab additions bldg. 240 utilities plan profiles and details
240-M-41	1/19/68	Photo Materials lab bldg. 240 rm. 243 arch electrical and mechanical plan and details
240-M-59	2/8/72	Electronic research lab additions bldg. 240 plumbing and drainage

240-M-65	6/28/83	Air Conditioning speech research lab B/240 mechanical plans and details
240-M-66	6/18/84	Bldg. 240 computer annex upgrade air conditioning existing first floor plan
247-A-4	11/29/76	Recon Exploit lab addition general construction floor plan and schedules
247-A-5	11/15/68	Recon Exploit lab addition general construction elevations
247-A-13	10/24/72	Vault Modification Bldg. 247 floor plan and detail
247-A-14	7/14/77	Relocate Graphics and photo lab B- 247 and 248 arch plan and details
247-C-6	2/18/69	Recon Exploit lab addition general construction site plan
247-C-7	11/15/68	Recon Exploit lab addition general construction foundation plan and sections
247-E-5	6/14/67	Support facility scene bldg. 240 & 247 plans and details
247-E-10	2/18/69	Recon Exploit lab addition electrical miscellaneous details
247-M-1	3/10/69	TAC Reconnaissance facility plumbing layout and details
247-M-3	5/20/63	TAC Reconnaissance facility heating and air conditioning
247-M-6	11/15/68	Recon Exploit lab addition site and utilities plan
247-M-7	7/14/75	Recon Exploit lab addition heating and plumbing plans and details
247-M-17	4/1/77	Relocate Graphics and photo lab B- 247 and 248 mechanical and details B/248 heating
247-M-18	11/13/79	Install Fume exhaust system bldg. 247
247-M-32	4/1/80	Shield 1327 vault B/247 halon system
247-M-44	11/18/86	Removals Bldg. 247 mechanical room plan
TD-1862-M1	7/25/86	Mechanical plan
247-M-15	4/1/77	Relocate graphics & photo lab B-247/248 plumbing plan & details
RADC-21	6/14/85	Bldg. 247/248
247-A-1	11/5/63	TAC Reconnaissance Facility floor plan elevation and sections
248-A-1	3/28/73	Floor & location plan mobile wing facility project GRI-178-6
248-A-6	7/24/87	Location plan floor plan, elevations, and details
247-C-1	11/4/63	TAC Reconnaissance facility plot plan
248-C-2	7/7/67	Air Condition mobile wing facility misc. plans & details
248-M-1	3/30/73	Mobil wing facility plumbing project GRI-178-6

240-A-36	2/8/72	Electronic Research lab addition Bldg. 240 basement & roof plan
R-7	2/18/43	Roads, sidewalks & gutters road pavements Industrial area detail plan No. 2
R-6	2/18/43	Roads, sidewalks & gutters road pavements Industrial area detail plan No. 1
R-4	2/18/43	Roads, sidewalks & gutters road pavements Industrial area misc. connections
R-2	2/17/43	Roads, sidewalks & gutters road pavements Industrial area general layout
R-3	2/17/43	Roads, sidewalks & gutters road pavements Industrial area plan of Industrial area
R-1	10/2/68	Master plan road & railroad plan Griffiss air force base
R-54	1/6/55	plan & detail of parking lot & access road
R-67	8/6/62	Repair parking lots base layout & details
R-79	5/10/61	Rehab streets base rehab donaldson Rd. layout & details
26-A	7/16/42	A.C. Oil storage and dispensing system plans, elevations, electrical layout, & detail
26-M	7/18/42	A.C. Oil storage and dispensing system structural and mechanical details
R-2		Roads, sidewalks road pavement general layout
17-A-2	4/1/43	Warehouse No. 17 masonry plans elevations & details
26-A-2	1/15/44	A.C. Oil storage and dispensing system addition
TD-1675	1/21/85	Remove Contaminated Soil Bldg. 3 site plan & details
R-95	10/8/65	Seal/Repair parking lots plan & details
R-30	8/16/43	Additional roads and parking areas misc. roads, walks & area
R-28	8/16/43	Additional roads and parking areas "G" street No. 1
R-11	2/19/43	Roads sidewalks and gutters road pavements industrial area detail plan No. 6
R-9	2/20/43	Roads sidewalks and gutters road pavements industrial area detail plan No. 4
3-E-117	6/1/93	Replace PCB transformer various sites
	8/18/86	Building 26 removals
R-116	5/13/58	Rehab parking area depot #1 layout and details
R-8	2/18/43	Roads, sidewalks and gutters road pavements Industrial area detail plan No. 3
240-E-55	11/15/80	Modify Electric distribution system Bldg. 240 annex basement plan & schedule 1,2,3
240-A-2	7/8/52	Air Defense lab Bldg. C basement plan
240-A-29	1/3/84	Building 240 basement plan
240-O-2	6/29/68	Air Conditioning Computer RM Bldg. 240 site plan, key plan drawing schedule and detail

240-C-3	10/31/55	Building C foundation plan
240-C-6	1/6/55	Building C foundation details No. 2
240-C-4	8/5/53	Building C foundation details No. 1
240-E-1	12/28/51	Building C primary distribution system basement floor plan
240-E-2	12/28/51	Building C conduit distribution system basement floor plan
240-E-3	12/28/51	Building C light & power basement floor plan
240-E-43	6/1/80	Install motor generator Bldg. 240
240-M-1	10/24/53	Building C basement plan
240-M-7	12/1/5 5	Building C details plumbing
240-M-9	12/6/5 5	Building C H&V basement plan
240-M-9a	8/6/68	Modification of 2nd floor and basement Bldg. No. 240
240-M-10	1/6/55	Building C H&V basement central distribution system
240-M-31	3/26/56	Installation of Freight Elevator in Aerial Recon lab mechanical and electrical
240-M-35	10/17/62	Air Conditioning Computer RM Bldg. 240 air conditioning basement plan
240-M-38	6/29/62	Air Conditioning Computer RM Bldg. 240 basemen plan electrical, plumbing and air conditioning details

APPENDIX C

DATABASE SEARCH REPORT SUMMARY

ENVIRONMENTAL BASELINE SURVEY
PARCEL 1, ROME RESEARCH SITE
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

The EDR Radius Map
with GeoCheck®

Buildings 240, 247 and 248
Hanger Road
Rome, NY 13440

Inquiry Number: 01093231.1r

December 04, 2003

Environmental Data Resources, Inc.

***The* Source For Environmental Risk Management Data**

3530 Post Road
Southport, Connecticut 06890

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FORM-EDR

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

HANGER ROAD
ROME, NY 13440

COORDINATES

Latitude (North):	43.225400 - 43° 13' 31.4"
Longitude (West):	75.420500 - 75° 25' 13.8"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	465850.3
UTM Y (Meters):	4785716.0
Elevation:	476 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	2443075-B4 ROME, NY
Source:	USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

Proposed NPL..... Proposed National Priority List Sites
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
ERNS..... Emergency Response Notification System

STATE ASTM STANDARD

SHWS..... Inactive Hazardous Waste Disposal Sites in New York State
UST..... Petroleum Bulk Storage (PBS) Database
CBS UST..... Chemical Bulk Storage Database
VCP..... Voluntary Cleanup Agreements

EXECUTIVE SUMMARY

SWTIRE..... Registered Waste Tire Storage & Facility List
SWRCY..... Registered Recycling Facility List

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... Superfund (CERCLA) Consent Decrees
Delisted NPL..... National Priority List Deletions
FINDS..... Facility Index System/Facility Identification Initiative Program Summary Report
HMIRS..... Hazardous Materials Information Reporting System
MLTS..... Material Licensing Tracking System
MINES..... Mines Master Index File
NPL Liens..... Federal Superfund Liens
PADS..... PCB Activity Database System
US BROWNFIELDS..... A Listing of Brownfields Sites
RAATS..... RCRA Administrative Action Tracking System
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
SSTS..... Section 7 Tracking Systems
FTTS INSP..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

HSWDS..... Hazardous Substance Waste Disposal Site Inventory
AST..... Petroleum Bulk Storage
CBS AST..... Chemical Bulk Storage Database
NY Spills..... Spills Information Database
DEL SHWS..... Delisted Registry Sites

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas..... Former Manufactured Gas (Coal Gas) Sites

BROWNFIELDS DATABASES

US BROWNFIELDS..... A Listing of Brownfields Sites
Brownfields..... Brownfields Site List
VCP..... Voluntary Cleanup Agreements

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

FEDERAL ASTM STANDARD

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 07/22/2003 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
GRIFFISS AIR FORCE BASE	*DRMO/XPS DONALDSON RD,*	*0 - 1/8*	*0*	*6*

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).
CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 09/11/2003 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
GRIFFISS AIR FORCE BASE	*DRMO/XPS DONALDSON RD,*	*0 - 1/8*	*0*	*6*

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 09/17/2003 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
GRIFFISS AIR FORCE BASE	*DRMO/XPS DONALDSON RD,*	*0 - 1/8*	*0*	*6*

RCRIS: Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRIS-TSD list, as provided by EDR, and dated 09/10/2003 has revealed that there is 1 RCRIS-TSD site within approximately 0.5 miles of the target property.

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
GRIFFISS AIR FORCE BASE	*DRMO/XPS DONALDSON RD,*	*0 - 1/8*	*0*	*6*

RCRIS: Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRIS-LQG list, as provided by EDR, and dated 09/10/2003 has revealed that there is 1 RCRIS-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
GRIFFISS AIR FORCE BASE	*DRMO/XPS DONALDSON RD,*	*0 - 1/8*	*0*	*6*

RCRIS: Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRIS-SQG list, as provided by EDR, and dated 09/10/2003 has revealed that there is 1 RCRIS-SQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
USAF ROME LABORATORY - HILL RD	*32 BROOKS RD BLDG 247*	*1/8 - 1/4S*	*1*	*17*

STATE ASTM STANDARD

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
FORMER GRIFFISS AIR FORCE	153 BROOKS ROAD	1/8 - 1/4SSE	A3	24

EXECUTIVE SUMMARY

LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the LTANKS list, as provided by EDR, and dated 10/18/2003 has revealed that there are 4 LTANKS sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
USAF ROME LABORATORY - HILL RD	***32 BROOKS RD BLDG 247***	***1/8 - 1/4 S***	***1***	***17***
UST 319A	153 BROOKS RD	1/8 - 1/4 SSE	A6	223
GAFB-UST 842-2	153 BROOKS RD	1/8 - 1/4 SSE	A7	234
270 BROADWAY	270 BROADWAY	1/4 - 1/2 SW	8	236

MOSF UST: Major Oil Storage Facilities Database. Facilities are licensed pursuant to Article 12 of the Navigation Law, 6 NYCRR Part 610 and 17 NYCRR Part 30. These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater. Includes MOSF's licensed or closed since April 1, 1986, (responsibility was transferred from DOT on October 13, 1985) plus available data obtained from DOT facilities licensed since Article 12 became law on April 1, 1978.

A review of the MOSF UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 2 MOSF UST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
GRIFFISS UTILITY SERVICE CORPO	153 BROOKS RD	1/8 - 1/4 SSE	A4	24
GRIFFISS BUSINESS & TECHNOLOGY	***153 BROOKS ROAD***	***1/8 - 1/4 SSE***	***A5***	***27***

FEDERAL ASTM SUPPLEMENTAL

RODS: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
GRIFFISS AIR FORCE BASE	***DRMO/XPS DONALDSON RD,***	***0 - 1/8***	***0***	***6***

Federal Lands: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 04/01/2003 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
GRIFFISS AIR FORCE BASE (CLOSE		1/2 - 1 ENE	9	237

STATE OR LOCAL ASTM SUPPLEMENTAL

MOSF AST: Major Oil Storage Facilities Database. Facilities are licensed pursuant to Article 12 of the Navigation Law, 6 NYCRR Part 610 and 17 NYCRR Part 30. These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater. Includes MOSF's licensed or closed since April 1, 1986, (responsibility was transferred from DOT on October 13, 1985) plus available data obtained from DOT facilities licensed since Article 12 became law on April 1, 1978.

A review of the MOSF AST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 2 MOSF AST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
GRIFFISS UTILITY SERVICE CORPO	153 BROOKS RD	1/8 - 1/4 SSE	A2	18
GRIFFISS BUSINESS & TECHNOLOGY	***153 BROOKS ROAD***	***1/8 - 1/4 SSE***	***A5***	***27***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
FLOYD TRANSFER STATION	SWF/LF
CRASH'S AUTO DUMP	SWF/LF
ONEIDA-HERKIMER (ROME) TRANSFER ST	SWF/LF
UST 702	LTANKS, NY Spills
ROME LABS	LTANKS, NY Spills
BLDG 775 PUMPHOUSE 3	LTANKS
FUJI PHOTO FILM USA INC	RCRIS-SQG, FINDS
BONFARE 51103	RCRIS-SQG, FINDS
GRIFFISS AIR BASE	NY Spills
GRIFFISS AIR FORCE BASE	NY Spills
BLDG 101	NY Spills
KOZIARZ BARN FIRE	NY Spills
8581 ELMER HILL ROAD	NY Spills
GRIFFISS AIR FORCE BASE	NY Spills
GRIFFISS A.F.B.	NY Spills
GAFB BLDG. 100 OWS	NY Spills
GAFB-BLDG. 101	NY Spills
ROME STORM SEWER	NY Spills
GRIFFISS AIR FORCE BASE	NY Spills
BLDG 779 PUMPHOUSE 2	NY Spills
BLDG 773 PUMPHOUSE 4	NY Spills

OVERVIEW MAP - 01093231.1r - Lu Engineers

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone

TARGET PROPERTY:	Buildings 240, 247 and 248	CUSTOMER:	Lu Engineers
ADDRESS:	Hanger Road	CONTACT:	Paula Frumusa
CITY/STATE/ZIP:	Rome NY 13440	INQUIRY #:	01093231.1r
LAT/LONG:	43.2254 / 75.4205	DATE:	December 04, 2003 2:02 pm

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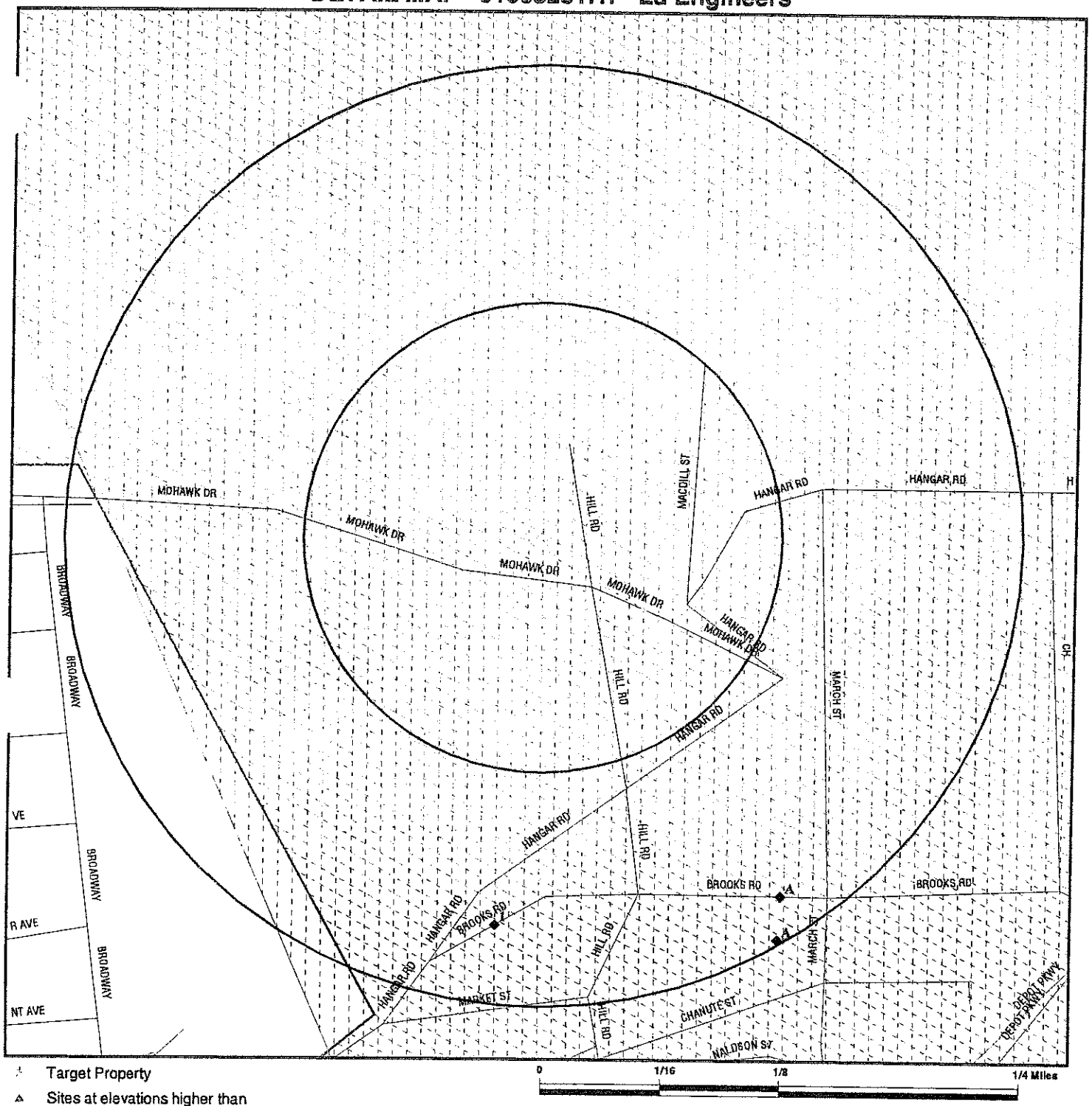
DETAIL MAP - 01093231.1r - Lu Engineers



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone

TARGET PROPERTY:	Buildings 240, 247 and 248	CUSTOMER:	Lu Engineers
ADDRESS:	Hanger Road	CONTACT:	Paula Frumusa
CITY/STATE/ZIP:	Rome NY 13440	INQUIRY #:	01093231.1r
LAT/LONG:	43.2254 / 75.4205	DATE:	December 04, 2003 2:03 pm

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		1.000	1	0	0	0	NR	1
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	1	0	0	NR	NR	1
CERC-NFRAP		0.250	0	0	NR	NR	NR	0
CORRACTS		1.000	1	0	0	0	NR	1
RCRIS-TSD		0.500	1	0	0	NR	NR	1
RCRIS Lg. Quan. Gen.		0.250	1	0	NR	NR	NR	1
RCRIS Sm. Quan. Gen.		0.250	0	1	NR	NR	NR	1
ERNS		TP	NR	NR	NR	NR	NR	0
STATE ASTM STANDARD								
State Haz. Waste		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	1	0	NR	NR	1
LTANKS		0.500	0	3	1	NR	NR	4
UST		0.250	0	0	NR	NR	NR	0
CBS UST		0.250	0	0	NR	NR	NR	0
MOSF UST		0.500	0	2	0	NR	NR	2
VCP		0.500	0	0	0	NR	NR	0
SWTIRE		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	1	0	0	0	NR	1
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	1	NR	1
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
HSWDS		0.500	0	0	0	NR	NR	0
AST		TP	NR	NR	NR	NR	NR	0
CBS AST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MOSF AST		0.500	0	2	0	NR	NR	2
NY Spills		0.125	0	NR	NR	NR	NR	0
DEL SHWS		1.000	0	0	0	0	NR	0
EDR PROPRIETARY HISTORICAL DATABASES								
Coal Gas		1.000	0	0	0	0	NR	0
BROWNFIELDS DATABASES								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
Brownfields		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0

NOTES:

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

APPENDIX D

USEPA DATABASE SUMMARY

ENVIRONMENTAL BASELINE SURVEY
PARCEL 1, ROME RESEARCH SITE
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

RCRA TSD and Generators Records Summary
AFRL/RRS Parcel 1 EBS

Referenced In:	EPA ID No:	Facility Name/ Address	RCRA Evaluation			Status:
			Date:	Number:	Agency:	
EcoSearch Database Research	NY4571924451	Griffiss Air Force Base DRMo/XPS Donaldson Road, GAFB Griffiss AFB, NY	11/20/97	1000882054	N/A	Corrective Action at the facility or area referred to CERCLA.
EcoSearch Database Research	NY4571924451	Griffiss Air Force Base DRMo/XPS Donaldson Road, GAFB Griffiss AFB, NY	07/11/97	1000882054	N/A	LQG-Violations exist/ Compliance achieved on all violations (Manifest requirements, land ban requirements, closure/ postclosure requirements)
EcoSearch Database Research	NY6570043426	USAF Rome Laboratory –Hill Rd. Fac. 32 Brooks Rd. Bldg 247 Rome, NY	N/A	1001128046	N/A	SQG – No violations found

Leaking Storage Tank Data Summary
AFRL/RRS Parcel 1 EBS

Referenced In:	Spill No:	Facility Name/ Address	Leaking Storage Tank Data			Status:
			Date:	Distance	Agency:	
EcoSearch Database Research	7900785	USAF Rome Laboratory –Hill Rd. Fac. 32 Brooks Rd. Bldg 247 Rome, NY	09/06/79	0-0.25 mile from target property	Not Reported	Corrective action taken/ Closed 09/07/79
EcoSearch Database Research	9609336	UST 319A 153 Brooks Rd. Rome C, NY	09/03/96	0-0.25 mile from target property	Federal Government	Corrective action taken
EcoSearch Database Research	9609338	UST 319A 153 Brooks Rd. Rome C, NY	09/12/96	0-0.25 mile from target property	Federal Government	Corrective action taken/ Closed 06/29/99
EcoSearch Database Research	9609341	UST 319A 153 Brooks Rd. Rome C, NY	10/08/96	0-0.25 mile from target property	Federal Government	Corrective action taken/ Closed 01/25/00
EcoSearch Database Research	9609343	UST 319A 153 Brooks Rd. Rome C, NY	10/16/96	0-0.25 mile from target property	Federal Government	Corrective action taken/ Closed 12/02/97

Leaking Storage Tank Data Summary
AFRL/RRS Parcel 1 EBS

Referenced In:	Spill No:	Facility Name/ Address	Leaking Storage Tank Data			Status:
			Date:	Distance	Agency:	
EcoSearch Database Research	9609344	UST 319A 153 Brooks Rd. Rome C, NY	10/24/96	0-0.25 mile from target property	Federal Government	Corrective action taken/ Closed 12/02/97
EcoSearch Database Research	9609345	UST 319A 153 Brooks Rd. Rome C, NY	10/21/96	0-0.25 mile from target property	Federal Government	Corrective action taken
EcoSearch Database Research	9609364	UST 319A 153 Brooks Rd. Rome C, NY	11/10/97	0-0.25 mile from target property	Federal Government	Corrective action taken
EcoSearch Database Research	9609365	UST 319A 153 Brooks Rd. Rome C, NY	11/10/97	0-0.25 mile from target property	Federal Government	Corrective action taken/ Closed 04/19/01
EcoSearch Database Research	9609366	UST 319A 153 Brooks Rd. Rome C, NY	11/10/97	0-0.25 mile from target property	Federal Government	Corrective action taken
EcoSearch Database Research	0013345	UST 319A 153 Brooks Rd. Rome C, NY	03/21/01	0-0.25 mile from target property	Federal Government	Corrective action taken

Leaking Storage Tank Data Summary
AFRL/RRS Parcel 1 EBS

Referenced In:	Spill No:	Facility Name/ Address	Leaking Storage Tank Data			Status:
			Date:	Distance	Agency:	
EcoSearch Database Research	0300057	UST 319A 153 Brooks Rd. Rome C, NY	10/20/00	0-0.25 mile from target property	Not Reported	Not reported
EcoSearch Database Research	9610381	GAFB-UST 842-2 153 Brooks Rd. Rome C, NY	11/06/96	0-0.25 mile from target property	Not Reported	Corrective action taken/ Closed 07/09/99

APPENDIX E

AFRPA INFORMATION SUMMARY

ENVIRONMENTAL BASELINE SURVEY
PARCEL 1, ROME RESEARCH SITE
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

AFRL/RRS Parcel 1 EBS
AFCBA EBS Sites on Adjacent Properties

Site Name	Location Relative to Parcel 1 (approximate distance)	Environmental Significance
DRY-0240-01	Southeast of Building 240	No known significance at the present time
DRY-0240-02	Southeast of Building 240	No known significance at the present time
DRY-0240-03	South of Building 240	No known significance at the present time
DRY-0240-04	South of Building 240	No known significance at the present time
DRY-0240-05	West of Building 240	No known significance at the present time
DRY-0240-06	Northwest of Building 240	No known significance at the present time
DRY-0240-07	In Building 240	No known significance at the present time
DRY-0240-08	In Building 240	No known significance at the present time
DRY-0240-09	Northeast of B-240, South of B-247	No known significance at the present time
DRY-0240-10	Northeast of B-240, South of B-247	No known significance at the present time
DRY-0240-11	West of Building 240	No known significance at the present time
DRY-0240-12	North of B-240 , West of B-247/248	No known significance at the present time
DRY-0240-13	North of B-240 , West of B-247/248	No known significance at the present time
DRY-0240-14	North of B-240 , West of B-247/248	No known significance at the present time
DRY-0240-15	North of B-240 , West of B-247/248	No known significance at the present time
AST-0240	North of Building 240	No known significance at the present time
SRU-0247-01	In Building 247	No known significance at the present time
SRU-0247-02	In Building 247	No known significance at the present time
SRU-0247-03	In Building 247	No known significance at the present time
SRU-0247-04	In Building 247	No known significance at the present time
DRY-0248-01	West of Building 248	No known significance at the present time
DRY-0248-02	West of Building 248	No known significance at the present time
AST-0231	Southeastern side of B-231 (200 feet)	No known significance at the present time
SPT-0231	Eastern edge of B-231 (200 feet)	No known significance at the present time
DRY-0232	East of B-232 (200 ft from Parcel 1)	No known significance at the present time
AST-0232	Northwestern corner of B-232 (200 ft from Parcel 1)	No known significance at the present time
SPT-0232-01	South of Building 232 (200 ft from Parcel 1)	No known significance at the present time CAT 4
SPT-0232-02	South of Building 232 (200 ft from Parcel 1)	No known significance at the present time
SPT-0274	Southwest of Parcel 1 (200 feet)	No known significance at the present time
AST-0272	Southwest of Parcel 1 (200 feet)	No known significance at the present time
DRY-0245	North of B-245 (300 feet from Parcel 1)	No known significance at the present time
AST-0245	North of B-245 (300 feet from Parcel 1)	No known significance at the present time
OST-0245	South of B-245 (250 feet from Parcel 1)	No known significance at the present time
WW-0245	West of Building 240	No known significance at the present time
OTH-0245	West of B-245 (500 feet from Parcel 1)	No known significance at the present time

APPENDIX F

NYSDEC DATABASE SUMMARY

ENVIRONMENTAL BASELINE SURVEY
PARCEL 1, ROME RESEARCH SITE
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

Spills Data Summary
AFRL/RRS Parcel 1 EBS

Referenced In:	Spill No:	Distance:	Name & Location	Spill Date:	Material Spilled & Quantity	Cause of Spill:	Resource Effected:	Status:
EcoSearch Database Research	7900785	0-0.25 mile from target property	USAF Rome Laboratory – Hill Rd. Fac. 32 Brooks Rd. Bldg 247 Rome, NY	09/06/79	Jet fuel/Qty: 5 gallons	Tank Overfill	Groundwater	Corrective action taken/ Closed 09/07/79
NYSDEC Spills Search	9202011	Unknown	Griffiss Air Force Base Geiger St. & Hill Rd Rome C, NY	05/19/92	Transmission Fluid/ Qty: Unknown Unknown Petroleum/ Qty: 5 gallons	Equipment Failure	Land	Corrective action taken/ Closed 05/20/92
NYSDEC Spills Search	9204543	Unknown	Buidling 43 OWS/ UST O.W.S @ Bldg 43, Brooks Rd. Rome C, NY	07/20/92	Gasoline/ Qty: 30 gallons	Equipment Failure	Surface Water	Corrective action taken/ Open
NYSDEC Spills Search	9315099	Unknown	GAFB-Bldg 101 Hanger Rd Rome C, NY	03/23/94	Unknown Petroleum/ Qty: Unknown	Equipment Failure	In Sewer	Corrective action taken/ Closed 02/07/97
NYSDEC Spills Search	9400538	Unknown	Griffiss AFB Griffiss Air Force Base Rome C, NY	03/04/94	Sulfuric Acic/ Qty: Unknown	Other	Land	Corrective action taken/ Closed 03/04/94
NYSDEC Spills Search	9413303	Unknown	GAFB Bldg. 100 OWS Hanger Rd Rome C, NY	01/06/95	Unknown Petroleum/ Qty: Unknown	Unknown	Groundwater	Corrective action taken/ Closed 03/04/94
NYSDEC Spills Search	9415640	Unknown	Bldg 101 Bldg 101 Hanger Rd Rome C, NY	03/02/95	Jet Fuel/ Qty: 10 gallons	Equipment Failure	Land	Corrective action taken/ Closed 03/07/95
NYSDEC Spills Search	9501164	Unknown	Rome Labs Market Street Rome C, NY	04/27/95	Gasoline/ Qty: 1 gallon	Tank Overfill	Land	Corrective action taken/ Closed 04/28/95

Spills Data Summary
AFRL/RRS Parcel 1 EBS

Referenced In:	Spill No:	Distance:	Name & Location	Spill Date:	Material Spilled & Quantity	Cause of Spill:	Resource Effected:	Status:
NYSDEC Spills Search	9503481	Unknown	Bldg 775 Pumphouse 3 Ready Road SAC Hill Rome C, NY	06/21/95	Jet Fuel/ Qty: Unknown	Unknown	Land	Corrective action taken/ Open
NYSDEC Spills Search	9505336	Unknown	Bldg 775 Pumphouse 3 Ready Road SAC Hill Rome C, NY	07/31/95	Jet Fuel/ Qty: Unknown	Equipment Failure	Land	Corrective action taken/ Open
NYSDEC Spills Search	9506891	Unknown	Griffiss Air Force Base B-43-747 Brooks Rd Rome C, NY	09/06/95	Gasoline/ Qty: 2 gallons	Equipment Failure	Land	Corrective action taken/ Closed 09/06/95
NYSDEC Spills Search	9605909	Unknown	Bldg 775 Pumphouse 3 Ready Road SAC Hill Rome C, NY	07/30/96	Jet Fuel/ Qty: Unknown	Housekeeping	Land	Corrective action taken/ Open
EcoSearch Database Research	9609336	0-0.25 mile from target property	UST 319A 153 Brooks Rd. Rome C, NY	09/03/96	#2 Fuel Oil/ Qty: Unknown	Equipment Failure	Land	Corrective action taken/ Closed 12/30/02
EcoSearch Database Research	9609338	0-0.25 mile from target property	UST 319A 153 Brooks Rd. Rome C, NY	09/12/96	#2 Fuel Oil/ Qty: Unknown	Equipment Failure (UST 332)	Land	Corrective action taken/ Closed 06/29/99
EcoSearch Database Research	9609341	0-0.25 mile from target property	UST 319A 153 Brooks Rd. Rome C, NY	10/08/96	#2 Fuel Oil/ Qty: Unknown	Equipment Failure (UST 504)	Land	Corrective action taken/ Closed 01/25/00
EcoSearch Database Research	9609343	0-0.25 mile from target property	UST 319A 153 Brooks Rd. Rome C, NY	10/16/96	#2 Fuel Oil/ Qty: Unknown	Equipment Failure (UST 921)	Land	Corrective action taken/ Closed 12/02/97
EcoSearch Database Research	9609344	0-0.25 mile from target property	UST 319A 153 Brooks Rd. Rome C, NY	10/24/96	#2 Fuel Oil/ Qty: Unknown	Equipment Failure (UST 817-2)	Land	Corrective action taken/ Closed 12/02/97

Spills Data Summary
AFRL/RRS Parcel 1 EBS

Referenced In:	Spill No:	Distance:	Name & Location	Spill Date:	Material Spilled & Quantity	Cause of Spill:	Resource Effected:	Status:
EcoSearch Database Research	9609345	0-0.25 mile from target property	UST 319A 153 Brooks Rd. Rome C, NY	10/21/96	Gasoline/ Qty: Unknown	Equipment Failure (UST 426)	Land	Corrective action taken
EcoSearch Database Research	9609364	0-0.25 mile from target property	UST 319A 153 Brooks Rd. Rome C, NY	11/10/97	#2 Fuel Oil/ Qty: Unknown	Tank Pull (UST 745-2)	Land	Corrective action taken
EcoSearch Database Research	9609365	0-0.25 mile from target property	UST 319A 153 Brooks Rd. Rome C, NY	11/10/97	#2 Fuel Oil/ Qty: Unknown	Tank Pull (UST 440-2)	Land	Corrective action taken/ Closed 04/19/01
EcoSearch Database Research	9609366	0-0.25 mile from target property	UST 319A 153 Brooks Rd. Rome C, NY	11/10/97	Waste Oil/ Qty: Unknown	Equipment Failure (O/WS 015-3)	Land	Corrective action taken
EcoSearch Database Research	9610381	0-0.25 mile from target property	GAFB-UST 842-2 153 Brooks Rd. Rome C, NY	11/06/96	Diesel/ Qty: Unknown	Equipment Failure	Land	Corrective action taken/ Closed 07/09/99
EcoSearch Database Research	0013345	0-0.25 mile from target property	UST 319A 153 Brooks Rd. Rome C, NY	03/21/01	Waste Oil/ Qty: Unknown	Tank Pull (UST 305-2)	Land	Corrective action taken
NYSDEC Spills Search	0202337	Unknown	UST 705 Hill Rd Rome C, NY	06/04/02	#2 Fuel Oil/ Qty: 10 gallons	Equipment Failure	Land	Corrective action taken/ Open
EcoSearch Database Research	0300057	0-0.25 mile from target property	UST 319A 153 Brooks Rd. Rome C, NY	10/20/00	Not Reported	Not Reported	Not Reported	Not reported

APPENDIX G

FINDINGS MEMORANDA

G1 – Initial EBS Findings – June 2000
G2 – Phase II EBS Status – March 2001
G3 – Corrective Action – February 2003
G4 – Phase II EBS Status – March 2003
G5 – Corrective Action Status – January 2004

ENVIRONMENTAL BASELINE SURVEY
PARCEL 1, ROME RESEARCH SITE
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

APPENDIX G1

INITIAL EBS FINDINGS – JUNE 2000

ENVIRONMENTAL BASELINE SURVEY
PARCEL 1, ROME RESEARCH SITE
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

LU ENGINEERS
Civil and Environmental

MEMORANDUM

Date: June 20, 2000
To: Mike Bamberger, AFRL RRS/IFOCV
From: Jim MacKecknie
RE: Rome Research Site Griffiss Properties, EBS Status, B-240, 247 and 248
Lu Project No. 13124

Preliminary Environmental Baseline Survey(EBS) work at B-240, 247 and 248 has been completed including field inspections, most interviews, sampling of paint for lead content and interior radon testing. It is understood that EBS work required for this building must be completed on an accelerated basis to accommodate the schedule for the planned excessing of these buildings. To expedite the process, Lu Engineers has provided EBS findings verbally to RRS as soon as potentially relevant environmental issues have been identified to allow time for development of appropriate responses.

This memorandum is intended to more formally specify current findings with respect to B-240, 247 and 248, and to establish appropriate EBS categories for each area of concern (AOC) identified to date. Since the EBS being completed for B-240, 247 and 248 represents only a portion of the work required for the buildings and properties included in this project, AOC designations include the associated building number. In the case of B-240, 247 and 248, AOC will be designated as AOC-B240-XX, AOC-B247-XX, and AOC-B248-XX, respectively. EBS findings at the remaining RRS buildings will also be referenced in this way.

It is noted that Lu Engineers is in the process of reviewing environmental database information and has not yet completed review of available aerial photography. Related research and interviews are also being conducted on an on-going basis. The possibility exists that AOCs may be identified in association with B-240, 247 and 248 in addition to those specified below as a result of this ongoing work.

AOC-B240-01, Chiller Solution Tanks

The building inspection conducted on April 24, 2000 revealed the presence of four tanks associated with the abandoned air-handling units in the B-240 Annex basement. Three of the four tanks contain an unknown yellowish liquid that may be ethylene or propylene glycol. The fourth tank is empty. The empty tank is constructed of steel and is severely rusted. An inspection of the floor around the fourth tank revealed a stained area with a crusty white residue. It is suspected the integrity of this tank was compromised and a spill has occurred. Two of the three other tanks containing liquid are constructed of steel and in poor condition. The remaining tank is fiberglass. No elevated PID readings were obtained from the any of the tanks.

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Based on the condition of the two steel liquid containing tanks, additional spills in B-240 annex basement are likely if the liquid is not removed. Although the fiberglass tank appears to be in good condition removal of the liquid is recommended, if no use is planned for this material.

Two floor drains adjacent to the area of the suspected spill were inspected. The northern most floor drain inspected had a PID reading of 84.8 ppm. No elevated PID readings were obtained from the second floor drain. A floor drain north of the fiberglass tank also exhibited elevated PID readings. A review of the B-240 annex plumbing plans indicated that the floor drains discharge to a sump located at the southwest corner of the annex basement. Liquid from the sump is pumped directly to the sanitary sewer. No elevated PID readings were obtained from sump.

A second area of staining is located adjacent to an exit door along the west end of the annex basement, approximately 10 feet south of the spill previously discussed. This area is approximately 10 feet by 10 feet and is stained bluish black. The stained area may be related to poor drainage and the seepage from beneath the exit door. Further inspection of the stained area is recommended.

Further inspection of the chiller solution tanks should include sampling the liquid and the transfer of the liquid to a secure container. Inspection of the stained area should involve sampling of the residues, as well as any liquid and sediment in the sump. Based on the information reviewed to date, this AOC should be considered to be Category 7 property.

AOC-B240-02, Basement Floor Drains and Sumps

The building plan review and subsequent inspection of the basement beneath the original B-240 revealed 27 floor drains and 5 sumps. All of the floor-drains, with the exception of two, discharge to four sumps. The discharge location of the remaining floor drains and sump could not be confirmed. None of the sumps or floor-drains exhibited elevated PID readings. Only one sump was opened revealing staining and four to six inches of dried sediment.

Oil stained areas are present throughout the basement (as discussed below). The staining appears to be related to compressors or motors and is often located near floor drains. It is suspected that spills in the basement would flow to the sump and floor drain system.

Based on the plumbing plans for B-240, floor drains in the former Tube Room on the first floor discharge to a floor drain in the northwest quadrant of the basement. Plan review suggests the first floor floor drains were associated with emergency showers.

The presence of staining around the floor drains and sumps suggests contaminants may have been discharged to the sanitary sewer through the sumps and associated floor drains. Testing of sediment and residual waters in each sump is recommended to determine if hazardous waste or contaminated materials are present. Additional inspection of at least two floor-drains and sumps is warranted to confirm the discharge location of these features. Based on the information reviewed to date, this AOC should be considered to be EBS Category 7 property.

AOC-B240-03, B-240 Elevator Shaft

The sump beneath the elevator shaft in the southeast quadrant of the B-240 basement could not be inspected. A review of the record plans and the site inspection confirmed that it is a hydraulic elevator. Hydraulic oil staining and absorbent material is present around the hydraulic reservoir tank adjacent to the elevator, suggesting a release.

Further inspection of the elevator sump is recommended. Based on the information reviewed to date, this AOC should be considered to be Category 7 property.

AOC-B240-04, Oil Stained Areas in the Basement

An inspection of the B-240 basement revealed four areas where significant oil staining is present.

- **Load Center Number #5.** An inspection of load center # 5 revealed a black stain on the floor adjacent to a transformer, labeled as "non-PCB". The source of the stain could not be determined but appears to be related to the transformer. An open pit located adjacent to the transformer appears to have been impacted. The bottom of the pit is not lined providing a direct conduit to the subsurface. The area of staining encompasses approximately 6 square feet.
- **Northeast Basement Corner.** Oil staining is present on the floor adjacent to an electrical motor in the northeast corner of the basement. Oil absorbing clay has been placed on portions of the stain. No elevated PID readings were observed in the area. This location includes area of approximately 4 square feet.
- **Stained Floor Basement Floor adjacent to Steam Pit.** Oil staining is present on the floor around the steam pit, sump and air compressors west of the basement partition. Oil absorbent material has been placed on the floor adjacent to the compressor units. Oil staining is also present beneath a pressure relief valve at this location. The area of staining encompasses approximately 25 feet by 25 feet. No elevated PID readings were observed in the area. In addition, five quarts of 30-weight engine oil is stored on the floor adjacent to the compressors.
- **Stained Floor Northwest Basement Corner.** Oil staining is present on the floor adjacent to two air compressors in the northwest corner of the basement. No elevated PID readings were observed in the area. This stain covers an area approximately 10 feet by 10 feet. Staining is also present on the adjacent pillar.

Further inspection of the stained areas and the adjacent features is recommended. Additional inspection will require sampling the stain residuum and any impacted feature adjacent to the stain (i.e. the open pit a load center #5) to determine if a negative environmental impact has occurred. Based on the information reviewed to date, this AOC should be considered to be Category 7 property.

AOC-B240-05, Caged Storage in Basement

The building inspection revealed several fenced/caged storage areas in the B-240 basement. According to the building manger, research equipment is stored in these areas. This equipment appears to be primarily electrical equipment.

It could not be determined if any of the research equipment contained hazardous materials. Therefore, AOC-B240-12 should be considered to be EBS Category 7.

AOC-B240-06, Abandoned Oils and Miscellaneous Materials

Abandoned oil and miscellaneous materials are present along the west wall of the B-240 basement behind an air-handling unit. No indication of significant spillage or leakage from the containers was present. Abandoned oils and materials observed at this location include the following:

1-1 gallon container labeled "Gear Oil"
5-1 quart containers labeled "transmission lube"
1-1 gallon container of "Firehold", fire retardant paint AF102 – dark, warm gray, Chelsman Elliot Co.
1-1 gallon container of Carter 4043 Rust Preventative
1-1 gallon container of 1692 low temperature oil, MIL-L-7870A
3-1 pint containers of Dow Corning 200 Fluid (2 full, 1 partial)
1-1 quart container of an unknown liquid
1-5 gallon container of an unknown liquid (the label has worn off)

No elevated PID readings were observed in this location.

The presence of abandoned oils and miscellaneous materials represents a source of potential contaminant release to the building interior. Based on the information reviewed to date, this AOC should be considered to be Category 7 property.

AOC-B240-07, Open Pits at Basement Load Centers

Review of the building plans indicates that an open pit is located beneath the electrical units at each load center. The open pits are not lined and provide a direct conduit to the subsurface if a spill were to occur. The units above the pits are labeled "Non-PCBs" but it could not be determined if these are original units or if they contain oils.

The existing environmental condition of the open pits cannot be assessed without further investigation. Therefore, AOC-B240-07 should be considered to be EBS Category 7.

AOC-B240-08, Former Building Uses

According to the building manager, most of the rooms in B-240 are currently offices or computer workstations and inspection of each room was not deemed necessary. Subsequent plan review revealed that the former use of the rooms in B-240 involved chemical processes that are a source of environmental concern. The following is a list of the rooms of concern and their former use:

Room Number	Former Use	Concern
Rooms 137 and 139	Machine Shop	Grinder formerly located on the west side of 139.
Rooms 107,109, 111 and 113	Plating Laboratory	Laboratory tables in 109, 111 and 113. Floor drains in 111 discharge to a basement sump.
Rooms 110 and 114A	Tube Manufacturing	Tube Machine shop in 114A, Tube Laboratory occupied 111.
Room 243	Photography Laboratory	An acid neutralization crock may be present in the northeast corner of Room 243.
Rooms 307, 309, 313, and 315	Photography Shop	Three dark rooms occupied rooms 307 and 309. A chemical laboratory occupied rooms 313 and 315. Acid neutralization crocks may be present.

The presence of contaminated materials or hazardous waste that may have been stored or generated within these rooms cannot be ruled out at the present time. In addition, there is no documentation indicating that any of the acid neutralization crocks have been removed. Therefore detailed inspections of these rooms are warranted. Until detailed inspections can be completed AOC-B240-08 should be considered to be EBS Category 7.

AOC-B240-09, B-240 Dry Wells

A total of 14 dry wells were identified through record plan review.

- Seven of the dry wells are associated with roof drains. Two for the Annex and five for the main roof. Reportedly, the main roof of B-240 is used as a base for electronic research. Some of the research equipment may have contained PCBs or other oils. Thus, hazardous materials could have been released to the dry wells.
- Four dry wells are associated with basement hatchways. These structures appear to be either basement exits or fan exhausts. Drains are located at the bottom of each hatch way. According to the record plans the drains discharge to dry wells. These drains were not accessed during the original site inspection due to confined space entry concerns.

- A dry well east of B-240 is associated with a drain at large hatchway at the eastern end of B-240. Steel grating covers this hatchway and a dumpster was situated over the steel grating at the time of the inspection. No elevated PID readings were obtained from the drain. The dry well was not accessible for inspection. Approximately one quart of an oil-like substance is located on the basement floor in a coffee can immediately adjacent to overhead door leading to this hatchway.
- Two of the dry wells were removed for the construction of the B-240 Annex. One of which was associated with hatchways, the second was associated with a roof drain. The roof drain dry well was replaced. The hatchways associated with other dry well were removed.

Only one of the dry wells was accessible during original site inspection. No elevated PID readings were obtained from this dry well. None of the remaining dry wells were accessible. The two dry wells that were removed pose no immediate concern, as they were most likely completely removed during the construction of the B-240 annex basement.

Two of the hatchway drains were accessible during the initial site inspect. No elevated readings were obtained from either drain. Although no volatiles were detected at either floor drain, other contaminants cannot be ruled out.

The possibility that hazardous waste and/or contaminated materials have been discharged into the drywells cannot be ruled out at this site. Possible sources of such wastes or materials include but are not limited to the B-240 roof and the dumpster over the eastern most. Based on the information gathered to date the existing drywells should be considered to be EBS Category 7.

AOC-B240-10, Locked Hatch, Southeast Corner B-240

Exterior inspection of B-240 revealed a locked hatch adjacent to the concrete foundation at the southeast building corner. The building plans indicate a generator formerly was situated on an adjacent concrete pad, but there is no record of hatchway. The building manager indicated that the hatch has not been opened in the past 8 years. This hatch maybe associated with an underground storage tank that supplied fuel to the adjacent generator.

The possibility that hazardous or contaminated materials are associated with this feature cannot be ruled out at the present time. Therefore, AOC-B240-10 should be considered to be EBS Category 7.

AOC-B240-11, Stressed Vegetation along Perimeter Fence

A circular area of stressed vegetation was observed along western fence line north of B-240. This area of stressed vegetation has a diameter of approximately 50 feet. A review of historical photography indicated that this area of stressed vegetation is a reoccurring feature. The cause of the stressed vegetation could not be determined.

The possibility that contaminated materials or hazardous waste may be associated with this area of stressed vegetation cannot be ruled out at the present time. Therefore, AOC-B240-11 should be considered to be EBS Category 7.

AOC-B240-12, Building 240/247/248 Former Drum Storage Area

Review of existing environmental information indicates that the area encompassing buildings 240, 247 and 248 was probably a drum storage area in 1943. This area is designated in the 1994 Griffiss Air Force Base Area of Interest document as AOI 48. 1943 aerial photography indicates that the location was an excavation and storage area, the presence or absence of drums could not be confirmed.

The possibility that contaminated materials or hazardous waste associated with possible buried drums in this area cannot be ruled out at the present time. Therefore, AOC-B240-12 should be considered to be EBS Category 7.

BUILDING 247 AREAS OF CONCERN

AOC-B247-01, Equipment Room A

Due to access restrictions, Equipment Room "A" adjacent to the western vault was not inspected.

The possibility that contaminated materials or hazardous waste may be associated with equipment Room "A" cannot be ruled out at the present time. Therefore, AOC-B247-01 should be considered to be EBS Category 7.

AOC-B247-02 Photography Laboratory, Room 7

A review of the Building 247 plans indicates an acid neutralization crock is present in Room 7. This crock was not inspected for hazardous wastes or contaminated materials. This crock apparently discharges directly to the "Acid Waste" sanitary sewer.

The possibility that contaminated materials or hazardous waste associated with this crock cannot be ruled out at the present time. Therefore, AOC-B247-02 should be considered to be EBS Category 7.

AOC-B247-03, Stained Floor Mechanical Room

Oil staining is present on the floor adjacent to circulation pumps and the condensing units. The stained area appears to consist primarily of an oil-like substance. Oil absorbent material is present on the floor within the mechanical Room. No elevated PID readings were observed in the area.

The possibility that hazardous or contaminated materials may have spilled to the floor at this location cannot be ruled out at the present time. Therefore, AOC-B247-03 should be considered to be EBS Category 7.

BUILDING 248 AREAS OF CONCERN

AOC-B248-01, Stained Floor Mechanical Room

A black stain is present on the floor adjacent to two generators. Based on the record plans for this building a transformer may have occupied this portion of the mechanical room. The stain covers approximately two square feet. In addition, the concrete pad beneath an electric motor is covered by black oil like staining. No elevated PID readings were observed in the area.

The possibility that hazardous or contaminated materials may have spilled to the floor at this location cannot be ruled out at the present time. Therefore, AOC-B248-01 should be considered to be EBS Category 7.

AOC-B248-02, Floor Drains and Acid Neutralization Sump

A review of the building plans indicates that there are two floor-drains beneath the carpeting in the central portion of the building. The building plan indicates that these floor drains discharge to the sanitary sewer. Based on interviews with building occupants, vehicle wastes were historically poured into the floor drains. In addition, a third floor drain is located along the east side of the building. According to the building occupants, sewage occasionally flows from the floor drain. None of the floor drains were accessible during the building inspection.

According to the building plans, three acid cup sinks were located along the east wall of B-248. Any liquid introduced to these sinks would flow through a common line into an 18" ID by 24" deep acid neutralization sump. The sump discharged to the sanitary sewer. There is no record of the removal of the acid neutralization sump.

The potential disposal of hazardous waste of contaminated material to the B- 248 floor drains cannot be ruled out at this time. In addition, hazardous waste or contaminated materials may also be present in the acid neutralization sump if it still exists beneath the floor. Therefore, AOC-B248-02 should be considered to be EBS Category 7.

AOC-B248-03, B-248 Dry Wells

Building plan review and exterior building inspection identified a total of four dry wells. Two of the dry wells have been filled and abandoned. The active dry wells were installed to replace the former dry wells during the expansion of the B-248 parking area. According to the building plans the existing and former dry wells are associated with the B-248 roof drains. Both existing dry wells are vented to the ground surface.

Although there is no evidence that the dry wells accept drainage from any source other than the roof, this cannot be confirmed at this time. Based on the former usage of the facility as a vehicle maintenance facility the dry wells may have accepted drainage from other sources. Based on the information gathered to date the existing and former drywells should be should be considered to be EBS Category 7.

AOC-B248-04, Abandoned Hazardous Materials

A one-quart container of furniture polish appears to have been abandoned in the janitor's room. This furniture polish contains trichloroethylene. According to the B-248 occupants, they did not know that furniture polish was present in the janitor's room. No elevated PID readings were observed in this location.

The presence of abandoned hazardous materials represents a source of potential contaminant release to the building interior. Based on the information reviewed to date, this AOC should be considered to be Category 6 property.

Non-AOC Issues

The building inspection indicated the presence of fluorescent light fixtures, a portion of which may be old enough to potentially include PCB-containing ballasts.

The inspection also indicated the presence of several thermostats that may contain mercury installed at locations throughout the building. It is also possible that the building may contain mercury light switches.

The inspection of the B-240 annex basement revealed a flammable material storage locker containing numerous liquids. There is a one-gallon plastic container with "solvent" written on one side. No other labels are present on the container. In addition, there are two five-gallon containers of "York Oil" which are upside down, thus posing a potential spill hazard. Lu Engineers recommends determining if the building occupants are using the materials in the cabinet. If the materials are no longer being used they should be removed and disposed of properly.

Sampling of paint for the presence of lead was conducted. Paint sample analytical results are summarized in the following table.

SAMPLE NO.	LOCATION	LEAD (MG/KG)	LEAD (%)	CONDITION
BUILDING 240				
GEBS-240-LP01	Voltage Regulator Box, SE corner of Load Center #3	150,000	15	Peeling
GEBS-240-LP02	Chiller Unit in Fan Room #2	2,048	0.2048	Peeling
GEBS-240-LP03	Western Stairwell at roof	266	0.0266	Peeling
GEBS-240-LP04	Inside of External Door to Fenced Area	54.0	0.0054	Peeling
GEBS-240-LP05	Loading Dock at East End of Building	109	0.0109	Peeling
GEBS-240-LP06	Building Manager Office	149	0.0149	Peeling
BUILDING 247				
GEBS-247-LP01	Room 9, East Wall	73.3	0.00733	Peeling
GEBS-247-LP02	Room 9, West Wall	34.6	0.00346	Peeling
GEBS-247-LP03	Room 17, South Wall	16.3	0.00163	Peeling
GEBS-247-LP04	Room 13, West Wall	13.0	0.0013	Peeling
GEBS-247-LP05	Room 12, North Wall	13.8	0.00138	Peeling
BUILDING 248				
GEBS-248-LP01	Northwest Corner	<18.0	<0.0018	Peeling
GEBS-248-LP02	Foyer Southwest corner	78.1	0.0078.1	Peeling
GEBS-248-LP03	Mechanical Room	206	0.0206	Peeling

Radon surveys were conducted at seven locations in B-240 and at two locations in each B-247 and B-248. The following table summarizes the radon survey results.

SAMPLE NO.	LOCATION	CONCENTRATION
BUILDING 240		
916394	Fan Room #2 NE Corner	1.6
916395	Center of Annex S. Well	0.6
916393	Fan Room #1 NW Corner	2.8
916379	Basement Area 24B	1.5
916392	Basement Area 20B	0.2
916378	Basement Area 7C	<0.2
916377	Basement Area 2B	0.5
BUILDING 247		
916387	Room 17	0.2
916386	Room 2 east side	0.6
BUILDING 248		
916380	Southeast Corner	1.2
916377	Northwest Corner	1.0

Concentrations represented as pCi/l
The USEPA Action Level for Radon is 4.0 pCi/l

One transformer was observed at the northwest corner of the western B-247 vault. A second transformer is present along the east side of B-247. Three pole-mounted transformers are located north of B-247 and east of B-248, and are labeled "non-PCB". None of these units exhibited visual signs of leakage.

Inspection of B-240, 247 and 248 and review of the 1995 Asbestos Identification Survey indicate the presence of a variety of asbestos containing building materials (ACM) located throughout the structures and within steam pipe runs leading underground to and from the building. The documentation provided by the 1995 report is considered sufficient with respect to EBS disclosure requirements. Based on the approved scope of work, further sampling for the presence of suspected ACM or delineation of homogeneous areas will not be conducted as part of this EBS. Asbestos building demolition surveys have not yet been completed for these structures.

It is also noted that the sanitary cleanouts north of building 240 are constructed of 6-inch transite pipe. The pipe in its current condition does not pose a health threat, but if the cleanouts are to be disturbed the transite should be handled in accordance with applicable regulations.

Recommendations

Based on the findings to date the following is recommended for the identified Areas of Concern.

Building 240

AOC-B240-01, Chiller Solution Tanks:

- Obtain Material Safety Data Sheet for the liquid in the chiller tanks, if available.
- Sample the liquid in the Chiller Tanks for TCL volatiles and semi-volatiles (base/neutrals acid extractables (BNAs)), RCRA metals, glycols, reactivity, corrosivity and ignitability. After sampling the liquid should be transferred to labeled drums.
- Arrange for and properly dispose of the chiller tank liquid.
- Sample the spill residuum and analyze the substance for TCL volatiles and semi-volatiles (BNAs), RCRA metals, and glycols.
- Sample the bluish black stained area for PCBs, volatiles, semi-volatiles (BNAs), and metals.
- Sample the soil sample beneath the concrete floor for PCB's, and TCL volatiles and semi-volatiles (BNAs).
- Sample the water and sediment in the sump for TCL volatiles and semi-volatiles (BNAs), RCRA metals, and glycols.
- Flush any residual liquid from the abandoned chiller units.

AOC-B240-02, Basement Floor Drains and Sumps:

- Smoke and/or dye test the two floor drains and sump not identified on the plans to determine discharge locations.
- Sample any residual waters and sediment in the sumps for TCL volatiles and semi-volatiles (BNAs), RCRA metals, and PCB's.

AOC-B240-03, Elevator Shaft

- Access and inspect elevator sump.
- Sample soil/sediment in sump for volatiles, semi-volatiles (BNAs), and PCB's.
- Obtain an MSDS for the hydraulic oil.
- Obtain and review elevator maintenance records.
- Characterize the oil-stained floor; by obtaining PCB wipe samples.
- Obtain soil samples from beneath the oil stained floor and elevator for total petroleum hydrocarbon and semi-volatile (BNAs) analysis.

AOC-B240-04, Oil-Stained Areas in the Basement

- Characterize the oil-stained floor; by obtaining PCB wipe samples.
- Obtain soil samples from beneath the oil stained floor for total petroleum hydrocarbon analysis and TCL semi-volatiles (BNAs).
- Obtain a soil sample from the northwest pit at "Load Center No. 5" for PCB, and total petroleum hydrocarbon analysis.

AOC-B240-05, Caged Storage Areas in Basement

- Access and inventory the equipment and materials in the caged storage areas, including gaining access to the open pits beneath the equipment.
- If oil staining is present obtain PCB wipe samples.

AOC-B240-06, Abandoned and Miscellaneous Materials

- Obtain MSDS' for each abandoned material at this location
- Screen unknowns for hazardous waste.
- Arrange for and dispose of abandoned wastes.

AOC-B240-07, Open Pits at Load Centers

- Further investigate the equipment at the load centers.
- Determine if the electrical equipment at the load centers contain oils and are the original units.
- Sample any previously unidentified stains for PCBs.

AOC-B240-08, Former Building Uses.

- Conduct detailed inspections of each room to confirm contents and determine if any residual hazardous waste or hazardous materials are present.
- Sample contents of any acid neutralization crocks, for TCL volatiles and semi-volatiles (BNAs), reactivity, corrosivity, ignitability and RCRA metals.

AOC-B240-09, B-240 Dry Wells.

- Conduct further inspection of the hatchway drains with a PID. If elevated readings are recorded then excavate and sample the associated dry well.
- Access the roof drain dry wells and obtain a soil/sample for the TCL volatiles and semi-volatiles (BNAs), RCRA metals, and PCB analysis.
- No further action is required for the dry wells that were removed during the construction of the B-240 Annex.
- For the eastern most basement hatchway and associated dry well:
    - Sample oil for PCB's and Total Petroleum Hydrocarbons and properly containerize.
    - Locate the drywell and obtain a soil/sediment sample for TCL volatiles and semi-volatiles (BNAs), RCRA metals, and PCB analysis.

AOC-B240-10, Locked Hatch, Southeast Corner B-240

- Conduct further inspection of the locked hatch by removing the lock and opening the hatch.
- Screen the area with a PID and obtain soils samples as deemed necessary.

AOC-B240-11, Stressed Vegetation along Perimeter Fence

- Install a series of test pits in and around the area of stressed vegetation.
- Collect soil samples for TCL volatiles and semi-volatiles (BNAs), RCRA metals, PCB, pesticide and herbicide analysis.

AOC-B240-12, Building 240/247/248 Former Drum Storage Area

- Conduct a geophysical investigation of the Building 240/247248 Parcel, using ground-penetrating radar and/or magnetometer/conductivity surveys.
- Based on the geophysical investigation install a series of test pits.
- Collect soil samples for TCL volatiles and semi-volatiles (BNAs), RCRA metals, and PCB analysis.

Building 247

AOC-B247-01, Equipment Room A

- Gain access to Equipment Room A.
- If oil staining is present:
    - Obtain a PCB wipe sample, and
    - Obtain soil samples from beneath the oil stained floor and elevator for total petroleum hydrocarbon and semi-volatile (BNAs) analysis.

AOC-B247-02, Photography Laboratory, Room 7

- Identify the location of the acid neutralization crock.
- Obtain a sample from the crock for TCL volatiles and semi-volatiles (BNAs), reactivity, corrosivity, ignitability and RCRA metals analysis.

AOC-B247-03, Stained Floor in Mechanical Room

- Characterize the oil-stained floor; by obtaining PCB wipe samples.
- Obtain soil samples from beneath the oil stained floor and elevator for total petroleum hydrocarbon and semi-volatile (BNAs) analysis.

Building 248

AOC-B248-01, Stained Floor in Mechanical Room

- Characterize the oil-stained floor; by obtaining PCB wipe samples.
- Obtain soil samples from beneath the oil stained floor and elevator for total petroleum hydrocarbon and semi-volatile (BNAs) analysis.

AOC-B248-02, Floor Drains and Acid Neutralization Sump

- Access the floor-drains and obtain PID readings.
- Confirm the presence of the acid neutralization sump.
- Sample contents of the acid neutralization crock, for TCL volatiles and semi-volatiles (BNAs), reactivity, corrosivity, ignitability and RCRA metals analysis..

AOC-B248-03, B-248 Dry Wells

- Open the active dry wells and sample the sediment/soil, for TCL volatiles and semi-volatiles (BNAs), reactivity, corrosivity, ignitability and RCRA metals.
- Characterize and sample the abandoned dry wells for, for TCL volatiles and semi-volatiles (BNAs), reactivity, corrosivity, ignitability and RCRA metals.

AOC-B248-04, Abandoned Hazardous Materials.

- Characterize and arrange for the proper disposal of abandoned materials.

Projected Costs

Projected costs for recommended Phase II EBS work will be provided to RRS under separate cover.

APPENDIX G2

PHASE II EBS STATUS – MARCH 2001

ENVIRONMENTAL BASELINE SURVEY
PARCEL 1, ROME RESEARCH SITE
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

LU ENGINEERS
Civil and Environmental

MEMORANDUM **03/20/01**

TO: Mike Bamberger, AFRL RRS/IFOCV
FROM: Greg Andrus, Lu Engineers
RE: RRS Griffiss Properties, Phase II EBS Status – Parcel 1 (B-240, 247 and 248)

This memorandum is intended as an interim update to the EBS currently being completed for Parcel 1. This EBS is a portion of the EBS currently in progress for RRS's properties located at the Griffiss Business and Technology Park.

Background

In August and December 2000 and January 2001, Lu Engineers conducted sampling and testing at Parcel 1 to determine whether significant environmental conditions exist with respect to areas of concern (AOCs) identified during Phase I EBS work at this property. A total of 19 AOCs were identified during the Phase I portion of this EBS including the following:

Building 240

- AOC-B240-01, Chiller Solution Tanks
- AOC-B240-02, Basement Floor Drains and Sumps
- AOC-B240-03, B-240 Elevator Shaft
- AOC-B240-04, Oil Stained Areas in the Basement
- AOC-B240-05, Caged Storage in Basement
- AOC-B240-06, Abandoned Oils and Miscellaneous Materials
- AOC-B240-07, Open Pits at Basement Load Centers
- AOC-B240-08, Former Building Uses
- AOC-B240-09, B-240 Dry Wells
- AOC-B240-10, Locked Hatch, Southeast Corner B-240
- AOC-B240-11, Stressed Vegetation along Perimeter Fence
- AOC-B240-12, Building 240/247/248 Former Drum Storage Area

Building 247

- AOC-B247-01, Equipment Room A
- AOC-B247-02 Photography Laboratory
- AOC-B247-03, Stained Floor Mechanical Room

Building 248

- AOC-B248-01, Stained Floor Mechanical Room
- AOC-B248-02, Floor Drains and Acid Neutralization Sump
- AOC-B248-03, B-248 Dry Wells
- AOC-B248-04, Abandoned Hazardous Materials

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Sampling and testing were conducted in accordance with Lu Engineers' work plan entitled "Work Plan, Phase II Environmental Baseline Survey, Parcel 1, Rome Research Site, Griffiss Business and Technology Park, Rome, New York" dated October 2000. As specified in the Scope of Work for this project, a site-specific health and safety plan was completed and provided as an attachment to the work plan. A copy of the work plan was provided to RRS prior to initiation of the sampling and testing work. The work conducted in August was done prior to the completion of the work plan in order to coincide with building renovations at B-248 taking place at that time.

Description of Field Activities

On August 18, 2000 Lu Engineers conducted limited Phase II sampling and testing at B-248, including soil coring through the building's floor slab and wipe sampling for PCBs. Lu Engineers permanently closed the former acid neutralization crock and floor drains located in this building using concrete. Lu Engineers conducted the majority of the Phase II sampling and testing on December 11 through 14, 2000, and January 8 through 11, 2001. Hazardous waste liquids were removed from small tanks in the fan rooms at B-240 during the week of January 8, 2001. On January 31, 2001, a total of seven drainage sumps were cleaned and inspected in the basement of B-240.

Samples were analyzed for a variety of analytes, depending on the field screening findings and the nature of each subject AOC. AOC and sample locations are provided on the plans included as Attachment 1. Tabulated laboratory analytical data, for detected parameters only, are provided as Attachment 2. Attachment 2 also includes a tabulation of all sampling conducted as well as specific analytical protocols used for each sample. Analytical results are discussed in the following sections, as appropriate. A photoionization detector (PID) was also used to screen environmental media for volatile organic vapor during sampling and testing activities. Screening findings are discussed in the following sections, as appropriate. Attachment 3 includes representative photographs taken during Phase II EBS field work.

AOC-B240-01, Chiller Solution Tanks

Sampling and testing were conducted in December 2000 and January 2001 in order to characterize Phase I EBS findings associated with the abandoned heating, ventilation and air conditioning (HVAC) equipment located in the northern area of the B-240 basement. The following table summarizes the findings of the sampling and testing for AOC-B240-01.

AOC-B240-01 ANALYTICAL SUMMARY

LOCATION	SAMPLE #	HAZARDOUS CONTAMINANTS	REGULATED CONTAMINANTS
Fan Room 1	B240-L-FR1	cadmium, chromium	acetone, 2-butanone, ethylene glycol
Fan Room 2	B240-L-FR2	cadmium, chromium	acetone, 2-butanone, ethylene glycol
Floor at west end of area	B240-SR-01	chromium, lead	N/A

"L" in sample number indicates liquid sample
"SR" in sample number indicates spill residuum

A total of approximately 200 gallons of residual brine liquid was found to be contained in two small steel tanks, one located in each of the two fan rooms in this area of the building. The liquid was found to contain hazardous levels of chromium and cadmium. This liquid was pumped into approved drums that were appropriately labeled and staged at the B-240 elevator for eventual disposal by RRS.

A third, empty tank located at the west end of the northern portion of the basement had apparently leaked its contents onto the floor. The spill residuum was sampled and found to contain hazardous levels of chromium.

Closer inspection of the abandoned HVAC systems in this area of B-240 indicated that the interior surfaces of the systems located in Fan Rooms 1 and 2 are coated with a crusty yellowish residue. This residue is very similar in appearance to residue sampled at B240-SR-01 and material encrusted on the interior of the two small tanks pumped out during this project. Evaluation of the systems indicates that the liquid formerly contained in these tanks was pumped through the HVAC units, presumably heat exchangers, in the Fan Rooms in a recirculating process. One of the pipes leading into the heat exchanger in Fan Room 2 was labeled as "brine". Each of the heat exchanger units occupies an area of approximately 300 square feet. Interior surfaces encrusted with residue include areas several times larger than the units' footprints due to interior baffles and other surfaces. Representative photographs of the interior of these units are provided in Attachment 3.

The presence of residues containing hazardous levels of chromium represents a potential hazard to personnel who may be required to enter and/or work in affected areas of the northern portion of the B-240 basement. In their current state and location, the residues do not appear to represent a significant potential threat to building occupants in general.

Based on the information reviewed to date, this AOC should be considered to be Category 5 property.

AOC-B240-02, Basement Floor Drains and Sumps

A total of 27 floor drains and 7 sumps have been identified in the basement of B-240. Sampling and testing was conducted on water and sludge present in the sumps during December 2000 and January 2001. Sump and associated sample locations are indicated on the Sample Location Plan provided in Attachment 1.

Various levels of contamination, including hazardous levels of heavy metals were identified in the sump sediments. Water contained in Sump # 1 included a hazardous level of lead and was the only significantly contaminated water encountered. PCB contamination detected in a wipe sample obtained from the interior wall of Sump #2 did not indicate PCB-contaminated water or sediment in this location. None of the sumps or floor-drains exhibited elevated PID readings. The following is a summary of sampling findings associated with AOC-B240-02:

SUMMARY OF AOC-B240-02 SUMP ANALYTICAL DATA

SUMP #	SUMP LOCATION	SAMPLE #	HAZARDOUS CONTAMINANTS	REGULATED CONTAMINANTS
1	B-240 Bsmt. West End	B240-W-04	Lead	Acetone
		B240-SED-04	Lead	cis-1,2-dichloroethane, ethylbenzene, toluene, xylenes, acetone, MEK, bis(2-ethylhexyl)phthalate, 4-Chloroaniline
		B240-SW-11	N/A	N/A
2	B-240 Bsmt. West	B240-W-05	N/A	bis(2-ethylhexyl)phthalate, 4-Chloroaniline
		B240-SED-06	cadmium, chromium, lead, mercury, silver	MEK, acetone, bis(2-ethylhexyl)phthalate, fluoranthene
		B240-SW-12	N/A	PCB-1260
3	B-240 Bsmt. Center (small)	B240-W-03	N/A	N/A
		B240-SED-03	chromium, lead, mercury	acetone, MEK, multiple semivolatiles
		B240-SW-03	N/A	N/A
4	B-240 Bsmt. Center (large)	B240-W-02	N/A	acetone
		B240-SED-02	cadmium, chromium, lead	bis(2-ethylhexyl)phthalate
5	B-240 Bsmt. Annex	B240-W-01	N/A	bis(2-ethylhexyl)phthalate
		B240-SED-08	Chromium, lead	xylene, acetone, carbon disulfide, multiple semivolatiles
6	B-240 Bsmt. East, North	No Liquid	N/A	N/A
		B240-SED-05	cadmium, chromium, lead	acetone, multiple semivolatiles
7	B-240 Bsmt. East Stairwell	B240-W-06	N/A	N/A
		B240-SED-07	cadmium, chromium, lead, mercury	acetone, bis(2-ethylhexyl)phthalate, fluoranthene

"W" in sample number indicates water sample
"SED" in sample number indicates sediment sample
"SW" in sample number indicates surface wipe (for PCBs only)

Levels of contamination identified in the sumps warranted sampling through the floor slab in order to determine whether the contaminated materials in the sumps had resulted in impacts to soil conditions. Since utility clearance could not be obtained for subsurface sampling in this area, sump pits were cleaned out to facilitate inspection. Lu Engineers subcontracted Central Pump and Tank, Inc. to remove the sump contents via vacuum methods. Appropriate health and safety monitoring was conducted for this process including PID and aerosol monitoring. No detectable levels of volatile organics or airborne contaminants were detected during the vacuuming process.

With the exception of Sump # 1, water was pumped from the sump pits to the sanitary sewer serving the building using the pumps installed in each pit. Approximately 10 gallons of water had to be added to Sump #6 due to the presence of only dry sediment in this location.

Approximately 5 gallons of water containing trisodium phosphate (TSP) was also used for final cleaning of the sumps to facilitate inspection. Five 55-gallon drums of sludge containing a total of approximately 240 gallons of material were produced during the sump cleaning process. The drums were staged on pallets adjacent to the basement elevator doors, as directed by RRS.

Inspection of the sumps did not indicate the presence of significant cracks or deterioration. Photographs of the cleaned sumps are provided in Attachment 3.

The majority of concerns associated with AOC-B240-02 were eliminated during the sump cleaning process and inspection. The possibility exists that additional contamination may exist within the floor drains and piping leading to the sumps. However, it appears likely that only *de minimis* volumes of contaminated materials are present in the floor drains and piping beneath the B-240 basement floor. The only regulatory issue that appears to remain with respect to AOC-B240-02 is the presence of PCBs at Sump #2 exceeding the EPA limit of 10 ug/100cm^2. Based on the information reviewed to date, this AOC should be considered to be EBS Category 5 property.

Sump #2 SW-12 11.2 µg/100 cm²

AOC-B240-03, B-240 Elevator Shaft

The sump beneath the elevator shaft in the southeast quadrant of the [illegible] basement was inspected on January 10, 2001. The inspection was conducted concurrently with periodic maintenance by the RRS elevator maintenance contractor. Sampling and testing was conducted in the elevator pit as well as adjacent to the hydraulic system that powers the elevator. The following table summarizes the sampling and analytical results associated with AOC-B240-03:

AOC-B240-03 ANALYTICAL SUMMARY

LOCATION	SAMPLE #	HAZARDOUS CONTAMINANTS	REGULATED CONTAMINANTS
Adjacent to Hydraulic Unit	B240-SW-08	N/A	N/A
Clay Sorbent on Floor	B240-SED-01	N/A	1.7 mg/kg PCB-1254
Hydraulic Unit Oil	B240-O-01	N/A	N/A
Composite of Residue on Pit Floor	B240-EPS-01	N/A	6.8 mg/kg PCB-1260
Wipe Samples of Pit Floor	B240-EPSW-01 and 02	N/A	N/A

"SW" in sample number indicates surface wipe sample.
"O" in sample number indicates oil sample.
"EPSW" in sample number indicates elevator pit surface wipe sample.

Inspection of the elevator pit indicated the presence of widespread staining of the concrete floor of the pit. Stained surfaces appeared to be consistent with long-term low-volume hydraulic oil spillage. A small volume of hydraulic fluid is continually wiped from the hydraulic ram in the elevator pit as the elevator operates. This fluid is directed into a small tray that is periodically emptied. No information was available regarding how often this tray is emptied. It appeared that past releases of hydraulic oil in this location may have been associated with overfilling of

this tray. Hydraulic oil staining and absorbent material is present around the hydraulic reservoir tank adjacent to the elevator, suggesting a release. Elevator system service records have not yet been reviewed.

The elevator's hydraulic ram retracts into a casing that extends approximately 45 feet below the ground surface. Other than review of elevator service records, no information is currently available as to the condition of the hydraulic cylinder casing. It was not possible to penetrate the floor beneath this elevator to evaluate soil conditions.

The concentrations of PCBs detected in the clay sorbent material and residue on the pit floor do not appear to indicate the presence of significant levels of PCB contamination. However, the presence of detectable PCB concentrations associated with AOC-B240-03 may warrant expedited clean up of oily residues and sorbent material. Until additional information including service records can be reviewed, this AOC should be considered to be Category 7 property.

AOC-B240-04, Oil Stained Areas in the Basement
An inspection of the B-240 basement revealed areas where significant oil staining is present.

- **Load Center Number #5**
  Wipe sampling (B240-SW-05) did not indicate the presence of detectable PCBs at this location. Closer inspection of this stained area indicated that it did not appear to be oil related.
- **Northeast Basement Corner**
  Oil staining is present in two locations within the caged storage area at the northeast corner of the basement. PCB-1260 was detected at 9.6 micrograms per 100 square centimeter wipe (ug/100 cm^2) in sample number B240-SW-04, taken from the south side of the floor in this area. The stain located at the north end of this caged storage area did not yield detectable levels of PCBs, as indicated by sample number B240-SW-01. The level of PCBs identified at the south side of this area approaches the EPA limit of 10ug/100cm^2.
- **Stained Floor Basement Floor adjacent to Steam Pit**
  Staining is present on the floor around the steam pit, sump and air compressors west of the basement partition. The area of staining encompasses approximately 25 feet by 25 feet. Wipe sampling (B240-SW-09 and 10) did not indicate the presence of detectable PCBs associated with this stained area.
- **Stained Floor Northwest Basement Corner**
  Oil staining is present on the floor adjacent to two air compressors in the northwest corner of the basement. Wipe sampling (B240-SW-02) did not indicate the presence of detectable levels of PCBs associated with this stained area. This stain covers an area approximately 10 feet by 10 feet.
- **Stained Floor Beneath Abandoned HVAC Equipment**
  Oil staining is present on the floor adjacent to two components of the abandoned HVAC unit in the center of the north portion of the B-240 basement, located beneath the B-240 Annex. Two wipe samples, B240-SW-14 and 15, were taken in this location yielding concentrations of PCB-1260 of 13.2 and 7.58 ug/100cm^2, respectively. The total area of stained floor in this location is approximately 10 square feet. The level of PCBs

identified by B240-SW-14 exceeds the EPA limit of 10ug/100cm^2. Sample AOC-B240-13 was obtained from the southeast corner of the B-240 basement beneath the Annex. This sample yielded no detectable concentrations of PCBs.

- **Load Center in North End (Annex) Basement**
  Various electrical equipment is in service at the east side of the northern basement area, beneath the B-240 Annex. Two locations included light oil staining within this load center. Two samples were obtained from this area including B240-SW-06 (floor near center of area) and B240-SW-07 (oil-filled switch on east wall). Sample results did not indicate the presence of detectable levels of PCBs at either sample location.

The presence of levels of PCBs approaching the EPA limit of 10ug/100cm^2 at the south side of the northeast basement corner, and exceeding this EPA limit at the floor beneath the abandoned HVAC equipment indicates that cleanup of these areas is necessary. Based on the information reviewed to date, AOC-B240-04 should be considered to be Category 6 property.

AOC-B240-05, Caged Storage in Basement
The building inspection revealed several fenced/caged storage areas in the B-240 basement. Inspection of the caged storage areas was conducted in December 2000 and January 2001. No significant environmental concerns were noted as a result of these inspections. It is assumed that small quantities of materials such as PCBs and heavy metals may be contained within certain pieces of electronic equipment located in these areas. However, it is contended that *de minimis* quantities of hazardous or otherwise contaminated materials may be associated with this AOC. Therefore, AOC-B240-05 should be considered to be EBS Category 1 property.

AOC-B240-06, Abandoned Oils and Miscellaneous Materials
Abandoned oil and miscellaneous materials found at the west wall of the B-240 basement behind an air-handling unit have been removed and disposed of by RRS/IFOCV. No indication of significant spillage or leakage from the containers was present. Based on the information reviewed to date, this AOC should be considered to be Category 1 property.

AOC-B240-07, Open Pits at Basement Load Centers
Review of the building plans indicates that an open pit is located beneath the electrical units at each load center. The open pits are apparently not lined and would provide a direct conduit to the subsurface if a spill were to occur. The units above the pits are labeled with blue "No PCBs" stickers. A Phase II PCB Inventory Survey conducted by RRS (then Rome Laboratory) in December 1996 indicated that electrical equipment located in the load centers of the B-240 basement contain only "dry-type" transformers. A detailed inspection of the load centers accompanied by RRS personnel indicated that these pits were inaccessible.

The existing environmental condition of the open pits cannot be completely assessed without further investigation. However, based on the lack of documented spills associated with this AOC and the fact that the presence of PCBs was not indicated in RRS' previous detailed PCB Inventory Project, AOC-B240-07 should be considered to be EBS Category 3 property.

AOC-B240-08, Former Building Uses

The majority of the rooms within B-240 were not considered to require inspection since they have predominantly been converted to office space and no history of environmentally significant activities were noted. Plan review revealed that former use of certain rooms in B-240 involved chemical processes that may be a source of potential environmental concern that warranted detailed inspection. The following is a list of the rooms of potential concern and associated detailed inspection findings:

Room Number	Former Use	Historical Concern	Findings
Rooms 137 and 139	Machine Shop	Grinder formerly located on the west side of 139.	No significant findings during inspection.
Rooms 107,109, 111 and 113	Plating Laboratory	Laboratory tables in 109, 111 and 113. Floor drains in 111 discharge to a basement sump.	No significant findings during inspection.
Rooms 110 and 114A	Tube Manufacturing	Tube Machine shop in 114A, Tube Laboratory occupied 110.	No significant findings during inspection.
Room 243	Photography Laboratory	An acid neutralization crock may be present in the northeast corner of Room 243.	No significant findings during inspection.
Rooms 307, 309, 313, and 315	Photography Shop	Three dark rooms occupied rooms 307 and 309. A chemical laboratory occupied rooms 313 and 315. Acid neutralization crocks may be present.	No significant findings during inspection.

The presence of contaminated materials or hazardous waste was not indicated by the detailed inspection of the listed areas of B-240. In addition, based on additional research, sampling and testing associated with other AOCs at Parcel 1, it is assumed that the past drainage systems and processes considered to be of concern are likely to have discharged significant contents into downstream drainage facilities. Based on the information currently available, AOC-B240-08 should be considered to be EBS Category 4 property.

AOC-B240-09, B-240 Dry Wells

A total of 14 dry wells were identified through record plan review.

- Seven dry wells are associated with roof drains including two for the Annex and five for the main roof. It is possible that PCBs may have been present on the roof associated with past research. Therefore, hazardous materials could have been released to the dry wells.

- Four dry wells are associated with basement hatchways that each include a drain located in the center of the hatchway floor. Record plans indicate that the drains discharge to dry wells. These drains were visually inspected and tested with a PID. No detectable volatile organic vapor or indications of contamination were identified during this process.

- A dry well east of B-240 is associated with a drain on the floor of a large hatchway at the eastern end of B-240. A solvent-like odor was noted during the inspection of this area, but no elevated PID readings were obtained from the drain or surrounding area. The dry well was not accessible for inspection.

  A sample of the sediment (B240-SED-09) was collected from this floor drain for laboratory analyses. The results of this analysis are included in Attachment 2. The sample was found to contain elevated concentrations of acetone, bis(2-ethylhexyl)phthalate, butylbenzylphthalate, arsenic, barium and cadmium. Concentrations of chromium, lead and mercury exceeded the TCLP Alternative Guidance. PCB-1260 was also detected at 3.4 ppm.

- Two of the dry wells were reportedly removed for the construction of the B-240 Annex. One of these was associated with hatchways, the second was associated with a roof drain. The roof drain dry well was replaced. The hatchways associated with the other dry well were removed.

The possibility that hazardous waste and/or contaminated materials have been discharged into the drywell at the east end of B-240 is indicated by the levels of contaminants identified in the sediment sample obtained from this location. In addition, the possibility exists that past spillage of PCBs on the roof of B-240, as has reportedly occurred elsewhere on RRS properties in the past, may have resulted in the introduction of PCBs into the roof drain dry wells. Findings relating to other drywells associated with B-240 do not appear to indicate environmental concerns.

It is recommended that wipe sampling on the roof of B-240 and intrusive sampling and testing associated with the drywell at the east end of the building be conducted to fully evaluate environmental conditions associated with this AOC. Based on the information gathered to date, AOC-B240-09 should be considered to be EBS Category 7 property.

AOC-B240-10, Locked Hatch, Southeast Corner B-240

Exterior inspection of B-240 revealed a locked hatch adjacent to the concrete foundation at the southeast building corner. The lock was cut off and the hatch opened to reveal the presence of 9 grounding rods. No indications of significant use or materials were observed. The hatch was locked upon completion of the inspection with a BX-1 lock provided by RRS. Based on available information, AOC-B240-10 should be considered to be EBS Category 1 property.

AOC-B240-11, Stressed Vegetation along Perimeter Fence
A circular area of reoccurring stressed vegetation was observed along western fence line north of B-240 with a diameter of approximately 50 feet. Two soil samples were obtained from within this AOC including B240-SS-01 and 02. The location of AOC-B240-11 and the associated samples are indicated on the Sample Location Plan provided in Attachment 2. Laboratory analyses indicate the presence of elevated concentrations of mercury and lead in both samples. B240-SS-01 contained several semivolatile organics, and B240-SS-02 contained m,p-xylene. None of the detected contaminants exceeded applicable NYSDEC guidance values. No pesticides or herbicides were detected in either sample.

Since research and sampling have not indicated that significant soil contamination or past usage have caused the stressed vegetation in this area, it must be assumed that no significant environmental concerns are associated with this AOC. AOC-B240-11 should be considered to be EBS Category 3 property.

AOC-B240-12, Building 240/247/248 Former Drum Storage Area
Although initially suspected of having been used for drum storage in the past, review of existing environmental information indicates that the area encompassing Buildings 240, 247 and 248 was not likely to have been used for this purpose. This area is designated in the 1994 Griffiss Air Force Base Area of Interest document as AOI 48. This issue is not considered to require additional investigation by the AFBCA. AOC-B240-12 should be considered to be EBS Category 1 property.

BUILDING 247 AREAS OF CONCERN

AOC-B247-01, Equipment Room A
Inspection of Equipment Room A did not reveal the presence of issues of apparent environmental significance. Two stained areas of the floor were observed, presumably a result of the former presence of mechanical equipment. Two wipe samples, B247-SW-01 and 02 were taken on the floor in this room. Neither sample was found to contain detectable concentration of PCBs.

No indications of hazardous waste or contaminated materials have been identified in association with Equipment Room A. Therefore, AOC-B247-01 should be considered to be EBS Category 1 property.

AOC-B247-02 Photography Laboratory
Several issues of potential concern have been identified with respect to the abandoned photographic laboratory located in B-247. Detailed inspection of the series of rooms formerly occupied by the RRS photographic laboratory indicated the presence of an acid neutralization crock, a chemical storage room and floor drain system.

The acid neutralization crock for the photographic laboratory consists of a specially designed black plastic bucket with a capacity of approximately five gallons that presumably contains neutralizing agent such as limestone. The unit was found to be located above the floor level and

is linked by plastic piping to the photographic laboratory's sanitary drainage system. No indications of spillage or leakage were noted. The interior of the acid neutralization crock was not accessible for inspection or sampling.

RRS has indicated that removal of the photographic chemicals stored in the storage room is being conducted on an on-going basis. No indications of significant spillage or leakage have been observed in association with this storage room.

The floor drain system in the photographic laboratory was inspected. The majority of the inspection focused on the condition of the portion of the system located beneath a steel plate located in a hallway between the chemical storage room and a tile-lined area drain. The steel plate was lifted to reveal a concrete-lined trench terminating at a 4-inch diameter drainage inlet. The trench contained minimal amounts of sediment but the drainage inlet was completely full of sediment. The concrete was deteriorated around the drainage inlet in such a way that liquid in the trench could potentially enter the open space below the trench that apparently surrounds the drainage piping beneath the floor.

A sample of the sediment in the drainage inlet, B247-SED-01, was obtained for laboratory analysis. The sample indicated the presence of elevated levels of volatile organics, phthalates and PCB 1260. The sediment sample also contained levels of mercury, lead and chromium exceeding TCLP alternative guidance values for the hazardous waste toxicity characteristic.

Access to areas beneath the drainage inlet was not possible. It is apparent that hazardous and/or contaminated materials have entered areas beneath the floor in this location. No detectable organic vapor was found in this location or the other floor drains in the photographic laboratory.

The possibility that contaminated materials or hazardous waste may be present beneath the floor in the area of the drainage trench cannot be ruled out at the present time. The contents of the acid neutralization crock have not been characterized, and it is possible that hazardous waste and/or contaminated materials may be present in this location. Therefore, based on these findings, AOC-B247-02 should be considered to be EBS Category 7 property.

AOC-B247-03, Stained Floor, Mechanical Room

Oil staining is present on the floor adjacent to circulation pumps and the condensing units. The stained area appears to consist primarily of an oil-like substance. Three wipe samples, B247-SW-03, 04 and 05, were obtained from the oil-stained areas of the floor. No PCBs were detected in the samples and it is inferred that the oily material is lubricating and/or hydraulic oil from the mechanical equipment.

Based on these findings, AOC-B247-03 should be considered to be EBS Category 2 property.

BUILDING 248 AREAS OF CONCERN

AOC-B248-01, Stained Floor, Mechanical Room

A black stain covering approximately two square feet is present on the floor adjacent to two generators where a transformer may have been located in the past. A small concrete pad beneath an electric motor is also covered by black oil like staining in this room. Two wipe samples, B248-SW-01 and 02 were obtained from these locations respectively. Neither of these samples indicated the presence of detectable levels of PCBs.

It does not appear that the stained portions of the floor in the B-248 mechanical room represent a significant environmental concern. Therefore, AOC-B248-01 should be considered to be EBS Category 2 property.

AOC-B248-02, Floor Drains and Acid Neutralization Sump

Research conducted for the Phase I portion of this EBS indicated the presence of three floor drains and an acid neutralization crock beneath the floor of the main room of B-248. RRS subcontracted the removal of residual sludge from the acid neutralization crock in early August 2000. A sample, RRS000068, obtained from the material was submitted for laboratory analysis to facilitate disposal. The material contained contaminants including cresols and barium, but no hazardous waste levels of contaminants were identified.

On August 18, 2000, Lu Engineers conducted inspection and closure of the drainage features located in this area. The floor drains and acid neutralization crock were observed to be free of indications of significant contamination. No cracks or other significant deterioration was observed in the acid neutralization crock. The acid neutralization crock and floor drains were filled with concrete. On September 15, 2000, RRS conducted a more complete decommissioning of the floor drain system including removal of the majority of the existing piping in the main room of B-248. At that time, RRS obtained two samples, RRS000073 and 000074, representative of soils beneath the floor in this area and the contents of the sewer pipe disposed of during this process, respectively.

A total of six soil probes were manually drilled through the floor of the main room at B-248. Probe locations SP-01 through 06 are indicated on the Sample Location Plan. Sampling was conducted where elevated volatile organic soil vapor readings were detected with a PID, or to facilitate reasonable coverage of the study area. One soil sample, B248-SP-02, was obtained using manual methods during sampling and testing in August 2000. This sample location corresponded to a soil vapor reading of 2000 ppm. No other significantly elevated levels of soil vapor were identified during sampling and testing associated with AOC-B248-02. An additional five soil probe points were installed on January 8, 2001 and two soil samples, B248-SP-07 and 10, were obtained at that time.

The following table provides a summary of analytical results associated with AOC-B248-02.

AOC-B248-02 ANALYTICAL SUMMARY

LOCATION	SAMPLE #	HAZARDOUS CONTAMINANTS	REGULATED CONTAMINANTS
Main Room, West Side	B248-SP-02	N/A	barium, cadmium, chromium, lead and various semivolatile organics
Crock Contents	RRS000068	N/A	cresols and barium
Soil Around Sanitary Sewer Pipe	RRS000073	N/A	glycols, semivolatile organics
Material Extracted from Pipe	RRS000074	cadmium, silver	chromium, mercury, semivolatile organics
Bldg. Exterior, East Side	B248-SP-07	N/A	N/A
Bldg. Exterior, West Side	B248-SP-10	N/A	arsenic

"SP" in sample number indicates soil probe sample.

Based on the findings of the research, sampling and testing conducted in association with AOC-B248-02, it does not appear likely that significant environmental contamination is present in this area of Parcel 1. The majority of environmental concerns associated with AOC-B248-02 have been eliminated by the process of closure of the suspect portions of the building's floor drain system. Therefore, AOC-B248-02 should be considered to be EBS Category 3 property.

AOC-B248-03, B-248 Dry Wells

The vents for the active drywells located to the west of B-248 were checked with a PID. No detectable levels of volatile organic vapor were observed in these locations. Additional review of available building plans indicates no evidence that the dry wells accept drainage from any source other than the roof. No environmental incidents or other concerns have been found to be associated with AOC-B248-03. Based on available information, the existing and former drywells should be should be considered to be EBS Category 1 property.

AOC-B248-04, Abandoned Hazardous Materials

A one-quart container of furniture polish found in the janitor's room at B-248 was found to contain trichloroethylene. RRS is reportedly in the process of properly disposing of this material. No indications of spillage of this material have been found. Based on available information, AOC-B248-04 should be considered to be Category 4.

Facility Matrix

The following table provides a summary of the EBS status for each of the AOCs identified within Parcel 1:

AOC / BLDG.	AOC NAME	CURRENT EBS STATUS
Building 240		
AOC-B240-01	Chiller Solution Tanks	**EBS Category 5**
AOC-B240-02	Basement Floor Drains and Sumps	**EBS Category 5**
AOC-B240-03	B-240 Elevator Shaft	**EBS Category 7**
AOC-B240-04	Oil Stained Areas in the Basement	**EBS Category 6**
AOC-B240-05	Caged Storage in Basement	EBS Category 1
AOC-B240-06	Abandoned Oils and Miscellaneous Materials	EBS Category 1
AOC-B240-07	Open Pits at Basement Load Centers	EBS Category 3
AOC-B240-08	Former Building Uses	EBS Category 4
AOC-B240-09	B-240 Dry Wells	**EBS Category 7**
AOC-B240-10	Locked Hatch, Southeast Corner B-240	EBS Category 1
AOC-B240-11	Stressed Vegetation along Perimeter Fence	EBS Category 3
AOC-B240-12	Building 240/247/248 Fmr. Drum Storage Area	EBS Category 1
Building 247		
AOC-B247-01	Equipment Room A	EBS Category 1
AOC-B247-02	Photography Laboratory	**EBS Category 7**
AOC-B247-03	Stained Floor Mechanical Room	EBS Category 2
Building 248		
AOC-B248-01	Stained Floor Mechanical Room	EBS Category 2
AOC-B248-02	Floor Drains and Acid Neutralization Sump	EBS Category 1
AOC-B248-03	B-248 Dry Wells	EBS Category 3
AOC-B248-04	Abandoned Hazardous Materials	EBS Category 4

Note: AOCs classified above Category 4 are bold for reference.

Recommendations

AOC-B240-01, Chiller Solution Tanks
It is recommended that the hazardous residues be appropriately removed as soon as practicable. It is also recommended that access to affected areas of the B-240 basement be limited to personnel advised as to the potential hazards associated with the chromium contaminated residues.

AOC-B240-02, Basement Floor Drains and Sumps
It is recommended that the residual PCBs detected at Sump #2 be appropriately remediated.

AOC-B240-03, B-240 Elevator Shaft
It is recommended that oil spill residues be cleaned up, as appropriate. It is also recommended that additional research be conducted regarding available detailed elevator service records.

AOC-B240-04, Oil Stained Areas in the Basement
It is recommended that two locations in the B-240 basement be cleaned of PCB contamination including the floor at the south side of the northeast building corner and the floor beneath abandoned HVAC equipment below the Annex.

AOC-B240-09, B-240 Dry Wells
It is recommended that additional sampling and testing be conducted in association with this AOC including intrusive work at the dry well at the east end of B-240, and wipe sampling on the roof of B240.

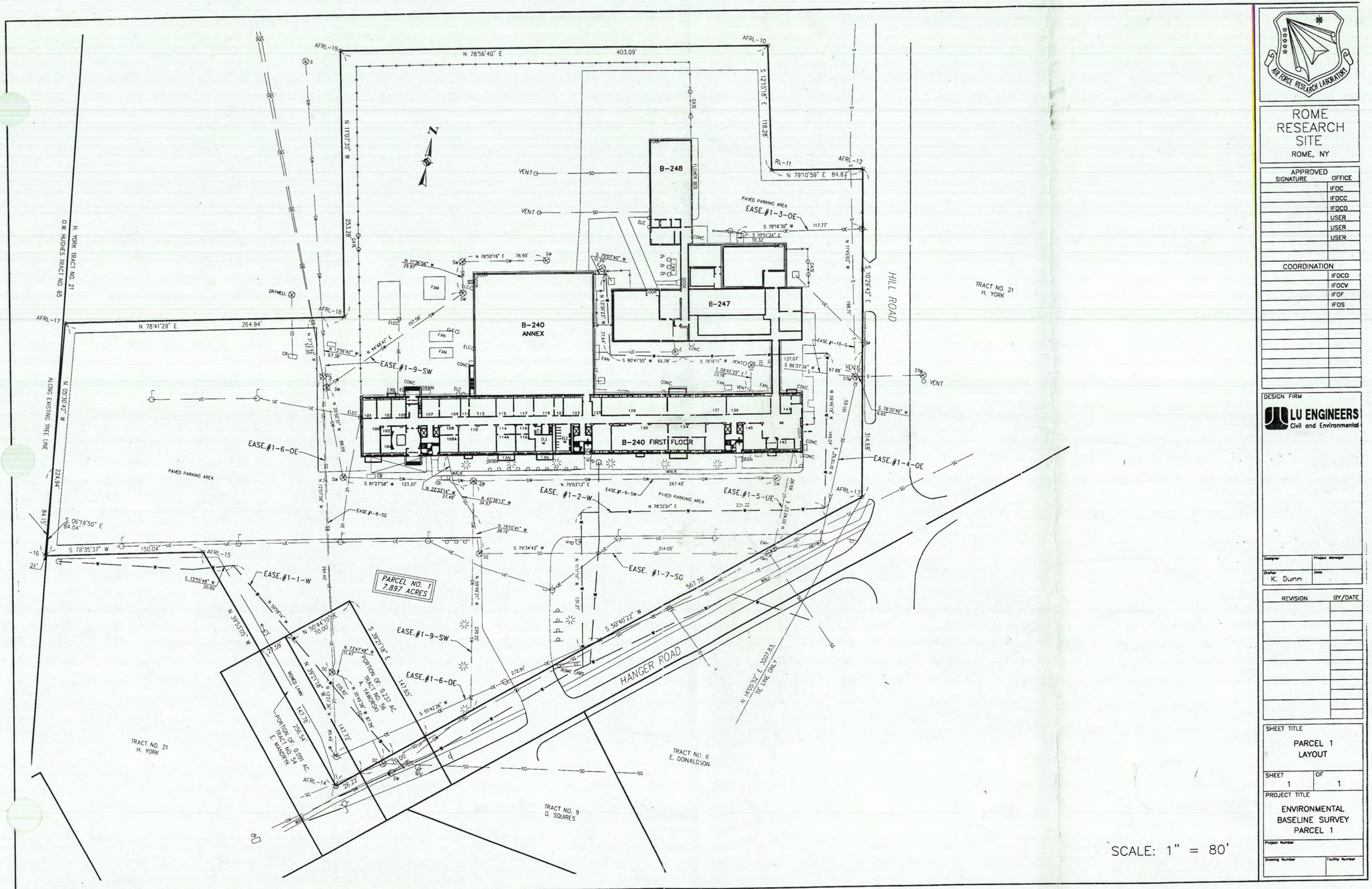
AOC-B247-02, Photography Laboratory
It is recommended that additional sampling and testing be conducted in association with this AOC to determine whether detected contaminants may have entered the environment and/or the building foundation.

ATTACHMENT 1
REFERENCE PLANS

PHASE II EBS
PARCEL 1, ROME RESEARCH SITE
ROME, NEW YORK

ATTACHMENT 2
ANALYTICAL DATA

PHASE II EBS
PARCEL 1, ROME RESEARCH SITE
ROME, NEW YORK



AIR FORCE RESEARCH LABORATORY

ROME RESEARCH SITE
ROME, NY

APPROVED SIGNATURE	OFFICE
	IFOC
	IFOCC
	IFOCO
	USER
	USER
	USER
COORDINATION	
	IFOCO
	IFOCV
	IFOF
	IFOS

DESIGN FIRM
LU ENGINEERS
Civil and Environmental

Designer	Project Manager
Drafter: K. Dunn	Date

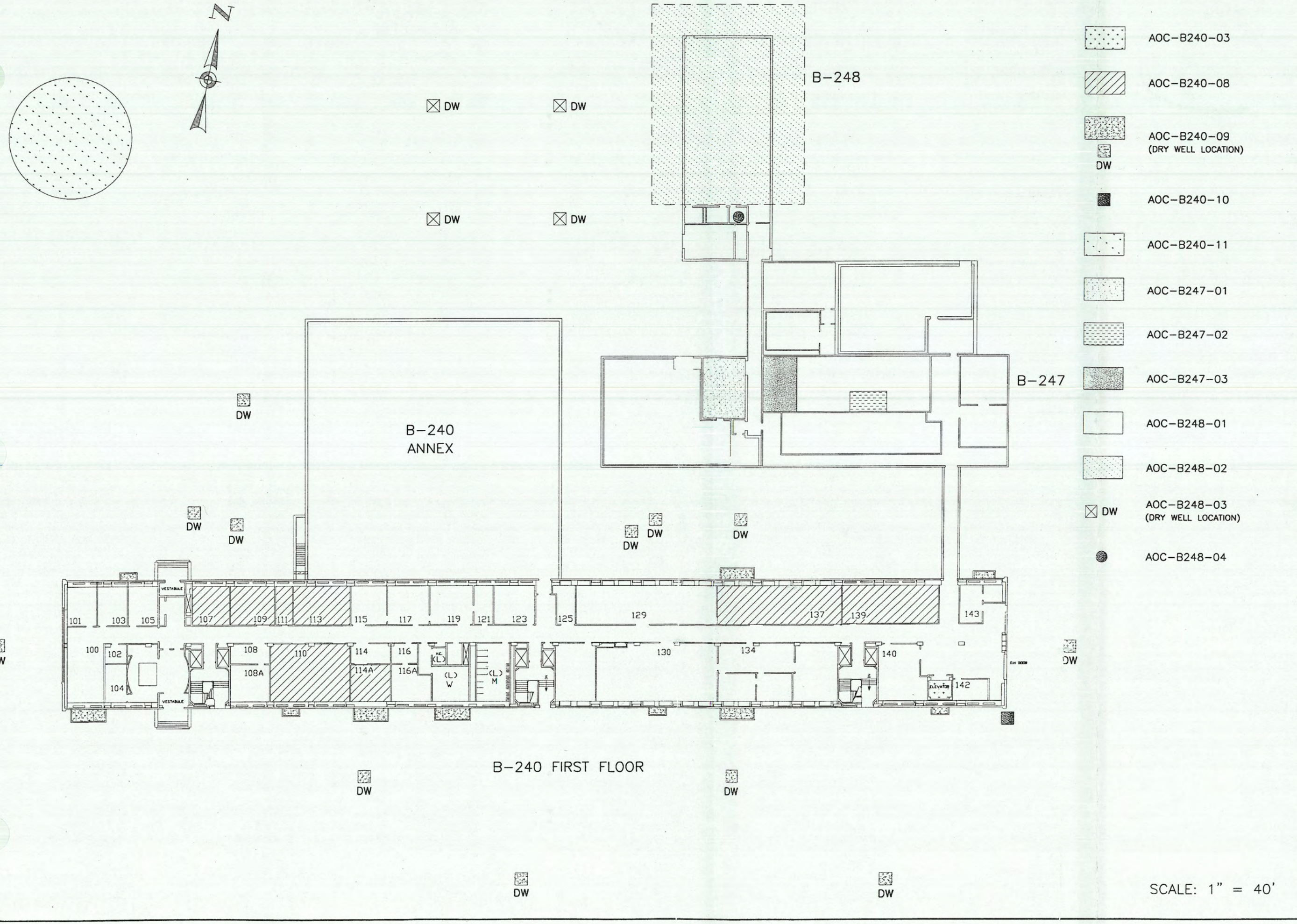
REVISION	BY/DATE

SHEET TITLE
PARCEL 1 LAYOUT

SHEET	OF
1	1

PROJECT TITLE
ENVIRONMENTAL BASELINE SURVEY PARCEL 1

Project Number	
Drawing Number	Facility Number



B-240 FIRST FLOOR

SCALE: 1" = 40'

AIR FORCE RESEARCH LABORATORY

ROME RESEARCH SITE
ROME, NY

APPROVED SIGNATURE	OFFICE
	IFOC
	IFOCC
	IFOCO
	USER
	USER
	USER
COORDINATION	
	IFOCO
	IFOCV
	IFOF
	IFOS

DESIGN FIRM
LU ENGINEERS
Civil and Environmental

Designer | Project Manager
Drafter: K. Dunn | Date

REVISION	BY/DATE

SHEET TITLE
EBS AREAS OF CONCERN

SHEET 1 OF 2

PROJECT TITLE
ENVIRONMENTAL BASELINE SURVEY PARCEL 1

Project Number
Drawing Number | Facility Number

PARCEL 1 PHASE II EBS
SAMPLING SUMMARY

AOC / BLDG.	AOC NAME	SAMPLES
Building 240		
AOC-B240-01	Chiller Solution Tanks	B240-L-FR1 and FR2 B240-SR-01
AOC-B240-02	Basement Floor Drains and Sumps	B240-W-01, 02, 03, 04, 05 and 06, B240-SW-03, 11 and 12 B240-SED-02, 03, 04, 05, 06, 07 and 08
AOC-B240-03	B-240 Elevator Shaft	B240-SW-08, B240-SED-01, B240-O-01, B240-EPS-01 B240-EP-SW-01 and 02
AOC-B240-04	Oil Stained Areas in the Basement	B240-SW-01, 02, 04, 05, 06, 07, 09,10, 13, 14 and 15
AOC-B240-05	Caged Storage in Basement	No Sampling Necessary
AOC-B240-06	Abandoned Oils and Miscellaneous Materials	No Sampling Necessary
AOC-B240-07	Open Pits at Basement Load Centers	No Sampling Necessary
AOC-B240-08	Former Building Uses	No Sampling Necessary
AOC-B240-09	B-240 Dry Wells	B240-SED-09
AOC-B240-10	Locked Hatch, Southeast Corner B-240	No Sampling Necessary
AOC-B240-11	Stressed Vegetation along Perimeter Fence	B240-SS-01 and 02
AOC-B240-12	Building 240/247/248 Former Drum Storage Area	No Sampling Necessary
Building 247		
AOC-B247-01	Equipment Room A	B247-SW-01 and 02
AOC-B247-02	Photography Laboratory, Room 7	B247-SED-01
AOC-B247-03	Stained Floor Mechanical Room	B247-SW-03, 04 and 05
Building 248		
AOC-B248-01	Stained Floor Mechanical Room	B248-SW-01 and 02
AOC-B248-02	Floor Drains and Acid Neutralization Sump	B248-SP-02, 07 and 10 RRS000068, 73 and 74
AOC-B248-03	B-248 Dry Wells	No Sampling Necessary
AOC-B248-04	Abandoned Hazardous Materials	No Sampling Necessary

PARCE' 'IASE II EBS
SAMPI JMMARY

BUILDING: 240

AOC	Samples	RCRA Metals (Soil)	RCRA Metals (Water)	PCB's	TCL SVOC'S	TCL Volatiles	Glycols	Corrosivity (pH) (Liquid)	Corrosivity (pH) (Soil) EPA 9045	Reactivity	Ignitability	Chlorinated Herbicides	Pesticides
AOC-B240-01	B240-L-FR1 and FR2		X		X	X	X	X		X	X		
	B240-SR-01	X		X			X		X	X			
AOC-B240-02	B-240-W-01, 02, 03, 04, 05 and 06		X	X	X	X	X						
	B-240-SW-03, 11 and 12			X									
	B240-SED-02, 03, 04, 05, 06 and 07	X		X	X	X							
	B240-SED-08	X		X	X	X	X						
AOC-B240-03	B240-SW-08, B-240-SED-01, B240-EPS-01, B240-EP-SW-01 and 02			X									
	B240-O-01[6]			X									
AOC-B240-04	B240-SW-01, 02, 04, 05, 06, 07, 09, 10, 13, 14, and 15			X									
AOC-B240-05	No Sampling Necessary												
AOC-B240-06	No Sampling Necessary												
AOC-B240-07	No Sampling Necessary												
AOC-B240-08	No Sampling Necessary												
AOC-B240-09	B240-SED-09	X		X	X	X	X		X	X			
AOC-B240-10	No Sampling Necessary												
AOC-B240-11	B240-SS-01 and 02	X		X	X	X						X	X
AOC-B240-12	No Sampling Necessary												

PARCEL [illegible]ASE II EBS
SAMPL[illegible]JMMARY

BUILDING: 247

AOC	Samples	RCRA Metals (Soil)	RCRA Metals (Water)	PCB's	TCL SVOC'S	TCL Volatiles	Glycols	Corrosivity (pH) (Liquid)	Corrosivity (pH) (Soil) EPA 9045	Reactivity	Ignitability	Chlorinated Herbicides	Pesticides
AOC-B247-01	B247-SW-01 and 02			X									
AOC-B247-02	B247-SED-01	X		X	X	X			X	X			
AOC-B247-03	B247-SW-03, 04 and 05			X									

BUILDING: 248

AOC-B248-01	B248-SW-01 and 02			X									
AOC-B248-02	B248-SP-02, 07 and 10, 73 and 74)*	X		X	X	X			X				
	RRS000068	X			X	X			X	X	X		
	RRS000073 and 74	X		X	X	X				X	X		
AOC-B248-03	No Sampling Necessary												
AOC-B248-04	No Sampling Necessary												

PARCEL I PHASE II EBS, METALS
SAMPLE TYPE: SEDIMENT AND SOIL
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-SED-02	B240-SED-03	B240-SED-04	B240-SED-05	B240-SED-06	B240-SED-07	B240-SED-08	B240-SED-09	B240-SR-01	TCLP ALT. GUID. VALUE[2]	REC. SOIL CLEANUP OBJECTIVE (MAX)[3]
Arsenic	**8.71**	**29.5**	<3.73	**8.57**	**18**	**13.7**	6.1	**27.1**	**18.8**	100	7.5
Barium	88.7	68.6	46.3	217	145	74.7	**327**	69.4	224	2000	300
Cadmium	**22.5**	**15.4**	7.46	**22.4**	**88.8**	**36.6**	**16.6**	**12.3**	**11.1**	20	10
Chromium	**123**	**638**	**67.2**	**182**	**847**	**324**	**4430**	**120**	**668**	100	50
Lead	**4530**	**3730**	**430**	**992**	**2880**	**1380**	**784**	**191**	**226**	100	400
Mercury	**2.9**	**5.73**	**2.25**	**3.78**	**46.7**	**13**	**2.5**	**8.88**	**0.527**	4	0.1
Selenium	<0.871	**6.28**	**10.4**	1.01	<1.91	<1.05	<0.608	<0.815	<0.839	20	2
Silver	70.6	19.6	<7.46	48.3	789	39.3	18.8	13.4	20.8	100	SB[4]

1 All data presented as milligrams per kilogram (mg/kg)
2 TCLP Alternative Guidance Value for Toxicity Characteristic (NYSDEC STARS Memo #1, 8/92)
3 Soil Cleanup Objectives and Cleanup Levels (NYSDEC TAGM 4046, 1/94)
4 Site Background

PARCEL I PHASE II EBS, METALS (CONTINUED)
SAMPLE TYPE: SEDIMENT AND SOIL
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-SS-01	B240-SS-02	B247-SED-01	B248-SP-07	B248-SP-10	B248-SP-02	RRS000 068	RRS000 073	RRS000 074	TCLP ALT. GUID. VALUE[2]	REC. SOIL CLEANUP OBJECTIVE (MAX)[3]
Arsenic	3.15	**39.1**	**18.6**	4.92	**9.43**	6.34	<1.0	<10.6	<10.6	100	7.5
Barium	28.7	68.7	**854**	48.1	61.4	75.6	5.8	35.9	89.1	2000	300
Cadmium	0.443	<0.503	**18.2**	<0.395	<0.411	<0.511	<0.05	1.0	**29.2**	20	10
Chromium	5.76	12.8	**1590**	15.2	16.4	11.8	<0.10	8.2	**84.0**	100	50
Lead	25.7	87.4	**1040**	9.84	10.7	7.05	<0.50	10.8	30.1	100	400
Mercury	**0.102**	**0.133**	**0.971**	0.0864	0.0613	<0.0747	<0.02	<0.043	**0.138**	4	0.1
Selenium	0.984	<0.503	<0.460	<0.395	<0.411	<0.511	<1.0	<10.6	<10.6	20	2
Silver	1.16	1.77	791	1.76	2.21	1.33	<0.10	<0.53	214	100	SB[4]

1 All data presented as milligrams per kilogram (mg/kg)
2 TCLP Alternative Guidance Value for Toxicity Characteristic (NYSDEC STARS Memo #1, 8/92)
3 Soil Cleanup Objectives and Cleanup Levels (NYSDEC TAGM 4046, 1/94)
4 Site Background

PARCEL I PHASE II EBS, METALS
SAMPLE TYPE: WATER
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-L-FR1	B240-L-FR2	B240-W-01	B240-W-02	B240-W-03	B240-W-04	B240-W-05	B240-W-06	TOXICITY CHARACT. (HAZARDOUS) LEVEL[2]
Arsenic	0.075	0.080	<0.050	<0.005	<0.005	0.015	<0.005	<0.005	5
Barium	<0.1	<0.100	<0.020	<0.020	<0.020	0.258	<0.020	0.020	100
Cadmium	**3.44**	**2.56**	<0.050	<0.005	0.006	0.055	<0.005	<0.005	1
Chromium	**150**	**130**	<0.010	<0.010	0.018	0.191	<0.010	<0.010	5
Lead	1.17	0.948	0.009	0.155	1.37	**6.31**	<0.005	0.037	5
Mercury	0.008	0.003	<0.0002	0.0006	0.001	0.001	<0.0002	0.0004	0.2
Selenium	<0.025	<0.025	<0.005	<0.005	<0.005	0.020	<0.005	<0.005	1
Silver	<0.050	<0.050	<0.010	0.011	<0.010	0.050	<0.010	<0.010	5

1 All data presented as milligrams per Liter (mg/L)
2 Value for Toxicity Characteristic (40CFR Part 261.24)

PARCEL I PHASE II EBS, POLYCHLORINATED BIPHENYLS
SAMPLE TYPE: WIPE
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-SW-01	B240-SW-02	B240-SW-03	B240-SW-04	B240-SW-05	B240-SW-06	B240-SW-07	B240-SW-08	B240-SW-09	B240-SW-10	B240-SW-13	APPL. STD[3]
PCB-1260	BDL[2]	BDL	BDL	**9.60**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10.0

DETECTED PARAMETERS[1]	B240-SW-11	B240-SW-12	B240-SW-14	B240-SW-15	B240-EP-SW-01	B240-EP-SW-02	B247-SW-01	B247-SW-02	B247-SW-03	B247-SW-04	B247-SW-05	B248-SW-01	B248-SW-02	APPL. STD[3]
PCB-1260	BDL	**11.2**	**13.2**	7.58	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10.0

1 All data presented as micrograms per wipe (ug/wipe)
2 BDL: Below detectable limits
3 40 CFR Part 761.125

PARCEL I PHASE II EBS, POLYCHLORINATED BIPHENYLS
SAMPLE TYPE: SOIL/SLUDGE/OIL
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-EPS-01	B240-SED-01	B240-SED-02	B240-SED-03	B240-SED-04	B240-SED-05	B240-SED-06	B240-SED-07	B240-SED-08	B240-SED-09	B240-O-01	APPL. STD[3]
PCB-1254	BDL[2]	1.7	BDL	2.6	BDL	BDL	20	BDL	0.91	BDL	BDL	50
PCB-1260	6.8	BDL	BDL	BDL	BDL	BDL	BDL	5.1	BDL	3.4	BDL	50

DETECTED PARAMETERS[1]	B240-SR-01	B240-SS-01	B240-SS-02	B247-SED-01	B248-SP-07	B248-SP-10	B248-SP-02	RRS00 0073	RRS00 0074	APPL. STD[3]
PCB-1254	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
PCB-1260	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50

1 All data presented as milligrams per kilograms (mg/kg)
2 BDL: Below detectable limits
3 40 CFR Part 761.2

PARCEL I PHASE II EBS, POLYCHLORINATED BIPHENYLS
SAMPLE TYPE: WATER
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-W-01	B240-W-02	B240-W-03	B240-W-04	B240-W-05	B240-W-06	APPL. STD[3]
All PCB Acrolars	BDL[2]	BDL	BDL	BDL	BDL	BDL	50

1 All data presented as milligrams per kilograms (mg/kg)
2 BDL: Below detectable limits
3 40 CFR Part 761.2

PARCEL I PHASE II EBS, SEMIVOLATILE ORGANICS
SAMPLE TYPE: WATER
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-L-FR1	B240-L-FR2	B240-W-01	B240-W-02	B240-W-03	GW STDS./ CRITERIA[2]	TOXICITY CHARACT. (HAZARDOUS) LEVEL[3]
4-Chloroaniline	BDL[4]	BDL	BDL	BDL	BDL	5	N/A
Bis (2-ethylhexyl) phthalate	BDL	BDL	100	BDL	BDL	50	N/A

DETECTED PARAMETERS[1]	B240-W-04	B240-W-05	B240-W-06	GW STDS./ CRITERIA[2]	TOXICITY CHARACT. (HAZARDOUS) LEVEL[3]
4-Chloroaniline	BDL	66.0	BDL	5	N/A
Bis (2-ethylhexyl) phthalate	BDL	96.0	BDL	50	N/A

1 Results represented as micrograms per Liter (ug/L)
2 Soil Cleanup Objectives and Cleanup Levels (NYSDEC TAGM 4046, 1/94)
3 Value for Toxicity Characteristic (40CFR Part 261.24)
4 BDL – Below Detectable Limit

PARCEL I PHASE II EBS, SEMIVOLATILE ORGANICS
SAMPLE TYPE: SOIL
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-SED-02	B240-SED-03	B240-SED-04	B240-SED-05	B240-SED-06	B240-SED-07	B240-SED-08	ALLOWED SOIL CONC.[2]	REC. SOIL CLEANUP OBJECTIVE (MAX)[2]
4-Chloroaniline	BDL[3]	BDL	**213,000**	BDL	BDL	BDL	BDL	2.2	220
Acenapthylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	410	41,000
Anthracene	BDL	BDL	BDL	386	BDL	BDL	BDL	7000	50,000
Benzo (a) anthracene	BDL	**11,500**	BDL	**1,310**	BDL	BDL	**5,860**	30	224
Benzo (a) pyrene	BDL	**9,710**	BDL	**7,280**	BDL	BDL	**6,720**	110	61
Benzo (b) fluoroanthene	BDL	**12,400**	BDL	BDL	BDL	BDL	**6,110**	11	1,100
Benzo (g,h,i) perylene	BDL	6,480	BDL	1,490	BDL	BDL	BDL	8,000	50,000
Benzo (k) fluoroanthene	BDL	**15,900**	BDL	**7,590**	BDL	**17,100**	**9,900**	11	1,100
Benzyl alcohol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	N/A
Bis(2-ethylhexyl)phthalate	**49,400**	**15,300**	**84,600**	**7,140**	**41,700**	**55,000**	**15,700**	4,350	50,000
Butylbenzylphthalate	BDL	BDL	BDL	1,490	BDL	BDL	BDL	1,225	50,000
Chrysene	BDL	**8,980**	BDL	**2,920**	BDL	BDL	**8,310**	4.0	400
Dibenz (a,h) anthracene	BDL	**2,390**	BDL	**786**	BDL	BDL	BDL	1,650,000	14
Di-n-butyl phthalate	BDL	BDL	BDL	**735**	BDL	BDL	BDL	81	8,100
Fluoroanthene	BDL	12,600	BDL	1,380	**26,500**	BDL	14,900	19,000	50,000
Indeno (1,2,3-cd) pyrene	BDL	**6,510**	BDL	**3,810**	BDL	BDL	BDL	32	3,200
Napthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	130	200
Phenanthrene	BDL	**13,000**	BDL	1,230	BDL	BDL	**9,930**	2,200	50,000
Pyrene	BDL	**35,900**	BDL	**5,020**	BDL	BDL	**10,300**	6,665	50,000
Total Cresol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	N/A

1 Results represented as micrograms per kilogram (ug/kg)
2 Soil Cleanup Objectives and Cleanup Levels (NYSDEC TAGM 4046, 1/94)
3 BDL – Below Detectable Limit

PARCEL I PHASE II EBS, SEMIVOLATILE ORGANICS (CONTINUED)
SAMPLE TYPE: SOIL
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-SS-01	B240-SS-02	B247-SED-01	B240-SED-09	B248-SP-07	B248-SP-10	B248-SP-02	RRS000 068	RRS000 073	RRS000 074	ALLOWED SOIL CONC.[2]	REC. SOIL CLEANUP OBJECTIVE (MAX)[2]
4-Chloroaniline	BDL[3]	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.2	220
Acenapthylene	BDL	BDL	BDL	BDL	BDL	BDL	310	BDL	BDL	BDL	410	41,000
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1,200	7000	50,000
Benzo (a) anthracene	BDL	BDL	BDL	BDL	BDL	BDL	**701**	BDL	**280**	**5,100**	30	224
Benzo (a) pyrene	BDL	BDL	BDL	BDL	BDL	BDL	**864**	BDL	BDL	**3,500**	110	61
Benzo (b) fluoroanthene	BDL	BDL	BDL	BDL	BDL	BDL	**1,060**	BDL	280	**3,100**	11	1,100
Benzo (g,h,i) perylene	BDL	BDL	BDL	BDL	BDL	BDL	692	BDL	320	2,400	8,000	50,000
Benzo (k) fluoroanthene	**437**	BDL	BDL	BDL	BDL	BDL	**912**	BDL	290	**3,400**	11	1,100
Benzyl alcohol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	340	BDL	N/A	N/A
Bis(2-ethylhexyl)phthalate	BDL	BDL	**16,300**	**18,000**	BDL	BDL	BDL	BDL	BDL	BDL	4,350	50,000
Butylbenzylphthalate	BDL	BDL	**4,740**	**53,700**	BDL	BDL	BDL	BDL	BDL	BDL	1,225	50,000
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	**770**	BDL	390	**5,800**	4.0	400
Dibenz (a,h) anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**130**	**1,300**	1,650,000	14
Di-n-butyl phthalate	BDL	BDL	**7,250**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	81	8,100
Fluoroanthene	445	BDL	BDL	BDL	BDL	BDL	1,060	BDL	220	11,000	19,000	50,000
Indeno (1,2,3-cd) pyrene	BDL	BDL	BDL	BDL	BDL	BDL	**698**	BDL	BDL	2,500	32	3,200
Napthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	82	130	200
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	395	BDL	180	11,000	2,200	50,000
Pyrene	362	BDL	BDL	BDL	BDL	BDL	969	BDL	290	11,000	6,665	50,000
Total Cresol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**480**	BDL	BDL	N/A	N/A

1 Results represented as micrograms per kilogram (ug/kg)
2 Soil Cleanup Objectives and Cleanup Levels (NYSDEC TAGM 4046, 1/94)
3 BDL – Below Detectable Limit

PARCEL I PHASE II EBS, VOLATILE ORGANICS
SAMPLE TYPE: WATER
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-L-FR1	B240-L-FR2	B240-W-01	B240-W-02	B240-W-03	B240-W-04	B240-W-05	B240-W-06	TOXICITY CHARACT. (HAZARDOUS) LEVEL[2]
Acetone	89.3	106	BDL[3]	407	BDL	303	31.4	BDL	N/A
2-Butanone	5.4	7.26	BDL	BDL	BDL	BDL	BDL	BDL	200

1 All data presented as micrograms per Liter (ug/L)
2 Value for Toxicity Characteristic (40CFR Part 261.24)
3 BDL: Below detectable limits

PARCEL I PHASE II EBS, VOLATILE ORGANICS
SAMPLE TYPE: SOIL
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-SED-02	B240-SED-03	B240-SED-04	B240-SED-05	B240-SED-06	B240-SED-07	B240-SED-08	B240-SED-09	ALLOWABLE SOIL CONC.[2]	TCLP ALT. GUID. VALUE[3]	REC. SOIL CLEANUP OBJECTIVE (MAX)[4]
2-Butanone	BDL	146	187	BDL	136	BDL	BDL	BDL	3	200	300
Acetone	BDL	**2,210**	**2,800**	**96.3**	**1,240**	**289**	**284**	**245**	1.1	-	200
Carbon disulfide	BDL	BDL	185	BDL	BDL	BDL	57.1	35.7	27	-	2,700
cis-1,2-Dichloroethene[6]	BDL[5]	BDL	230	BDL	BDL	BDL	BDL	BDL	3	-	300
Ethylbenzene	BDL	BDL	132	BDL	BDL	BDL	17.9	21.2	55	-	5,500
m,p-Xylene	BDL	BDL	620	BDL	BDL	BDL	79.1	124	12	-	1,200
o-Xylene	BDL	BDL	270	BDL	BDL	BDL	29.5	99.2	12	-	1,200
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	11.9	BDL	14	14	1,400
Toluene	BDL	BDL	595	BDL	BDL	BDL	BDL	BDL	15	-	1,500

1 All data presented as micrograms per kilogram (ug/kg)
2 Allowable Soil Concentrations (NYSDEC TAGM 4046, 1/94)
3 TCLP Alternative Guidance Value for Toxicity Characteristic (NYSDEC Stars Memo #1, 8/92)
4 Soil Cleanup Objectives and Cleanup Levels (NYSDEC TAGM 4046, 1/94)
5 BDL: Below detectable limit.
6 trans-1,2-dichloroethene values were used in this case

PARCEL I PHASE II EBS, VOLATILE ORGANICS (CONTINUED)
SAMPLE TYPE: SOIL
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-SS-01	B240-SS-02	B247-SED-01	B248-SP-07	B248-SP-10	B248-SP-02	RRS00 0068	RRS00 0073	RRS00 0074	ALLOWABLE SOIL CONC.[2]	TCLP ALT. GUID. VALUE[3]	REC. SOIL CLEANUP OBJECTIVE (MAX)[4]
2-Butanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	200	300
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	-	200
Carbon disulfide	BDL	BDL	**75.2**	BDL	BDL	BDL	BDL	BDL	BDL	27	-	2,700
cis-1,2-Dichloroethene[6]	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	-	300
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	55	-	5,500
m,p-Xylene	BDL	**21.9**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12	-	1,200
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12	-	1,200
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	14	14	1,400
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15	-	1,500

1 All data presented as micrograms per kilogram (ug/kg)
2 Allowable Soil Concentrations (NYSDEC TAGM 4046, 1/94)
3 TCLP Alternative Guidance Value for Toxicity Characteristic (NYSDEC Stars Memo #1, 8/92)
4 Soil Cleanup Objectives and Cleanup Levels (NYSDEC TAGM 4046, 1/94)
5 BDL: Below detectable limits
6 trans-1,2-dichloroethene values were used in this case

PARCEL I PHASE II EBS, GLYCOLS
SAMPLE TYPE: WATER
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-L-FR1	B240-L-FR2	B240-W-01	B240-W-02	B240-W-03	B240-W-04	B240-W-05	B240-W-06
Total Glycol	614	499	0.11	BDL[2]	BDL	BDL	BDL	BDL

1 All data presented as milligrams per Liter (mg/L)
2 BDL: Below detectable limits

PARCEL I PHASE II EBS, GLYCOLS
SAMPLE TYPE: SOIL
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-SED-08	B240-SR-01	RRS00 0068	RRS00 0073	RRS00 0074	REC. SOIL CLEANUP OBJECTIVE (MAX)[2]
Total Glycol	6.0	BDL[3]	BDL	8.96	1.67	N/A

1 All data presented as milligrams per kilogram (mg/kg)
2 TCLP Alternative Guidance Value for Toxicity Characteristic (NYSDEC Stars Memo #1, 8/92)
3 BDL: Below detectable limits

PARCEL I PHASE II EBS, pH
(Various Media)
DETECTED PARAMETERS

DETECTED PARAMETERS	B240-L-FR1	B240-L-FR2	B240-SED-09	B240-SR-01	B247-SED-01	B248-SP-07	B248-SP-10	RRS000 068	CLEANUP OBJ.[1]
pH	7.23	7.29	**6.86**	**10.56**	**7.92**	**8.24**	**7.98**	BDL[2]	7.2-7.5

1 NYSDEC Stars Memo #2, 5/96
2 BDL: Below detectable limits

ATTACHMENT 3
PHOTOGRAPHS

PHASE II EBS
PARCEL 1, ROME RESEARCH SITE
ROME, NEW YORK

LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Phase II EBS Rome Research Site Parcel 1	Lu Project No.: Date:	13124-01 January-01
Photographer:	Greg Andrus		

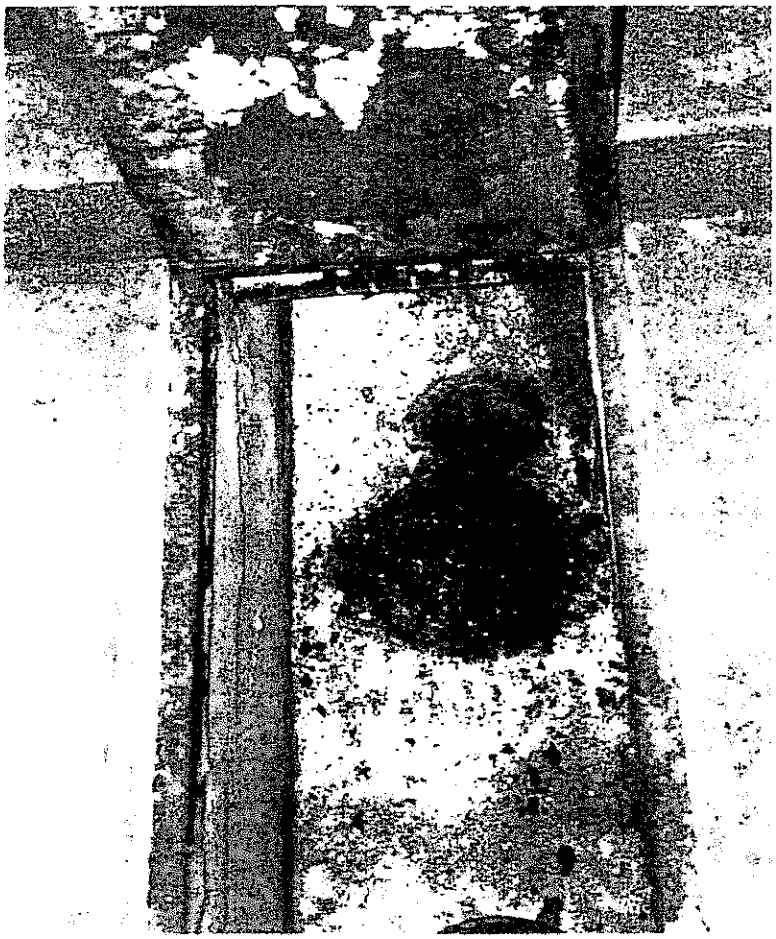
Photograph Description: Staged materials after removal from Fan Room tanks.

LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Phase II EBS Rome Research Site Parcel 1	Lu Project No.: Date:	13124-01 January-01
Photographer:	Greg Andrus		

Photograph Description: B-247 Photo Shop floor drain trench.

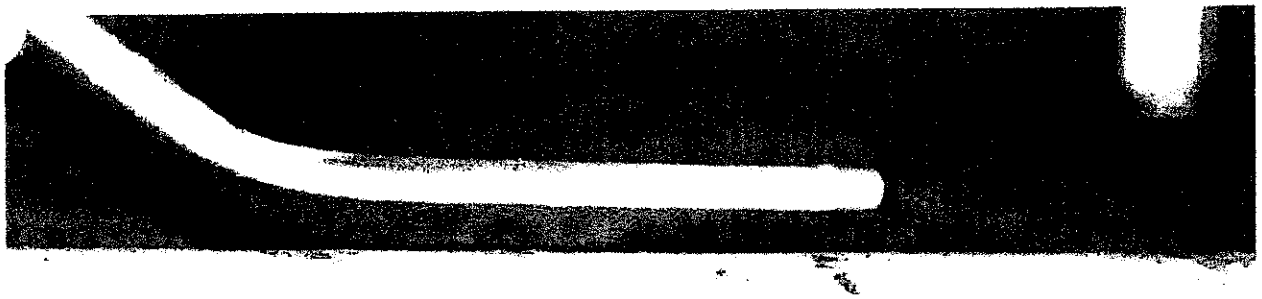


LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Phase II EBS Rome Research Site Parcel 1	Lu Project No.: Date:	13124-01 January-01
Photographer:	Greg Andrus		

Photograph Description: Building 240, Fan Room 1, HVAC Unit interior. Yellowish encrusted material visible.



LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Phase II EBS Rome Research Site Parcel 1	Lu Project No.: Date:	13124-01 January-01
Photographer:	Greg Andrus		

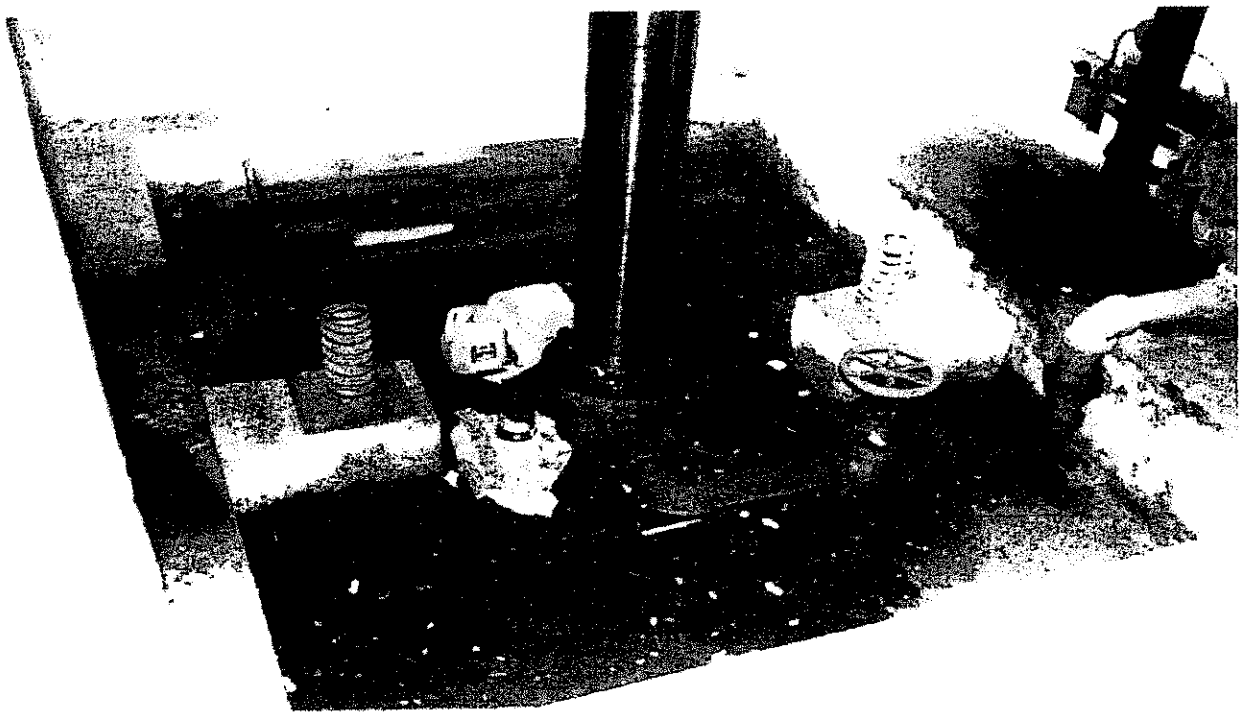
Photograph Description: Geoprobe installing sample point at north end B-248.

LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Phase II EBS Rome Research Site Parcel 1	Lu Project No.: Date:	13124-01 January-01
Photographer:	Greg Andrus		

Photograph Description: Elevator pit at B-240 basement level with visible oil staining.

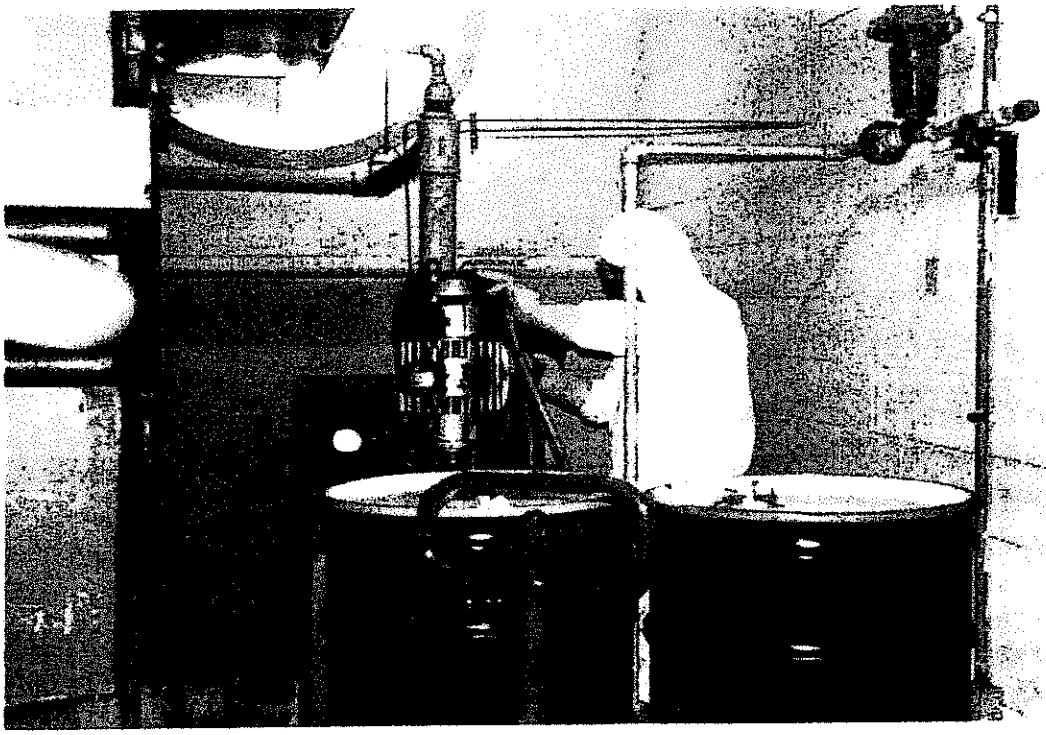


LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Phase II EBS Rome Research Site Parcel 1	Lu Project No.: Date:	13124-01 January-01
Photographer:	Jessica Patten		

Photograph Description: Removal of hazardous liquids from Fan Room 1 tank.

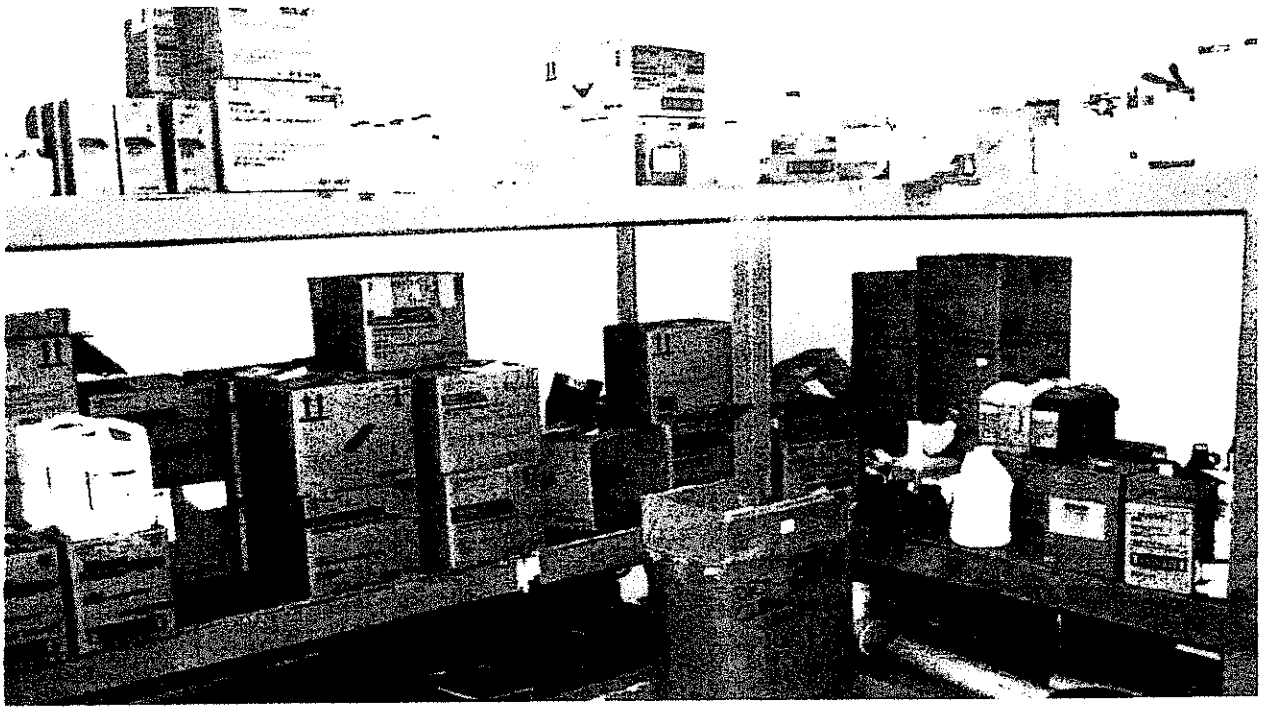


LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Phase II EBS Rome Research Site Parcel 1	Lu Project No.: Date:	13124-01 January-01
Photographer:	Jessica Patten		

Photograph Description: Photographic chemicals in storage room at B-247 photo lab.



LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Phase II EBS Rome Research Site Parcel 1	Lu Project No.: Date:	13124-01 January-01
Photographer:	Jessica Patten		

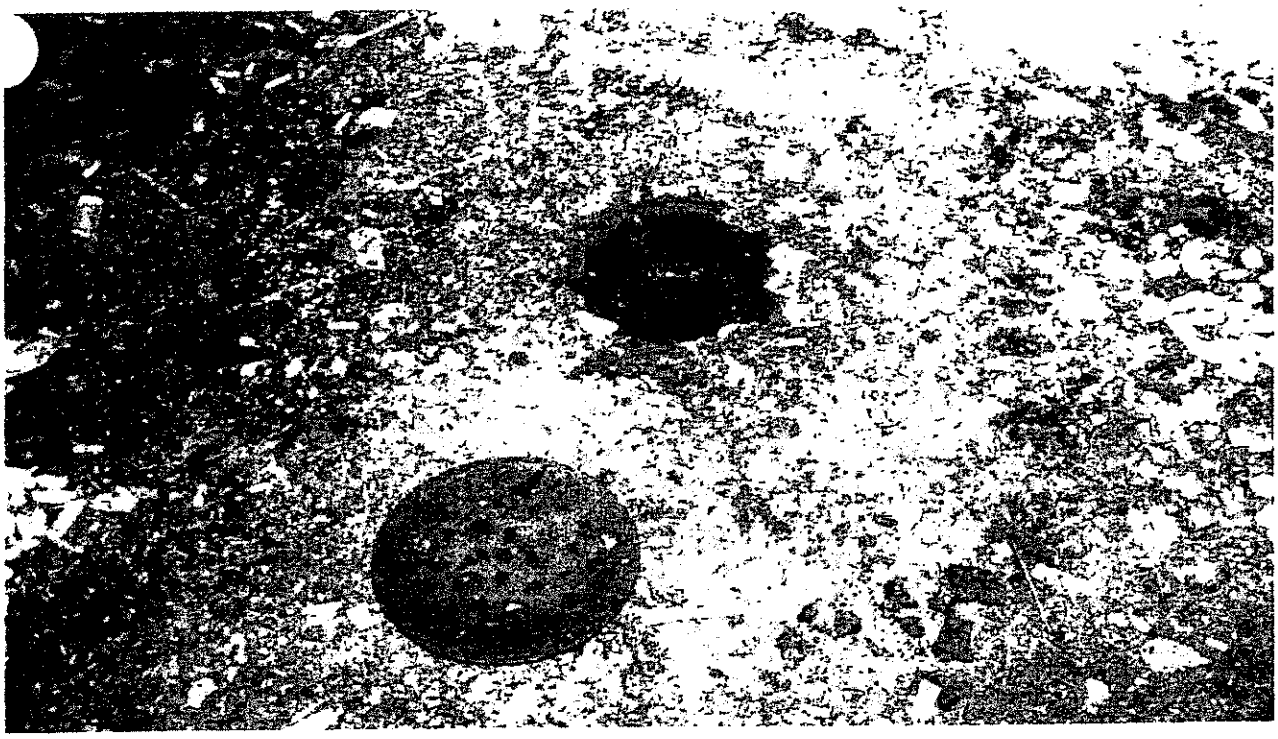
Photograph Description: Typical caged storage area during inspection.

LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Phase II EBS Rome Research Site Parcel 1	Lu Project No.: Date:	13124-01 January-01
Photographer:	Greg Andrus		

Photograph Description: Area drain inlet at east end of B-240 basement.



LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Phase II EBS Rome Research Site Parcel 1	Lu Project No.: Date:	13124-01 January-01
Photographer:	Greg Andrus		

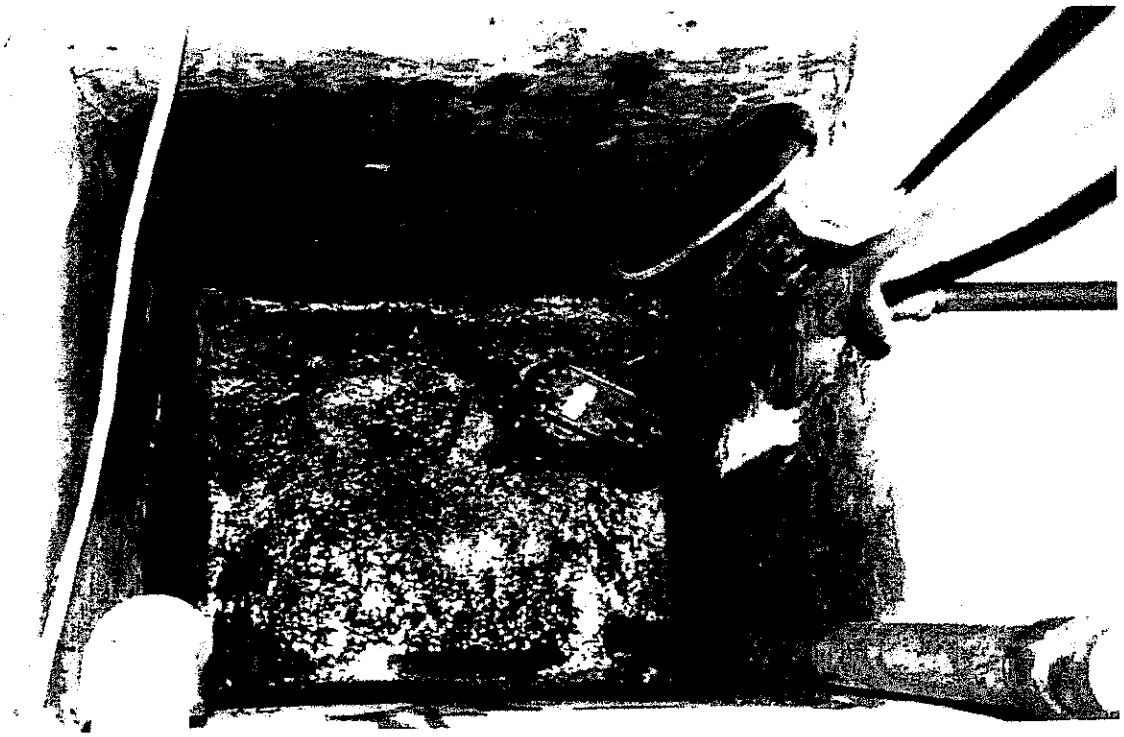
Photograph Description: Building 240, Sump #5 after completion of vacuum cleaning.

LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Phase II EBS Rome Research Site Parcel 1	Lu Project No.: Date:	13124-01 January-01
Photographer:	Greg Andrus		

Photograph Description: Building 240, Sump #7 after completion of vacuum cleaning.

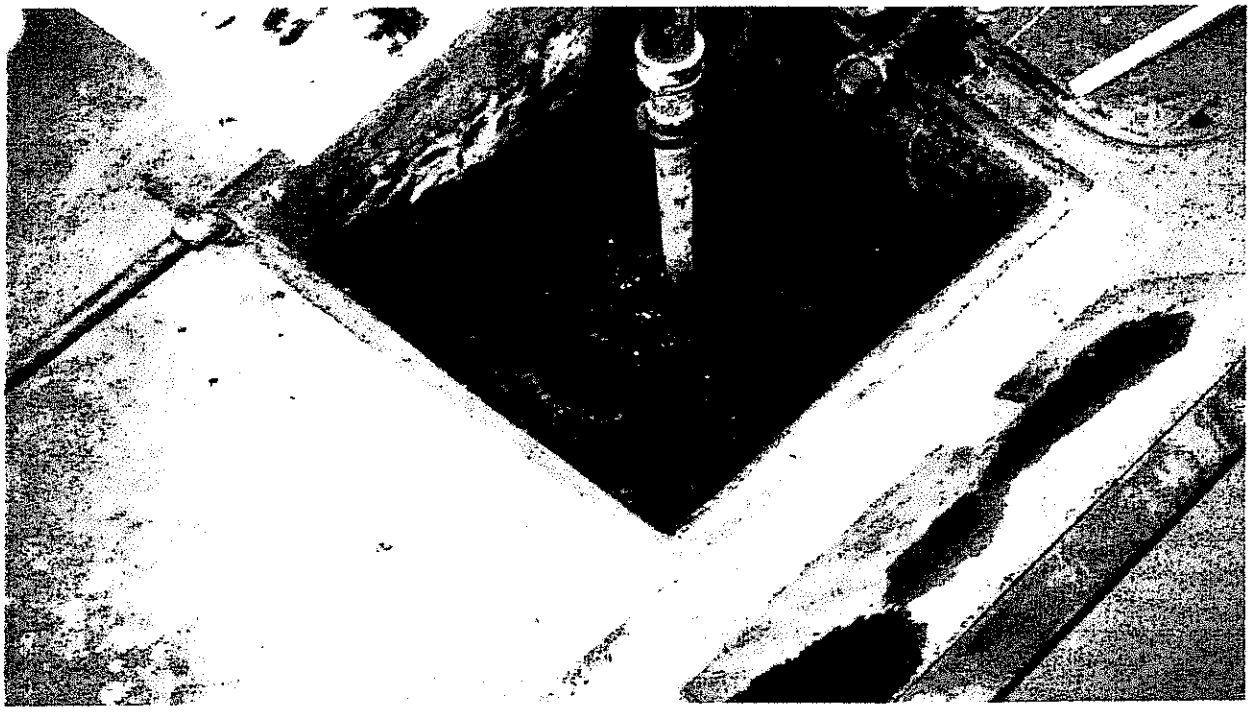


LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Phase II EBS Rome Research Site Parcel 1	Lu Project No.: Date:	13124-01 January-01
Photographer:	Greg Andrus		

Photograph Description: Building 240, Sump #2 after completion of vacuum cleaning.

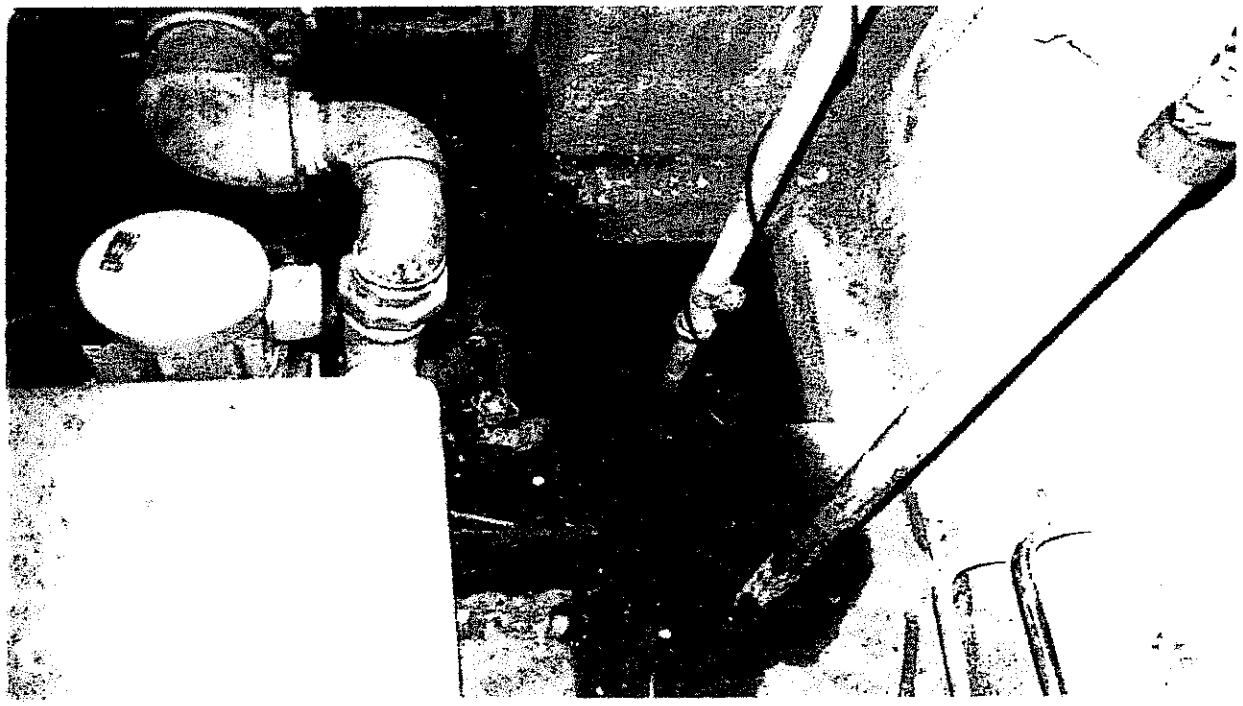


LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Phase II EBS Rome Research Site Parcel 1	Lu Project No.: Date:	13124-01 January-01
Photographer:	Greg Andrus		

Photograph Description: Building 240, Sump #4 after completion of vacuum cleaning.



APPENDIX G3

CORRECTIVE ACTION – FEBRUARY 2003

ENVIRONMENTAL BASELINE SURVEY
PARCEL 1, ROME RESEARCH SITE
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

LU ENGINEERS
Civil and Environmental

MEMORANDUM 02/27/03

To: Mike Bamberger, AFRL RRS/IFOCV
From: Greg Andrus
RE: RRS Griffiss Properties, Hazardous Materials Corrective Action Status
Parcel 1 (B-240, 247 and 248)

This memorandum is intended as an interim update to the Environmental Baseline Survey (EBS) currently being completed for Parcel 1. The current corrective action project is a continuation of the EBS currently in progress for RRS properties located at the Griffiss Business and Technology Park.

Background

From May through September 2002, Lu Engineers conducted hazardous materials corrective action and related work on four previously identified EBS areas of concern (AOCs) associated with the Annex basement at Building 240 (B-240). This work was conducted at the request of RRS in order to mitigate concerns relating to the presence of abandoned hazardous materials and contaminated surfaces associated with the following EBS AOCs:

- AOC-B240-01, Chiller Solution Tanks
- AOC-B240-02, Basement Floor Drains and Sumps
- AOC-B240-03, B-240 Elevator Shaft
- AOC-B240-04, Oil-Stained Areas in Basement

The location of each of these AOCs is indicated on the plans provided as Attachment 1.

This corrective action process was designed to address recommendations made as part of Phase II EBS sampling and testing conducted during 2001. The findings of this previous work are summarized in a memorandum, dated March 2001 from Lu Engineers to RRS. The following sections provide brief summaries of the EBS findings leading up to the corrective action phase of this project.

AOC-B240-01, Chiller Solution Tanks

Sampling and testing were conducted in December 2000 and January 2001 in order to characterize Phase I EBS findings associated with the abandoned heating, ventilation and air conditioning (HVAC) equipment located in the northern area of the B-240 basement.

A total of approximately 200 gallons of residual brine liquid was found to be contained in two small steel tanks, one located in each of the two fan rooms. The liquid contained hazardous levels of chromium and cadmium, as well as acetone and 2-butanone at non-hazardous levels. In order to reduce the risk of a potential spill, residual brine waste liquid was removed from small storage tanks associated with this system. This liquid was transferred into appropriate drums by Lu Engineers and disposed of by RRS.

The dehumidifier system was manufactured by Kathabar, Incorporated and was comprised of three components including two identical heat exchanger/dehumidifier units and a single regenerator unit. The regenerator was designed to re-concentrate a lithium chromate solution (trade name: Kathene) that was sprayed over heat exchanger coils while exposed to an air stream within the two dehumidifier units. The Kathene solution is a hydrophilic material that absorbs water vapor when exposed to air. After sufficient exposure, the Kathene became diluted and required re-concentration.

The regenerator unit received diluted Kathene piped from the dehumidifier units and exposed the solution to heater coils to vaporize ("flash") the water out of solution. Re-concentrated Kathene was then piped back to the dehumidifier units. Soon after installation of the dehumidifier system in B-240 in 1968, Kathabar discontinued the use of the lithium chromate Kathene solution in favor of a lithium chloride alternative with lower toxicity.

The small storage tanks were located immediately adjacent to the three main system components. Residual chromium salt contamination was present within, and on concrete floor areas adjacent to the abandoned dehumidifier system in the B-240 Annex basement.

A small amount of friable asbestos was present in the regenerator unit. Several types of non-friable asbestos containing caulk sealant were identified on each of the dehumidifier system components.

Detailed inspection of the abandoned HVAC systems in this area of B-240 indicated that the interior surfaces of the systems located in Fan Rooms 1 and 2 were coated with a crusty yellowish residue. This residue was also present on the floor and abandoned HVAC systems at the west end of the Annex basement. Sampling and testing conducted on this residual material indicated elevated levels of chromium.

AOC-B240-02, Basement Floor Drains and Sumps

The majority of concerns associated with AOC-B240-02 were eliminated when the sumps were cleaned for inspection during the initial Phase II EBS portion of this project in 2001. The possibility exists that additional contamination may remain within the floor drains and piping leading to the sumps. However, it appears likely that only *de minimis* volumes of contaminated materials are present in the floor drains and piping beneath the B-240 basement floor. The only finding warranting corrective action was the presence of PCBs exceeding the EPA limit of 10 $ug/100cm^2$, as identified by wipe sampling of the interior of Sump #2. Appropriate remediation of residual PCBs detected at Sump #2 was recommended to allow re-categorization of this AOC.

AOC-B240-03, B-240 Elevator Shaft

Inspection of the elevator system indicated the presence of widespread staining of the concrete floor of the pit. Stained surfaces appeared to be consistent with long-term, low-volume, hydraulic oil spillage. A small volume of hydraulic fluid is continually wiped from the hydraulic ram in the elevator pit as the elevator operates. This fluid is directed into a small tray that is periodically emptied. No information was available regarding how often this tray is emptied. It appeared that past releases of hydraulic oil in this location may have been associated with overfilling of this tray. Hydraulic oil staining and absorbent material is present around the hydraulic reservoir tank adjacent to the elevator, suggesting a release.

The elevator's hydraulic ram retracts into a casing that extends approximately 45 feet below the ground surface. Other than review of elevator service records, no information is currently available as to the condition of the hydraulic cylinder casing. Elevator system service records were not available to Lu Engineers for review.

Penetration of the elevator pit floor was conducted as part of the continued Phase II EBS work completed in 2002. The findings of this portion of the EBS were transmitted immediately upon receipt from the contract laboratory. Significant soil contamination was not identified by this work and no detectable levels of PCBs were observed beneath the elevator pit floor. A formal memorandum was transmitted with these findings in February 2003.

The concentrations of PCBs detected in the clay sorbent material and residue on the pit floor did not appear to indicate the presence of significant levels of PCB contamination. However, the presence of detectable PCB concentrations associated with AOC-B240-03 warranted clean up of oily residues and sorbent materials. Lu Engineers recommended that oil spill residues be cleaned up and disposed as appropriate.

AOC-B240-04, Oil Stained Areas in the Basement
The March 2001 report indicated the presence of PCB-contaminated oil stains in the following areas of the B-240 basement.

- **Northeast Basement Corner**
  Oil staining was present in two locations within the caged storage area at the northeast corner of the basement. PCB-1260 was detected at 9.6 micrograms per 100 square centimeter wipe (ug/100 cm^2) in sample number B240-SW-04, taken from the south side of the floor in this area. The stain located at the north end of this caged storage area did not yield detectable levels of PCBs, as indicated by sample number B240-SW-01. The level of PCBs identified at the south side of this area approaches the EPA limit of 10ug/100cm^2.
- **Stained Floor Beneath Abandoned HVAC Equipment**
  Oil staining was present on the floor adjacent to two components of the abandoned HVAC compressor unit in the center of the north portion of the B-240 basement, located beneath the B-240 Annex. Two wipe samples, B240-SW-14 and -15, were taken in this location yielding concentrations of PCB-1260 of 13.2 and 7.58 ug/100cm^2, respectively. The total area of stained floor in this location is approximately 10 square feet. The level of PCBs identified by B240-SW-14 exceeded the EPA limit of 10ug/100cm^2. Sample AOC-B240-13 was obtained from the southeast corner of the B-240 basement beneath the Annex. This sample yielded no detectable concentrations of PCBs.

The presence of levels of PCBs approaching the EPA limit of 10ug/100cm^2 at the south side of the northeast basement corner, and exceeding this EPA limit at the floor beneath the abandoned HVAC equipment warranted the recommendation of cleanup for these areas.

Description of Field Activities

All personnel involved with the decommissioning and/or field supervision of work had undergone training as specified by 29 CFR Part 1910 for hazardous waste site operations prior to the time of site work. Field work commenced on June 10, 2002 and continued through June 26, 2002. Lu Engineers personnel were assisted throughout the corrective action process by Mr. Hank Kleaka, Building Manager. Mr. Kleaka provided support in the process of gaining access to all work areas and storage and transfer of equipment, personnel and materials.

Representative photographs of the site work are provided in Attachment 2.

AOC-B240-01, Chiller Solution Tanks

The three components of the dehumidifier system were entirely removed and disposed of as scrap steel. Each work area was isolated using polyethylene sheeting. Ductwork, tanks, motors, internal and external piping, and the steel framework supporting each of the three system components were dismantled manually by Lu Engineers' industrial remediation subcontractor Sentinel Technologies, Incorporated, using power tools including circular and reciprocating saws, drills and pumps. Limited acetylene torch cutting was also conducted. Dust and smoke were ventilated to the building exterior using sewer fans and collapsible ducts.

All system components were thoroughly power-washed and rendered free of chromium residues prior to being manually removed from the work area. Water was collected using small submersible pumps and stored in UN-approved 55-gallon steel drums for eventual transportation and disposal. Composite samples of wastewater produced during this process were relinquished to an accredited laboratory for analysis to facilitate waste profiling. The laboratory analytical report for this sampling is provided as Attachment 3. As indicated in the laboratory report, the wastewater included hazardous levels of chromium, requiring handling and disposal as hazardous waste.

The B-240 elevator was used for lifting the majority of the scrap steel up to the ground level of the building for transfer into a trailer. The trailer was used to haul the scrap to DWR Recycling, Incorporated, located in Rome, New York. A total of approximately 26,000 pounds of scrap steel was taken to the recycling facility.

Concurrent with the dismantling process, the units were rendered asbestos free by a qualified and appropriately licensed and certified subcontractor, New York Environmental Technologies, Incorporated (NYETech). NYETech's pre-abatement qualifications submittals, as required by Lu Engineers, are included in Attachment 4.

Work areas where asbestos abatement was conducted were isolated using a double layer of polyethylene sheeting and ventilated to induce negative pressure using high efficiency particulate air (HEPA) filter systems discharging to the exterior of the building. An airlock system was set up at each location to allow ingress and egress without compromising the negative pressure system. Portions of the units with asbestos were dismantled and disposed of as asbestos-containing solid waste. Disposal documentation for the asbestos containing materials is included as Attachment 5.

Asbestos air sampling was conducted by Lu Engineers during the abatement process. Analytical results did not indicate release of fibers from the work area.

In addition to sampling within the work areas and ventilation exhaust, Lu Engineers also conducted limited sampling for airborne asbestos within occupied areas of B-240. At RRS' request, two air samples were taken in the B-240 Annex during the asbestos abatement process. No detectable levels of airborne asbestos were observed.

Asbestos air monitoring analytical results and project monitoring logs are presented in Attachment 6.

The highest fiber concentration observed was 0.013 fiber per cubic centimeter (f/cc) was taken in the Fan Room 1 work area once the abatement work was finished in that location. The criteria for final air sample results stipulate that the fiber concentration must be either less than 0.01 f/cc or less than background. Background samples were not taken as part of this project since elevated levels of fibers in general were anticipated as a result of the demolition activity at that time. It is contended that no significant release of asbestos occurred during the removal process and that no residual asbestos contamination remains in the work area.

The industry standard analytical method for airborne asbestos analysis, phase-contrast microscopy (PCM), does not differentiate between fiber types. As a result, fibers other than asbestos are counted along with any actual asbestos fibers within a method-specific size range. It is also noted that any asbestos residues remaining after the abatement process would have been eliminated during the final wet cleanup and power-washing conducted in the fan rooms as the final step in the dehumidifier removal process.

The following wastes were generated during the corrective action work conducted on B240-AOC-01:

- A total of nine drums containing water contaminated with chromium levels exceeding the hazardous waste criteria.
- One drum containing a non-hazardous ceramic diffusion media.
- One ton of "friable" asbestos waste material.
- Two tons of "non-friable" asbestos waste material.

Asbestos containing wastes were immediately transported off site to High Acres Landfill by NYETech, an appropriately licensed transporter, upon completion of the asbestos abatement process on June 21, 2002.

Non-asbestos containing wastes were temporarily stored in Fan Room 2 pending profiling and approval at the selected disposal facility. On September 13, 2002, these wastes were transported by Hazmat Environmental Group, Incorporated to CWM Chemical Services, LLC located in Model City, New York. Copies of the Hazardous Waste Manifest and related documentation are included as Attachment 7. The attached documentation also reflects a change made to the manifest as a result of a profiling error. A copy of the discrepancy report documenting the appropriate change made to the shipment and disposal of these materials is also included in Attachment 7.

Subsequent to the AOC-B240-01cleanup work, a small Kathabar unit was discovered near the center of the main B-240 basement. This unit, approximately 8 feet long, 3 feet wide and 8 feet high is located among other, non-hazardous abandoned HVAC ductwork and equipment.

Research and inspection of this unit revealed the presence of both asbestos containing materials and Kathene residue containing hexavalent chromium. Lu Engineers immediately reported these findings to RRS and recommended that the unit be properly cleaned and removed. This work is planned for the 2004 fiscal year.

AOC-B240-02, Basement Floor Drains and Sumps,
AOC-B240-03, B-240 Elevator Shaft and
AOC-B240-04, Oil-Stained Areas in Basement

The location of each areas of oil staining requiring cleanup as part of this corrective action project are indicated on the plan provided in Attachment 1. Each stained area was cleaned by the same process, which included the following steps:

1. Removal of gross debris and grease/oil residues form the surface
2. Scrubbing of floor surfaces using sorbent materials
3. Application of solvent extraction compound (Product Name: "Misty Emulsi Plus")
4. Mechanically scrubbing floor surfaces with the solvent in place
5. Allowing at least 2 hours for solvent penetration
6. Vacuum removal of extraction solvent and re-scrubbing of floor surfaces with sorbents and surfactants
7. Overnight drying
8. Repeating steps 2 through 7
9. Confirmatory sampling

Laboratory analytical results on the PCB cleanup portion of the project indicate that the oil-stained surfaces were successfully cleaned and now meet EPA criteria. The results of all confirmatory sampling for PCBs in the subject areas of B-240 are provided in Attachment 8. Based on these results, no additional cleaning of these surfaces appears to be necessary at the present time.

The oil contained in the abandoned compressor located between Fan Rooms 1 and 2 in the Annex basement does not contain detectable levels of PCBs. This result was somewhat surprising given the fact that the oil that has obviously leaked out of the unit corresponded to a pre-cleanup wipe sample result of 7.5 micrograms per wipe. The most reasonable explanation is that the analytical method used for the oil has a higher detection limit than the wipe method.

The presence of this residual oil does not appear to be a concern with respect to PCBs. However, a recommendation for eventual removal of this residual oil is warranted to avoid future leakage. Sorbent pads were placed beneath the leak as a short-term fix. It is estimated that approximately 50 gallons of oil remains in the unit.

The oil stain cleanup process resulted in the generation of the following wastes:

- 1 drum of water, oil and emulsified oil containing less than 10 ppm PCBs, and
- 1 drum of solid containing less than 10 ppm PCBs.

PCB-contaminated waste disposal documentation is provided in Attachment 9.

Facility Matrix

The following table provides a summary of the EBS status for each of the AOCs identified within Parcel 1:

AOC / BLDG.	AOC NAME	CURRENT EBS STATUS
Building 240		
AOC-B240-01	Chiller Solution Tanks	**EBS Category 5**
AOC-B240-02	Basement Floor Drains and Sumps	EBS Category 4
AOC-B240-03	B-240 Elevator Shaft	EBS Category 4
AOC-B240-04	Oil Stained Areas in the Basement	EBS Category 4
AOC-B240-05	Caged Storage in Basement	EBS Category 1
AOC-B240-06	Abandoned Oils and Miscellaneous Materials	EBS Category 1
AOC-B240-07	Open Pits at Basement Load Centers	EBS Category 3
AOC-B240-08	Former Building Uses	EBS Category 4
AOC-B240-09	B-240 Dry Wells	**EBS Category 5**
AOC-B240-10	Locked Hatch, Southeast Corner B-240	EBS Category 1
AOC-B240-11	Stressed Vegetation along Perimeter Fence	EBS Category 3
AOC-B240-12	Building 240/247/248 Fmr. Drum Storage Area	EBS Category 1
Building 247		
AOC-B247-01	Equipment Room A	EBS Category 1
AOC-B247-02	Photography Laboratory	EBS Category 3
AOC-B247-03	Stained Floor Mechanical Room	EBS Category 2
Building 248		
AOC-B248-01	Stained Floor Mechanical Room	EBS Category 2
AOC-B248-02	Floor Drains and Acid Neutralization Sump	EBS Category 1
AOC-B248-03	B-248 Dry Wells	EBS Category 3
AOC-B248-04	Abandoned Hazardous Materials	EBS Category 4

Note: AOCs classified **above** Category 4 are bold for reference.

Recommendations

AOC-B240-01, Chiller Solution Tanks

It is recommended that the hazardous residues be appropriately removed from the newly identified small Kathabar unit as soon as practicable. It is also recommended that the remaining oil located in the large compressor described previously be removed and recycled/disposed as appropriate.

AOC-B240-03, B-240 Elevator Shaft

It is recommended that this elevator system be serviced as soon as practicable. Service should include the installation of new seals on leaking hydraulic lines and the hydraulic ram. The integrity of the hydraulic ram casing, which extends approximately 45 feet below the basement floor, should also be tested to ensure it will not leak into the surrounding soils and groundwater.

ATTACHMENT 1

REFERENCE PLANS

HAZARDOUS MATERIALS CORRECTIVE ACTION
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

FEBRUARY 2003

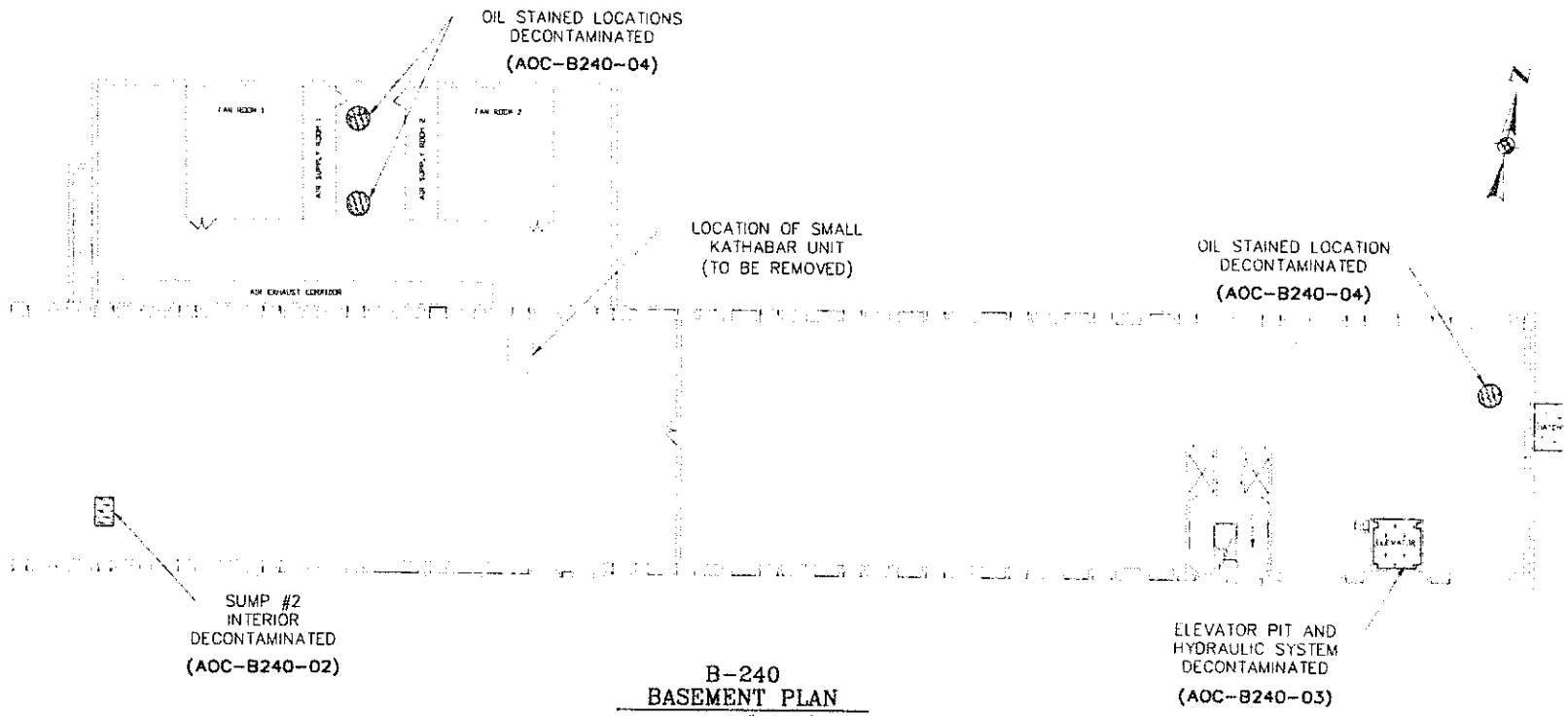
LU ENGINEERS
Civil and Environmental
JOSEPH C. LU ENGINEERING AND SURVEYING, PLLC
2310 PENFIELD ROAD
PENFIELD, NEW YORK 14526
(585) 377-1450
FAX (585) 377-1266

PROJECT TITLE:
RRS B240
CORRECTIVE ACTION

DRAWING TITLE:
BASEMENT
PLAN
AOC-B240-02, 03 & 04

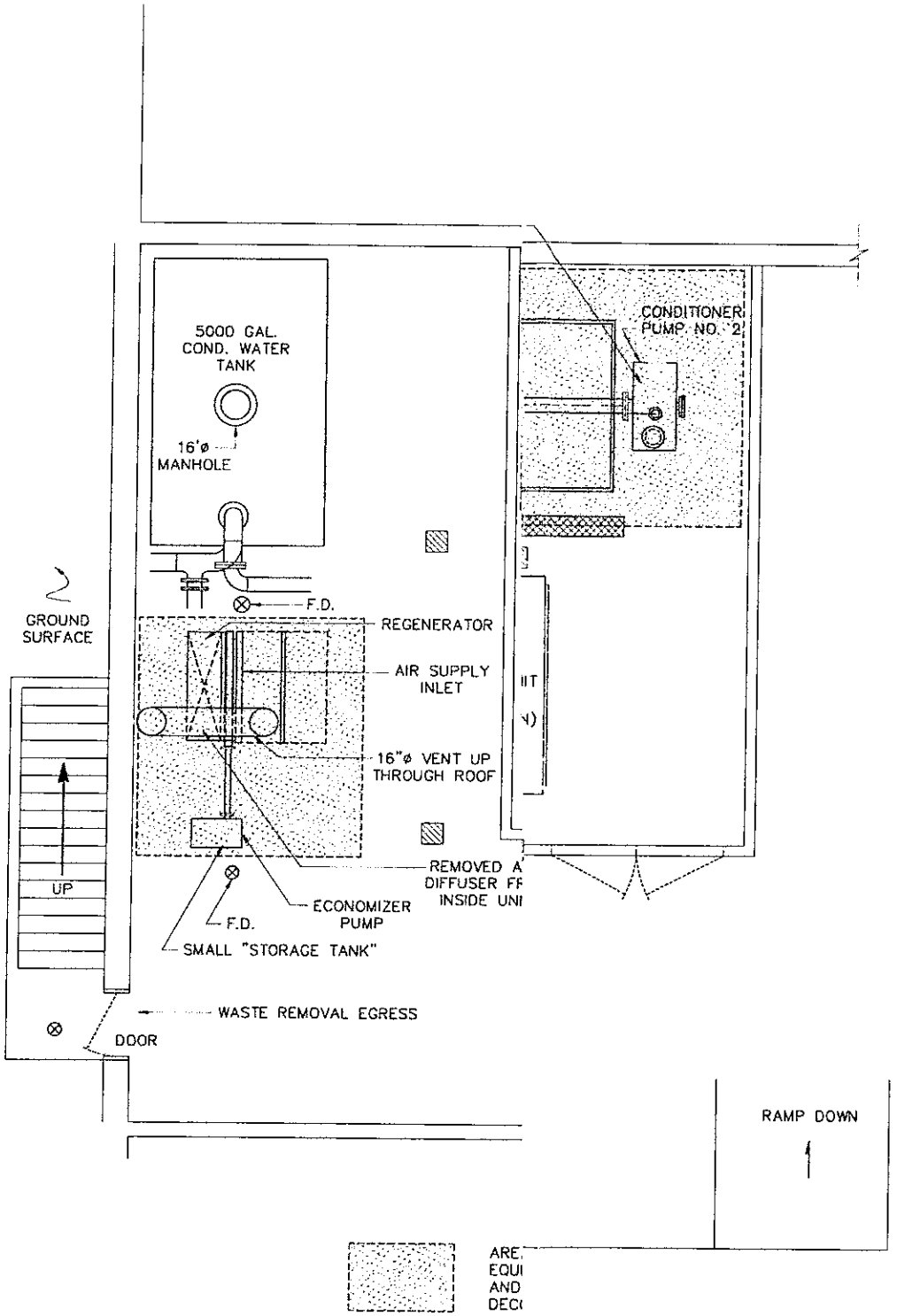
DRAWING NO.:
DATE: FEB. 2003
SCALE: AS SHOWN

DESIGNED BY: GLA
DRAWN BY: DLS
CHECKED BY: GLA



B-240
BASEMENT PLAN
SCALE: 1" = 40'

GRAPHIC SCALE
0 20 40 80
(IN FEET)
1 inch = 40 ft.



GRAPHIC SCALE

0 4 8 16

(IN FEET)
1 inch = 8 ft.

LU ENGINEERS
Civil and Environmental

JOSEPH C. LU ENGINEERING AND
LAND SURVEYING, P.C.
2230 PENFIELD ROAD
PENFIELD, NEW YORK 14526
(585) 377-1450
FAX: (585) 377-1266

REVISIONS:

NO.	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			

PROJECT TITLE:

RRS B240
CORRECTIVE ACTION

DRAWING TITLE:

BASEMENT ANNEX
PARTIAL PLAN

AOC-B240-01

DESIGNED BY:	GLA
DRAWN BY:	DLS
CHECKED BY:	GLA
SCALE:	AS SHOWN

CAD FILE: RRS-B240.dwg

SHEET ___ OF ___

DRAWING NO.:

DATE: FEB. 2003

X.X

J:\13124\C RS-B240.dwg Wed Feb 26 08:48:12 2003 ds

ATTACHMENT 2

REPRESENTATIVE PHOTOGRAPHS

HAZARDOUS MATERIALS CORRECTIVE ACTION
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

FEBRUARY 2003

LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Corrective Action Rome Research Site, Parcel 1 Rome, New York	Lu Project No.: Date:	13124-05 June-02
Photographer:	Greg Andrus		

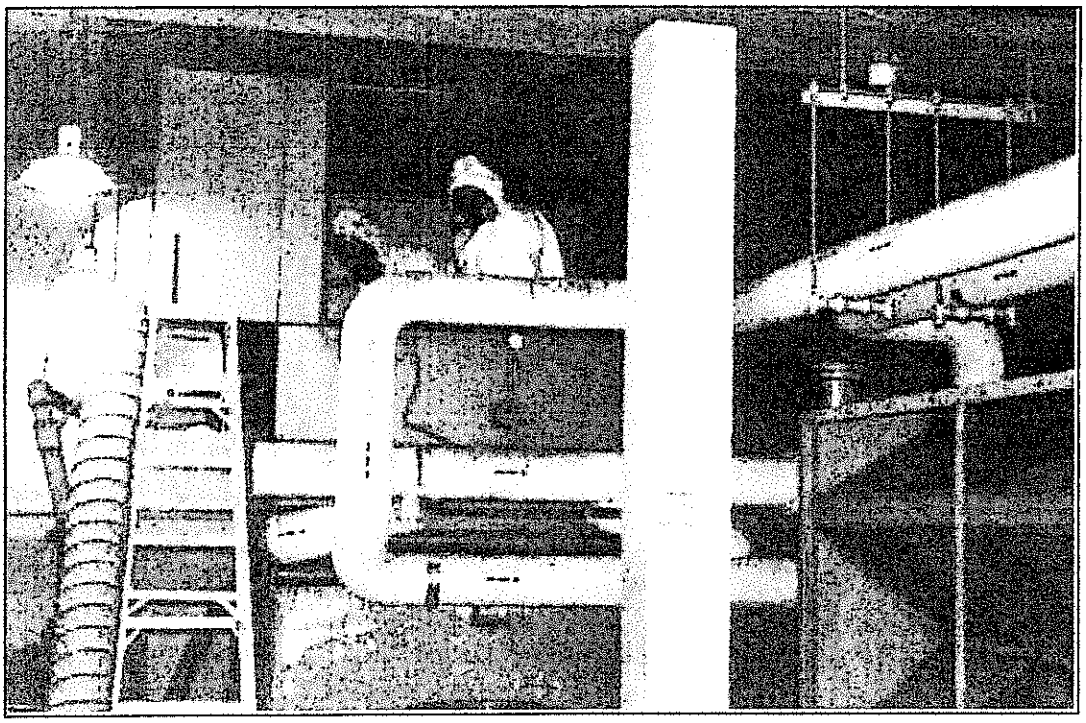
Photograph Description: Post-cleanup photo of stained area in northeastern basement caged storage area

LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Corrective Action Rome Research Site, Parcel 1 Rome, New York	Lu Project No.: Date:	13124-05 June-02
Photographer:	Greg Andrus		

Photograph Description: Workers beginning disassembly of Kathabar unit in Fan Room #1

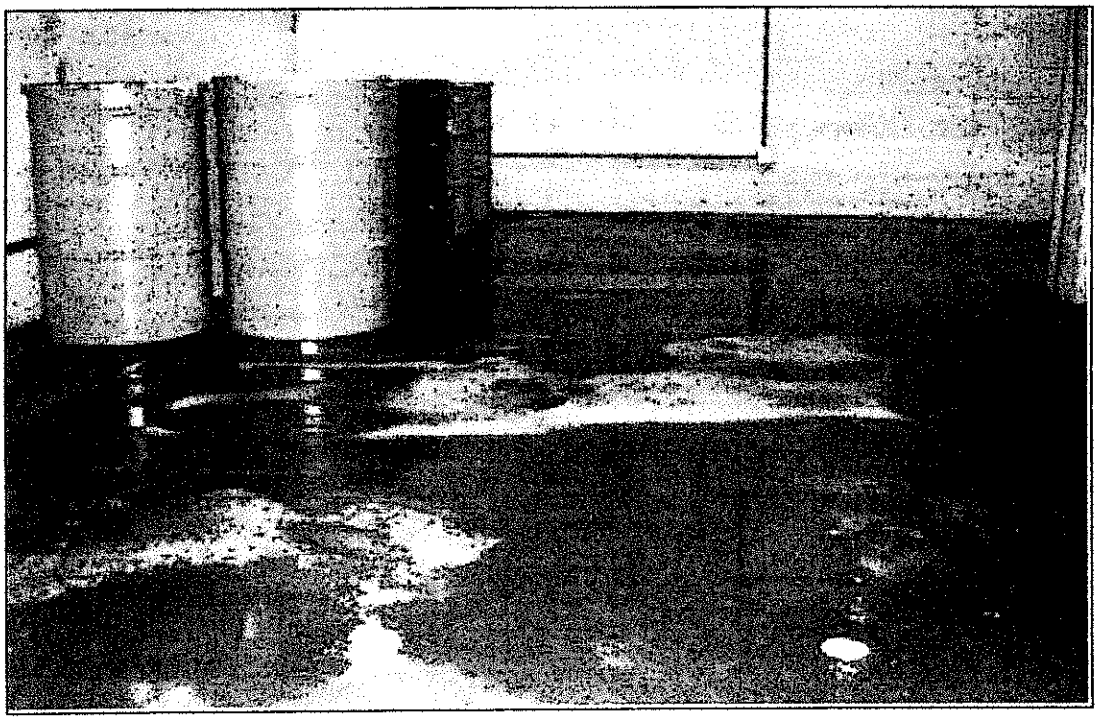


LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Corrective Action Rome Research Site, Parcel 1 Rome, New York	Lu Project No.: Date:	13124-05 June-02
Photographer:	Greg Andrus		

Photograph Description: Staged hazardous wastes located in Fan Room 2 in former location of Kathabar unit.

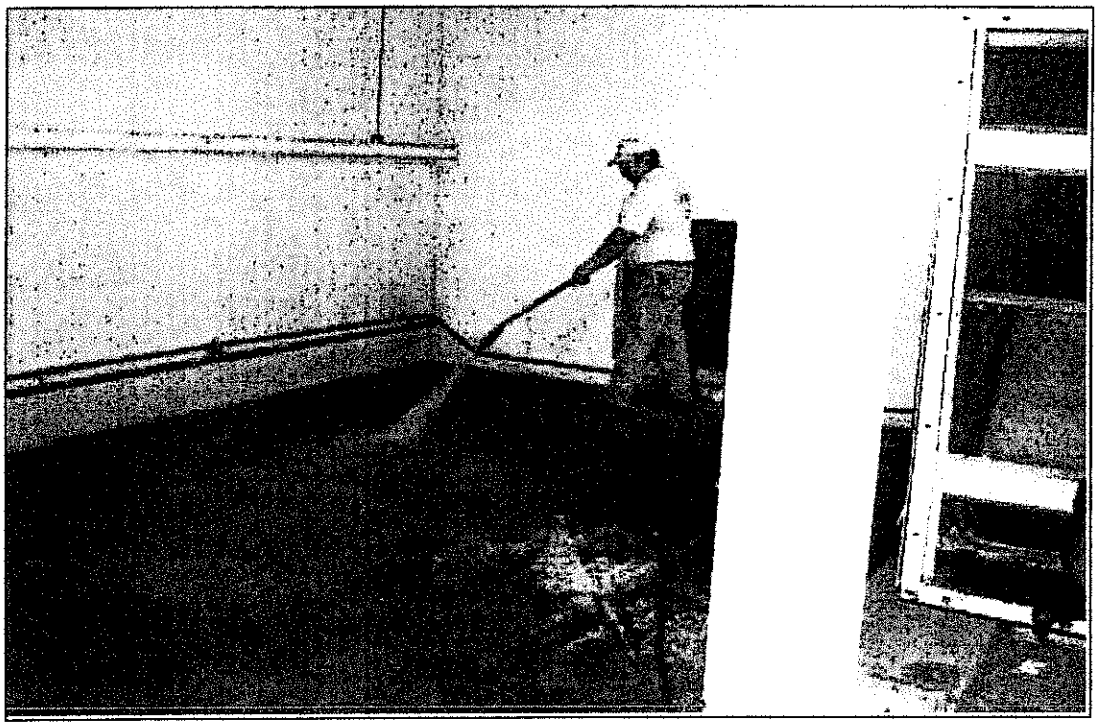


LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Corrective Action Rome Research Site, Parcel 1 Rome, New York	Lu Project No.: Date:	13124-05 June-02
Photographer:	Greg Andrus		

Photograph Description: Conducting final power washing of Fan Room 2 floor.

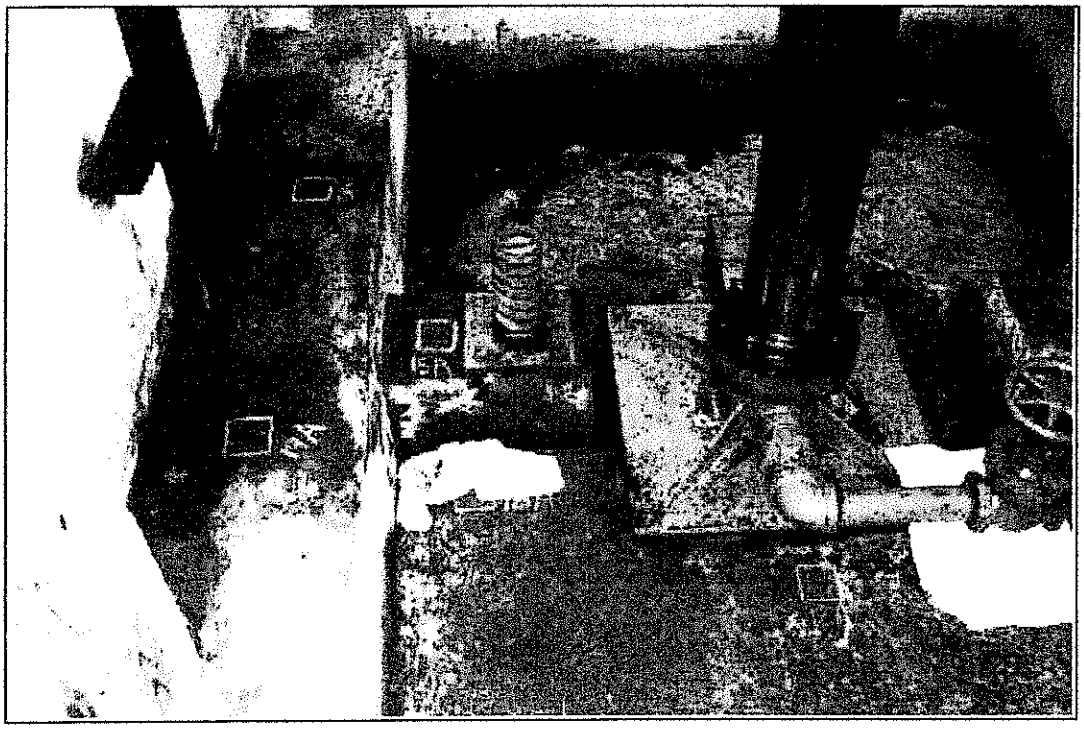


LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Corrective Action Rome Research Site, Parcel 1 Rome, New York	Lu Project No.: Date:	13124-05 June-02
Photographer:	Greg Andrus		

Photograph Description: Post-cleanup photo of elevator pit. Confirmatory sample locations are visible as yellow squares.

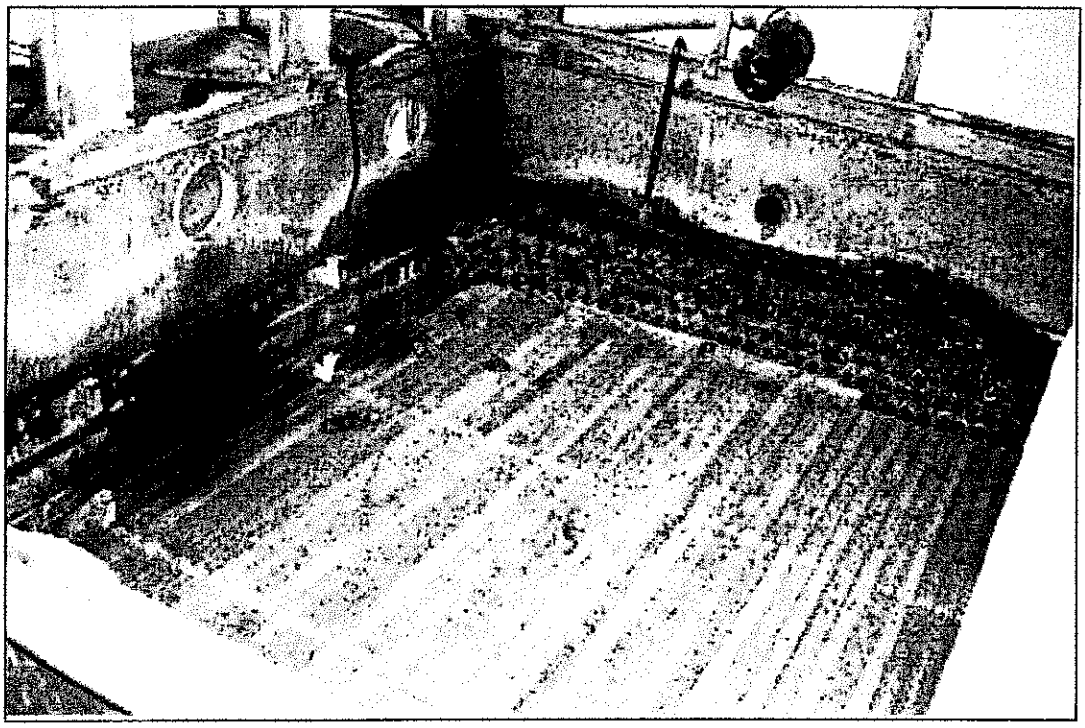


LU ENGINEERS
2230 Penfield Road
Penfield, New York 14526

PHOTOGRAPH IDENTIFICATION SHEET

Project Title:	Corrective Action Rome Research Site, Parcel 1 Rome, New York	Lu Project No.: Date:	13124-05 June-02
Photographer:	Greg Andrus		

Photograph Description: Internal view of coils within Kathabar unit in Fan Room 2. Yellow chromium-contaminated residue visible.



ATTACHMENT 3

B240-AOC-01 WASTE SAMPLING ANALYTICAL REPORT

HAZARDOUS MATERIALS CORRECTIVE ACTION
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

FEBRUARY 2003

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: RRS-B240

Client Job No.: N/A

Lab Project No.: 02-1500

Sample Type: Water
Method: EPA 9040

Date(s) Sampled: 06/14/2002
Date Received: 06/14/2002

Date Analyzed: 06/14/2002

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
5587	N/A	B240-FRW-1A	9.11

ELAP ID No.: 10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID:021500

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

LABORATORY REPORT OF ANALYSIS

Client: Lu Engineers

Client Job Site: RRS B240

Client Job No.: N/A

Lab Project No.: 02-1500

Sample Type: Water
Analytical Method: EPA 335.3
Date Sampled: 06/14/2002
Date Received: 06/14/2002
Date Analyzed: 06/19/2002

Lab Sample ID.	Sample Location/Field ID	Total Cyanide (mg/l)
5587	B240-FRW-1A	ND<0.01

ELAP ID No. 10709

Comments: ND denotes Non-Detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: TCyanide021500.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: RRS-B240

Client Job No.: N/A

Field Location: B240-FRW-1A
Field ID No.: N/A

Lab Project No.: 02-1500
Lab Sample No.: 5587

Sample Type: Water

Date Sampled: 06/14/2002
Date Received: 06/17/2002

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	06/17/2002	SW846 6010	<0.005
Barium	06/17/2002	SW846 6010	0.879
Cadmium	06/17/2002	SW846 6010	0.199
Chromium	06/17/2002	SW846 6010	6.67
Lead	06/17/2002	SW846 6010	0.081
Mercury	06/18/2002	SW846 7471	0.00027
Selenium	06/17/2002	SW846 6010	<0.005
Silver	06/17/2002	SW846 6010	<0.010
Zinc	06/19/2002	SW846 6010	88.6

ELAP ID No.:10958

Comments:

Approved By: _____

Bruce Hoogestager, Technical Director

Chain of Custody provides additional sample information.

File ID: 021500

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site:	RRS-B240	**Lab Project Number:**	02-1500
		Lab Sample Number:	5587
Client Job Number:	N/A		
Field Location:	B240-FRW-1A	**Date Sampled:**	06/14/2002
Field ID Number:	N/A	**Date Received:**	06/14/2002
Sample Type:	Water	**Date Analyzed:**	06/21/2002

Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00
Bromomethane	ND< 2.00
Bromoform	ND< 2.00
Carbon tetrachloride	ND< 2.00
Chloroethane	ND< 2.00
Chloromethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00
Chloroform	8.59
Dibromochloromethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	ND< 2.00
trans-1,2-Dichloroethene	ND< 2.00
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Methylene chloride	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	ND< 2.00
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	ND< 2.00
Trichlorofluoromethane	ND< 2.00
Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L
Benzene	ND< 0.700
Chlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00
Toluene	ND< 2.00
m,p - Xylene	ND< 2.00
o - Xylene	ND< 2.00
Styrene	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00

Ketones	Results in ug / L
Acetone	86.0
2-Butanone	12.0
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

ELAP Number 10958 Method: EPA 8260B Data File: 60289.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021500V1.XLS

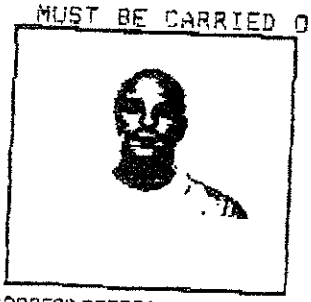
ATTACHMENT 4

ASBESTOS ABATEMENT QUALIFICATIONS

HAZARDOUS MATERIALS CORRECTIVE ACTION
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

FEBRUARY 2003

MUST BE CARRIED ON ASBESTOS PROJECTS



CERTIFICATE NUMBER	
AH 01-09061	
EXPIRES	
SOCIAL SECURITY NUMBER	
132-72-5044	
EYES	HAIR
HAZ	BRO
WEIGHT	HEIGHT
190lbs.	ft. in.

ADDRESS CORRESPONDENCE TO:
(Include certificate number)
NYS Department of Labor
DOSH - License and Certificate Unit
PO Box 687, New York, NY 10014-0687

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASS
5 - SUPERVISOR (02/03)

DANIEL D FORTE
38 CHURCH STREET
LEROY, NY 14482

RICHARD CUCOLO, Director - For the Commissioner of Labor

nyetech
New York Environmental Technologies, Inc.

QUALITATIVE FIT-TEST RECORD

This record represents a factual account of a Qualitative Fit-Test conducted on the below named individual and specifies the type of test that was conducted.

Name Dan Forte

Signature Dan Forte Date 6/5/02

Location: Environmental Products & Services, Inc.

Name of Fit-Tester: Environmental Products & Services, Inc.

Fit-Test conducted by Amy Muinster

Signature Amy Muinster Date 6/5/02

Type of Mask Full Face Irritant Smoke/Banana Oil

Manufacturer Draeger Pass/Fail

Model Panorama Nova Size

Type of Mask Irritant Smoke/Banana Oil

Manufacturer Pass/Fail

Model Size

Additional Comments

PO Box 24398 • Rochester, NY 14624 230 McKee Rd. • Rochester, NY 14611 www.nye-tech.com (716) 436-5660 Fax: (716) 436-6139

003 NY ENV TECH INC 17164366139 13:31 06/13/02

Environmental
PRODUCTS & SERVICES, INC.
Corporate Office: P.O. Box 315, Syracuse, NY 13209-0315
315-471-0503 800-THE-TANK FAX 315-475-8920

QUALITATIVE FIT-TEST RECORD

This record represents a factual account of a Qualitative Fit-Test conducted on the below named individual and specifies the type of test that was conducted.

Name DAN FORTE

Signature Dan Forte Date 9-13-01

Location: Environmental Products & Services, Inc.

Name of Fit-Tester: Environmental Products & Services, Inc.

Fit-Test conducted by TODD KUBEK

Signature Todd Kubek Date 9-13-01

Type of Mask DRA FULL FACE Irritant Smoke/Banana Oil

Manufacturer DRAGER Pass/Fail

Model PANORAMA NOVA Size MEDIUM

Type of Mask _____ Irritant Smoke/Banana Oil

Manufacturer _____ Pass/Fail

Model _____ Size _____

Additional Comments _____

06/13/02 13:32 NY ENV TECH INC 17164366139 004

New York State Department of Health Certificate of Asbestos Safety Training

certificate is the only documentation acceptable for purposes of state reciprocity among the Consortium of Northeast States.

Certificate No. 321364

I - To be completed by trainee

me of trainee (print): Daniel D Forte	Social Security Number: 132-72-5044
Name of trainee (signature): Daniel D Forte	Telephone Number: (716) 768-4919
Address: 38 ~~Church~~ CHURCH St. LeRoy NY 14482 (Street or PO Box) (City) (State) (Zip Code)	

II - To be completed by training sponsor

Sponsor's Name: PARADIGM	Telephone Number: (716) 546-4053
Address: 460 State Street Rochester NY	Zip Code: 14608
	Course Location: Paradigm

Course Title: Supervisor Initial

Language of Training: [X] English [ ] Other: _____ Exam Grade: 87%

Dates of Training: From: 5/14/01 To: 5/18/01 Expires: 5/18/02

I certify that the asbestos safety training course given on the above date complied with both 10NYCRR Part 73 and TSCA Title II, was consistent with the curriculum and instructors approved by the New York State Department of Health, and the student receiving this certificate completed the training course and successfully passed the examination.

Course Director: A BRAGG (Printed) [signature] (Signature) STUDENT

H-2832 (7/98)

06/13/02 13:32 17164366139 NY ENV TECH INC 005

EmpScreen

THE GALLERIES TOWER, 441 SOUTH SALINA STREET
P. O. BOX 5070
SYRACUSE, NEW YORK 13250-5070
(315) 472-4990
FAX (315) 474-6034

NON MANDATED DRUG SCREEN

Results of Controlled Substance Test

Name: Daniel Forte

Company: Environmental Prod/Serv.
P O Box 315
Syracuse, NY 13209

Reason for test:

[x] Post Offer
[ ] Periodic Medical
[ ] Random
[ ] Reasonable Doubt
[ ] Post Accident
[ ] Other (specify) follow-up

Date of drug test (collection date): 5/21/01

Location of test (collection site): Riverfront Medical Services, P.C.
259 Alexander Street
Rochester, NY 14607

The identity of the person or entity performing the test(laboratory): MedTox

Test results (check only one):

[x] Negative
or
[ ] Positive

Name of MRO: Dr. Usha Raghavan, M.D.

Date: 5/22/01

erfront Medical Services,® P.C.

259 ALEXANDER STREET
ROCHESTER, NEW YORK 14607-2595
(716) 325-3000
FAX (716) 325-3678

NAME: Daniel Forte

DATE: 05/21/01

X-RAY NO: 54

CHEST: A single PA view of the chest reveals the heart to be of normal size and shape. The lung fields are clear. No pleural abnormality is seen. The lung roots and mediastinum appear normal. No abnormality of the bony thorax is detected.

A 1.5 c.m. metallic nipple ring is noted on the right side.

CONCLUSIONS: Normal heart and lungs.

Harry J. Pinsky, M.D.
Radiologist

HJP/nm

007 NY ENT TECH INC 17164366139 13:33 06/13/02

MUST BE CARRIED ON ASBESTOS PROJECTS

CERTIFICATE NUMBER
AH 94-00703

EXPIRES

SOCIAL SECURITY NUMBER
130-56-2138

EYES	HAIR
BRO	BLK

WEIGHT	HEIGHT
200 lbs.	ft. in.

ADDRESS CORRESPONDENCE TO:
(Include certificate number)
NYS Department of Labor
DOSH - License and Certificate Unit
PO Box 697, New York, NY 10014-0697

1504730

DOSH-442 (01/91)

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASS
G - SUPERVISOR (07/02)

PRESTON L LAWRENCE
10 CAFFERY PLACE
ROCHESTER, NY 14608

RICHARD CUCOLO, Director - For the Commissioner of Labor

DOSH-442 (01/91)

New York State Department of Health Certificate of Asbestos Safety Training

This certificate is the only documentation acceptable for purposes of interstate reciprocity among the Consortium of Northeast States. Certificate No. 333912

I - To be completed by trainee

Name of trainee (print):	Social Security Number:
Preston Lawrence	130-56-2138
Name of trainee (signature):	Telephone Number:
	(716) 266-3425

Address: 10 Caffery Place

(Street or PO Box) ~~[illegible]~~ (City) Roch (State) NY (Zip Code) 14608

II - To be completed by training sponsor

Sponsor's Name:	Telephone Number:
Envoteen	716-783-1465
Address: 8 Cairn St. Rochester, NY	Zip Code: 14611
	Course Location: Envoteen

Course Title: Contractor/Supervisor Refresher

Language of Training: [X] English [ ] Other: _____ Exam Grade: 80%

Dates of Training: From: 7/12/01 To: 7/12/01 Expires: 7/12/02

I certify that the asbestos safety training course given on the above date complied with both 10NYCRR Part 73 and TSCA Title II, was consistent with the curriculum and instructors approved by the New York State Department of Health, and the student receiving this certificate completed the training course and successfully passed the examination.

Course Director: Darlene Graham (Printed) Darlene L. Graham (Signature) SPONSOR

332 (7/98)

Environmental
PRODUCTS & SERVICES

QUALITATIVE FIT-TEST RECORD

This record represents a factual account of a Qualitative Fit-Test conducted on the below named individual and specifies the type of test that was conducted.

Name Preston Lawrence

Signature [signature] Date 5/30/01

Location: Environmental Products & Services, Inc.

Name of Fit-Tester: Environmental Products & Services, Inc.

Fit-Test conducted by DLMURPHY

Signature Deborah A Murphy Date _____

Type of Mask Draeger Irritant Smoke/Banana Oil

Manufacturer _____ Pass/Fail

Model full face Size large

Type of Mask _____ Irritant Smoke/Banana Oil

Manufacturer _____ Pass/Fail

Model _____ Size _____

Additional Comments _____

06/13/02 13:34 17164366139 NY ENV TECH INC 010

Re: Preston Lawrence

Social Security #: 130562138

Date Examined: 9-20-01

Employer: N.Y. Enviro.

Dear Deb Murphy:

After conducting a physical evaluation on the above named individual including a:

- ☐ review of their past medical history
- ☐ a pulmonary function test
- ☐ a chest x-ray
- ☐ Other
- ☐ QUESTIONNAIRE only

I have determined that he/she is physically and medically qualified to wear respirator protection in accordance with OSHA 1910.134.

Recommendations

- ☑ Found fit to use the following respirators
  - ☐ Filter Respirator (Dust mask)
  - ☐ Cartridge Respirator - Negative Pressure
  - ☐ Powered Air-Purifying Respirator (PAPR)
  - ☐ Supplied Air Respirator
  - ☐ Self Contained Breathing Apparatus (SCBA)

Comments:

- ☐ I have provided the employee with a written recommendation regarding the employee's ability to use a respirator.
- ☑ I have not provided the employee with a written recommendation regarding the employee's ability to use a respirator.

9/20/01
Date

Signature of Examining Personnel

Updated 6/16/99

RMF0251

Environmental
PRODUCTS & SERVICES

QUALITATIVE FIT-TEST RECORD

This record represents a factual account of a Qualitative Fit-Test conducted on the below named individual and specifies the type of test that was conducted.

Name Frank Smith

Signature Frank Smith Date 5/30/01

Location: Environmental Products & Services, Inc.

Name of Fit-Tester: Environmental Products & Services, Inc.

Fit-Test conducted by DL MURPHY

Signature DLMurphy. Date 5/30/01

Type of Mask Dräger Irritant Smoke/Banana Oil

Manufacturer _____ Pass/Fail

Model full face Size large

Type of Mask _____ Irritant Smoke/Banana Oil

Manufacturer _____ Pass/Fail

Model _____ Size _____

Additional Comments _____

06/13/02 13:34 ☎17164366139 NY ENV TECH INC 012

Re: Frank Smith

Social Security #: 099-54-7040

Date Examined: 9/20/01

Employer: NY Environmental

Dear: Deb Murphy:

After conducting a physical evaluation on the above named individual including a:

- ☐ review of their past medical history
- ☐ a pulmonary function test
- ☐ a chest x-ray
- ☐ Other
- ☐ QUESTIONNAIRE only

I have determined that he/she is physically and medically qualified to wear respirator protection in accordance with OSHA 1910.134.

Recommendations

- ☑ Found fit to use the following respirators
  - ☑ Filter Respirator (Dust mask)
  - ☑ Cartridge Respirator - Negative Pressure
  - ☑ Powered Air-Purifying Respirator (PAPR)
  - ☑ Supplied Air Respirator
  - ☑ Self Contained Breathing Apparatus (SCBA)

Comments:

- ☐ I have provided the employee with a written recommendation regarding the employee's ability to use a respirator.
- ☑ I have not provided the employee with a written recommendation regarding the employee's ability to use a respirator.

9/20/01
Date

Signature of Examining Personnel

Updated 5/15/99

RMF0251

MUST BE CARRIED ON ASBESTOS PROJECTS

ADDRESS CORRESPONDENCE TO:
(include certificate number)
NYS Department of Labor
DOSH - License and Certificate Unit
PO Box 687, New York, NY 10014-0687

CERTIFICATE NUMBER	
AH 99-08114	
EXPIRES	
SOCIAL SECURITY NUMBER	
099-54-7040	
EYES	HAIR
HAZ	BLN
WEIGHT	HEIGHT
165 lbs.	5 ft. 11 in.

153490

DOSH-442 (01/71)

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASS
A - ASBESTOS HANDLER (08/02)

FRANK B SMITH
386 MAPLE STREET
ROCHESTER, NY 14611

RICHARD CUCOLO, Director - For the Commissioner of Labor

DOSH-442 (01/71)

New York State Department of Health Certificate of Asbestos Safety Training

This certificate is the only documentation acceptable for purposes of interstate reciprocity among the Consortium of Northeast States. Certificate No. 335520

I - To be completed by trainee

Name of trainee (print):	Social Security Number:
FRANK SMITH	099-54-7040
Name of trainee (signature):	**Telephone Number:**
Frank Smith	(716) 328-0699

Address: 386 MAPLE ST ROCHESTER N.Y. 14611
(Street or PO Box) (City) (State) (Zip Code)

II - To be completed by training sponsor

Sponsor's Name:	Telephone Number:
Envotech	716 783-1465
Address:	**Zip Code:**
8 Cavan St	14611
Rochester N.Y.	**Course Location:**
	Envotech

Course Title: Worker Refresher

Language of Training: ☒ English ☐ Other: _____ Exam Grade: 88%

Dates of Training: From: 8/8/01 To: 8/8/01 Expires: 8/8/02

I certify that the asbestos safety training course given on the above date complied with both 10NYCRR Part 73 and TSCA Title II, was consistent with the curriculum and instructors approved by the New York State Department of Health, and the student receiving this certificate completed the training course and successfully passed the examination.

Course Director: Darleni Graham (Printed) _____ (Signature) SPONSOR

DH-2832 (7/98)

nyetech
New York Environmental Technologies, Inc.

QUALITATIVE FIT-TEST RECORD

This record represents a factual account of a Qualitative Fit-Test conducted on the below named individual and specifies the type of test that was conducted.

Name Richard K. Sheldon

Signature Richard K. Sheldon Date 6/4/02

Location: New York Environmental Technologies, Inc.

Name of Fit Tester: New York Environmental Technologies, Inc.

Fit-Test conducted by Amy Minster

Signature Amy Minster Date 6/4/02

Type of Mask Full Face Irritant: Smoke/(Banana Oil)

Manufacturer Draeger (Pass)/Fail

Model Panorama Nova Size

Additional Comments

This exam is considered valid for one (1) year from the date indicated.

2014.010.200.9210

06/13/02 13:36 17164366139 NY ENV TECH INC 017

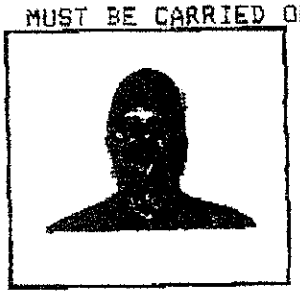
STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASS
5 - SUPERVISOR (01/03)

RICHARD K SHELDON
90 CINNABAR ROAD
ROCHESTER, NY 14617

RICHARD CUCOLO, Director - For the Commissioner of Labor

MUST BE CARRIED ON ASBESTOS PROJECTS



CERTIFICATE NUMBER	
AH 93-06768	
EXPIRES	
SOCIAL SECURITY NUMBER	
069-56-9039	
EYES	HAIR
BLU	BRO
WEIGHT	HEIGHT
170 lbs.	5' 08"

ADDRESS CORRESPONDENCE TO:
(include certificate number)
NYS Department of Labor
DOSH - License and Certificate Unit
PO Box 687, New York, NY 10014-0687

0854530

Environmental
PRODUCTS & SERVICES, INC.
Corporate Office: P.O. Box 315, Syracuse, NY 13209-0315
315-471-0503 800-THE-TANK FAX 315-475-8920

QUALITATIVE FIT-TEST RECORD

This record represents a factual account of a Qualitative Fit-Test conducted on the below named individual and specifies the type of test that was conducted.

Name TODD GIBCEK

Signature _____ Date 9-13-01

Location: Environmental Products & Services, Inc.

Name of Fit-Tester: Environmental Products & Services, Inc.

Fit-Test conducted by DAN FORTE

Signature _____ Date 9-13-01

Type of Mask FULL FACE Irritant Smoke/Banana Oil

Manufacturer MSA Pass/Fail

Model 1525207 Size MEDIUM

Type of Mask _____ Irritant Smoke/Banana Oil

Manufacturer _____ Pass/Fail

Model _____ Size _____

Additional Comments _____

06/13/02 13:37 ☎17164366139 NY ENV TECH INC 019

DOSH-442 (01/91)

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

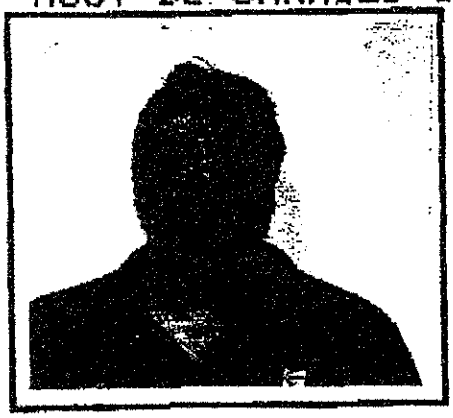
ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASS
G - SUPERVISOR (07/02)

TODD L KIBLER
57 MILL STREET
LEROY, NY 14482

RICHARD CUCOLO, Director - For the Commissioner of Labor

DOSH-442 (01/91)

MUST BE CARRIED ON ASBESTOS PROJECTS



ADDRESS CORRESPONDENCE TO:
(include certificate number)
NYS Department of Labor
DOSH - License and Certificate Unit
PO Box 687, New York, NY 10014-0687

CERTIFICATE NUMBER	
AH 95-09642	
EXPIRES	
SOCIAL SECURITY NUMBER	
066-58-6447	
EYES	HAIR
BRO	BRO
WEIGHT	HEIGHT
160 lbs.	5 ft. 08 in.

150483C

New York State Department of Health Certificate of Asbestos Safety Training

This certificate is the only documentation acceptable for purposes of interstate reciprocity among the Consortium of Northeast States. Certificate No. 333913

I - To be completed by trainee

Name of trainee (print):	Social Security Number:
Todd Kibler	066-58-6447
Name of trainee (signature):	**Telephone Number:**
Todd Kibler	768-8304

Address: 57 Mill ST (Street or PO Box) LeRoy (City) N.Y. (State) 14482 (Zip Code)

II - To be completed by training sponsor

Sponsor's Name:	Telephone Number:
Envotech	716-783-1465
Address:	**Zip Code:**
8 Cairn St.	14611
Rochester, NY	**Course Location:**
	Envotech

Course Title: Contractor/Supervisor Refresher

Language of Training: ☒ English ☐ Other: _____ **Exam Grade:** 72%

Dates of Training: From: 7/12/01 **To:** 7/12/01 **Expires:** 7/12/02

I certify that the asbestos safety training course given on the above date complied with both 10NYCRR Part 73 and TSCA Title II, was consistent with the curriculum and instructors approved by the New York State Department of Health, and the student receiving this certificate completed the training course and successfully passed the examination.

Course Director: Darlene Graham (Printed) Darlene L. Graham (Signature) SPONSOR

02 (7/98)

Re: Todd Kibler

Social Security #: ddd586447

Date Examined: 9.20.01

Employer: NY ENVIRO.

Dear: Deb Murphy:

After conducting a physical evaluation on the above named individual including a:

- ☐ review of their past medical history
- ☐ a pulmonary function test
- ☐ a chest x-ray
- ☐ Other
- ☐ QUESTIONNAIRE only

I have determined that he/she is physically and medically qualified to wear respirator protection in accordance with OSHA 1910.134.

Recommendations

- ☑ Found fit to use the following respirators
  - ☑ Filter Respirator (Dust mask)
  - ☐ Cartridge Respirator - Negative Pressure
  - ☐ Powered Air-Purifying Respirator (PAPR)
  - ☐ Supplied Air Respirator
  - ☐ Self Contained Breathing Apparatus (SCBA)

Comments:

- ☐ I have provided the employee with a written recommendation regarding the employee's ability to use a respirator.
- ☑ I have not provided the employee with a written recommendation regarding the employee's ability to use a respirator.

9/20/01
Date

Signature of Examining Personnel

Updated 5/16/99

RMF0251

ATTACHMENT 5

ASBESTOS-CONTAINING WASTE MATERIALS DISPOSAL DOCUMENTATION

HAZARDOUS MATERIALS CORRECTIVE ACTION
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

FEBRUARY 2003

STRAIGHT BILL OF LADING/NON-HAZARDOUS WASTE MANIFEST

No. 05136

1. Generator Information
Generator Name: UNITED STATES AIR FORCE RESEARCH LAB, ROME RESEARCH SITE (AFRL/IFOCV) Site Address: 150 ELECTRONIC PKWY.
Generator Mailing Address: ROME N.Y. 13441 Generato: Telephone No.: (315) 330-4557

2. Destination/Disposal Facility Information
Company Name: HIGH ACRES LAND FILL, FAIRPORT N.Y. Facility Site Address:
Telephone No.: 585-223-6182

3. Transporter Information
Transporter 1 Company Name: NEW YORK ENVIRONMENTAL TECHNOLOGIES INC. Transporter 2 Company Name:
Telephone No.: (585)-436-6660 (814-720) Telephone No.:
License Plate No.: 88879-3F License Plate No.:

4. Material/Waste Description

	Containers No.	Type	¹HM	Material Description/ Proper Shipping Name if DOT Hazardous Material	¹Hazard Class	¹ID Number	¹Packing Group	Total Weight/ Volume	Unit of Weight/ Volume
a.	6	B		ASBESTOS (FRIABLE) 9, NA2212, III, RQ	9	2212	III	1	TN
b.	30	B		ASBESTOS - (NON-FRIABLE) 9 NA 2212 III RQ	9	2212	III	2	TN
c.				Regional Administrator USEPA region II 26					
d.				Federal Plaza NEW YORK, N.Y. 10278					

5. Job No.
6. Approval Nos. a. b. c. d.
7. Purchase Order No.
8. Additional Information
9. Required Placard(s)

10. Generator Certification: I hereby certify the above-named materials are properly classified, described, packaged, marked, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.
Generator Name: AFRL/RRS/IFOCV (Gregory Andrus By direction) Generator Signature: Shipment Date: 6/2/02

11. **Acknowledgement of Receipt of Material** - To be Completed by Signatories
Transporter 1 Driver Name (Print): Todd KIBLER Signature: Todd Kibler Shipment Date: 6-2-02
Transporter 2 Driver Name (Print): Signature: Shipment Date:

12. Facility Receiving Wastes - Authorized Agent: Paul Schweizer Signature: Receipt Date: 6/2/02
13. Emergency Telephone No.: ( ) Contact Name: ¹Required for transportation of DOT Hazardous Material only.
14. Discrepancy Indication Space to be Completed by the Disposal Facility.

This form may not be used for wastes identified as hazardous under state or RCRA regulations.
White: Retained by TSDF Canary: Mailed by TSDF to EPS Branch Pink: Retained by Generator

02/06/2003 22:59 5854933121 SENTINEL PAGE 02
Feb. 7. 2003 10:20AM NEW YORK ENVIRONMENTAL (NYETECH) No.0979 P. 2/2

ATTACHMENT 6

ASBESTOS AIR SAMPLING ANALYTICAL DATA

HAZARDOUS MATERIALS CORRECTIVE ACTION
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

FEBRUARY 2003

PHASE CONTRAST MICROSCOPY
ANALYTICAL REPORT

LABELLA ASSOCIATES, P.C.
ANALYTICAL LABORATORY
300 STATE STREET
ROCHESTER, NY 14614
(716) 454-6110 FAX (716)

LBL JOB# 49202

492

ELAP # 11184

CLIENT: Joseph C. Lu, Engin. & Land Surv. P.C.

CLIENT PROJECT # 13124-05

ADDRESS: 2230 Penfield Road
Penfield, New York 14526
Attn: Christine Davey

SAMPLE TYPE: Work In Progress

SAMPLE DATE: 06/21/2002

PROJECT LOCATION: RRS, B240 Basement, Work Area #2

FIELD ID	LBL ID	VOL	F/mm	F/cc	I/OWA	SAMPLE LOCATION
B240-18	492-1	1,662.0	23.3	**0.005**	OWA	EAST SIDE OF ENCLOSURE
B240-19	492-2	1,662.0	28.2	**0.007**	OWA	WEST SIDE OF ENCLOSURE
B240-20	492-3	1,638.0	12.2	**0.003**	OWA	AT NEGATIVE AIR EXHAUST
B240-23	492-6		<7			BLANK

NIOSH 7400 METHOD, OLYMPUS CH2 MICROSCOPE

ESS THAN - INDICATES LOWER LIMIT OF CTION

LAB SUPERVISOR: Matt Smith DATE: 7/8/02

SAMPLES NOT COLLECTED BY LBL. RESULTS ARE BASED UPON VALUES SUPPLIED BY THE CLIENT.

PHASE CONTRAST MIRCROSCOPY IS NOT SPECIFIC FOR ASBESTOS FIBE

PHASE CONTRAST MICROSCOPY
ANALYTICAL REPORT

LABELLA ASSOCIATES, P.C.
ANALYTICAL LABORATORY
300 STATE STREET
ROCHESTER, NY 14614
(716) 454-6110 FAX (716)

LBL JOB# 49202

492

ELAP # 11184

CLIENT: Joseph C. Lu, Engin. & Land Surv. P.C.

CLIENT PROJECT # 13124-05

ADDRESS: 2230 Penfield Road
Penfield, New York 14526
Attn: Christine Davey

SAMPLE TYPE: Finals

SAMPLE DATE: 06/21/2002

PROJECT LOCATION: RRS, B240 Basement, Work Area #2

FIELD ID	LBL ID	VOL	F/mm	F/cc	I/OWA	SAMPLE LOCATION
B240-21	492-4	900.0	29.4	**0.013**	IWA	INSIDE WORK AREA
B240-22	492-5	720.0	12.2	**0.007**	OWA	OUTSIDE NEXT TO AIRLOCK
B240-23	492-6		<7			BLANK

NIOSH 7400 METHOD, OLYMPUS CH2 MICROSCOPE

ESS THAN - INDICATES LOWER LIMIT OF
:TION

LAB SUPERVISOR: Matt Smith DATE: 7/8/02

SAMPLES NOT COLLECTED BY LBL. RESULTS ARE BASED UPON VALUES SUPPLIED BY THE CLIENT.

PHASE CONTRAST MIRCROSCOPY IS NOT SPECIFIC FOR ASBESTOS FIBE

LABELLA
Engineering, Architecture and Surveying

AIR MONITORING FIELD DATA

LaBella Associates, P.C.
Analytical Laboratory
State Street
..chester, New York 14614
(716) 454-6110 FAX 454-3066

LBL Job # 4920?

Client LU ENGINEERS Project # 13124-05

Site Address BRRS
B240 BASEMENT

Site Description WORK AREA #3

Pre-Abatement [ ]
Work in Progress [X]
Finals [X]

Abatement Contractor NIVETECH

PCM [ ] TEM [ ] Specified Clearance Level .01

Observations/Comments SAMPLES 1B5-2D - WORK IN PROGRESS
SAMPLES 21-22 FINALS

Lab ID	Field ID	Pump ID	Flow Rate (lpm) Start	Stop	Ave	Time Start	Stop	Total Min	Vol Liter	IWA	OWA	Sample Location
4920-1	B240-18		6	6	6	10:27	3:04	277	1662		X	EAST SIDE OF ENCLOSURE
2	B240-19		6	6	6	10:27	3:04	277	1662		X	WEST SIDE OF ENCLOSURE
3	B240-20		6	6	6	10:34	3:07	273	1638		X	AT NEGATIVE AIR EXHAUST
P												
4	B240-21		15	15	15	4:44	5:44	60	900	N		INSIDE WORK AREA
5	B240-22		12	12	12	4:44	5:44	60	720		X	OUTSIDE NEXT TO AIRLOCK
FINALS												
6	B240-23											BLANK

Air Technician SUE HILTON Signature Susan Hilton Date 6/21/02

Chain of Custody

Sent to the following lab for analysis: To:

Relinquished by: Susan Hilton Date/Time: 6/21/02 6PM

Carrier: Number of Samples: 6

Received By: Matt Emmett Date/Time: 6/23/02

Fax Results To: 377-1266 Tech. Contact/Pager #: Voice Mail
Message to Greg Anders
377-1450 ext. 215

PHASE CONTRAST MICROSCOPY
ANALYTICAL REPORT

LABELLA ASSOCIATES, P.C.
ANALYTICAL LABORATORY
300 STATE STREET
ROCHESTER, NY 14614
(716) 454-6110 FAX (716)

LBL JOB# 49102

491

ELAP # 11184

CLIENT: Joseph C. Lu, Engin. & Land Surv. P.C.

ADDRESS: 2230 Penfield Road
Penfield, New York 14526
Attn: Christine Davey

CLIENT PROJECT # 13124-05

SAMPLE TYPE: Work In Progress

SAMPLE DATE: 06/20/2002

PROJECT LOCATION: RRS, B240 Basement, Work Area #2

FIELD ID	LBL ID	VOL	F/mm	F/cc	I/OWA	SAMPLE LOCATION
B240-10	491-1	1,327.5	18.4	**0.005**	OWA	CONTAINMENT EXIT, EAST (6/19/02)
B240-11	491-2	1,470.0	23.3	**0.006**	OWA	CONTAINMENT EXIT, WEST (6/19/02)
B240-12	491-3	1,470.0	13.5	**0.004**	OWA	NEGATIVE AIR EXHAUST (6/19/02)
B240-13	491-4	2,120.0	33.0	**0.006**	OWA	CONTAINMENT EXIT, EAST (6/20/02)
B240-14	491-5	2,023.0	36.7	**0.007**	OWA	CONTAINMENT EXIT, WEST (6/20/02)
B240-17	491-6		<7			BLANK

NIOSH 7400 METHOD, OLYMPUS CH2 MICROSCOPE

.ESS THAN - INDICATES LOWER LIMIT OF ECTION

LAB SUPERVISOR: Matt Smith DATE: 6/23/02

SAMPLES NOT COLLECTED BY LBL. RESULTS ARE BASED UPON VALUES SUPPLIED BY THE CLIENT.

PHASE CONTRAST MIRCROSCOPY IS NOT SPECIFIC FOR ASBESTOS FIBE

LABELLA
Engineering, Architecture and Surveying

AIR MONITORING FIELD DATA

LaBella Associates, P.C.
Analytical Laboratory
0 State Street
..ochester, New York 14614
(716) 454-6110 FAX 454-3066

LBL Job # 4910?

Client LU ENGINEERS Project # 13124.05

Site Address RRS
B240 BASEMENT

Site Description WORK AREA #2

Abatement Contractor NUTECH

Pre-Abatement ☐
Work in Progress ☒
Finals ☐
PCM ☐ TEM ☐

Specified Clearance Level

Observations/Comments

Lab ID	Field ID	Pump ID	Flow Rate (lpm) Start	Stop	Ave	Time Start	Stop	Total Min	Vol Liter	IWA	OWA	Sample Location
491-1	B240-16		4.5	4.5	4.5	09:05	14:00	295	1327.5		X	Containment exit, East
2	B240-11		5.0	5.0	5.0	09:06	14:00	294	1470		X	Containment exit, West
3	B240-12		5.0	5.0	5.0	09:07	14:01	294	1470		X	~~Cont.~~ Neg. Air Exhaust
4	B240-13		10.0	10.	10	8:00	11:32	212	2120		X	CONTAINMENT EXIT, EAST
5	B240-14		10.0	9.5	9.75	8:01	11:34	213	2023		X	CONTAINMENT EXIT, WEST
	~~B240-15~~		~~10.0~~			8:02						
6	B240-17											BLANK

Air Technician SUE HILTON / GREG AMORE Signature [signature] Date 6/20/02

Chain of Custody

Sent to the following lab for analysis: To:

Relinquished by: [signature] Date/Time: 6/21/02 (illegible)

Carrier: [signature] Number of Samples: 6

Received By: [signature] Date/Time: 6/23/02

Fax Results To: 377-1266 Tech. Contact/Pager #: 377-1450 ext 215

PHASE CONTRAST MICROSCOPY
ANALYTICAL REPORT

LABELLA ASSOCIATES, P.C.
ANALYTICAL LABORATORY
300 STATE STREET
ROCHESTER, NY 14614
(716) 454-6110 FAX (716)

LBL JOB# 49002

490

ELAP # 11184

CLIENT: Joseph C. Lu, Engin. & Land Surv. P.C

CLIENT PROJECT # 13124-05

ADDRESS: 2230 Penfield Road
Penfield, New York 14526
Attn: Christine Davey

SAMPLE TYPE: Finals

SAMPLE DATE: 06/20/2002

PROJECT LOCATION: RRS, B240 Basement, Work Area #2

FIELD ID	LBL ID	VOL	F/mm	F/cc	I/OWA	SAMPLE LOCATION
B240-15	490-1	1,200.0	7.3	**0.002**	IWA	INSIDE TENT ENCLOSURE
B240-16	490-2	1,200.0	12.2	**0.004**	OWA	OUTSIDE TENT NEXT TO WALL

NIOSH 7400 METHOD, OLYMPUS CH2 MICROSCOPE

ESS THAN - INDICATES LOWER LIMIT OF
.CTION

LAB SUPERVISOR: Matt Smith DATE: 6/23/02

SAMPLES NOT COLLECTED BY LBL. RESULTS ARE BASED UPON VALUES SUPPLIED BY THE CLIENT.

PHASE CONTRAST MIRCROSCOPY IS NOT SPECIFIC FOR ASBESTOS FIBE

LABELLA
Engineering, Architecture and Surveying

AIR MONITORING FIELD DATA

LaBella Associates, P.C.
Analytical Laboratory
) State Street
.ochester, New York 14614
(716) 454-6110 FAX 454-3066

LBL Job # 49007

Client LU ENGINEERS

Project # 13124-05

Site Address RRS
B240 BASEMENT

Site Description WORK AREA #2

Abatement Contractor NYETECH

Specified Clearance Level 0.01

Pre-Abatement ☐

Work in Progress ☐

Finals ☒

PCM ☐ TEM ☐

Observations/Comments

Lab ID	Field ID	Pump ID	Flow Rate (lpm) Start	Stop	Ave	Time Start	Stop	Total Min	Vol Liter	IWA	OWA	Sample Location
490-1	B240-15		10	10	10	1:35	3:35	120	1200	X		INSIDE TENT ENCLOSURE
2	B240-16		10	10	10	1:36	3:36	120	1200		X	OUTSIDE TENT NEXT TO WALL

Air Technician SUE HILTON Signature Susan Hilton Date 6/20/02

Chain of Custody

Sent to the following lab for analysis: To:

Relinquished by: Susan Hilton Date/Time: 6/21/02 6:00pm

Carrier: [signature] Number of Samples: 2

eived By: Matt Smith Date/Time: 6/23/02

Fax Results To: 377-~~[illegible]~~ 1266 Tech. Contact/Pager #: 377-1450 ext. ~~216~~ 215 (leave message)

PHASE CONTRAST MICROSCOPY
ANALYTICAL REPORT

LABELLA ASSOCIATES, P.C.
ANALYTICAL LABORATORY
300 STATE STREET
ROCHESTER, NY 14614
(716) 454-6110 FAX (716)

LBL JOB# 46102

461

ELAP # 11184

CLIENT: Joseph C. Lu, Engin. & Land Surv. P.C.

CLIENT PROJECT # 13124-05

ADDRESS: 2230 Penfield Road
Penfield, New York 14526
Attn: Christine Davey

SAMPLE TYPE: Work In Progress

SAMPLE DATE: 06/18/2002

PROJECT LOCATION: RRS, B240 Basement, Work Area #2

FIELD ID	LBL ID	VOL	F/mm	F/cc	I/OWA	SAMPLE LOCATION
B240-6	461-1	861.0	12.2	**0.005**	OWA	EAST OF ENCLOSURE
B240-7	461-2	800.0	14.7	**0.007**	OWA	WEST OF ENCLOSURE
B240-8	461-3	609.0	7.3	**0.005**	OWA	AT NEGATIVE AIR EXHAUST
B240-9	461-4		<7			BLANK

NIOSH 7400 METHOD, OLYMPUS CH2 MICROSCOPE

.ESS THAN - INDICATES LOWER LIMIT OF :CTION

LAB SUPERVISOR: Matt Smith DATE: 6/20/02

SAMPLES NOT COLLECTED BY LBL. RESULTS ARE BASED UPON VALUES SUPPLIED BY THE CLIENT.

PHASE CONTRAST MIRCROSCOPY IS NOT SPECIFIC FOR ASBESTOS FIBE

LABELLA
Engineering, Architecture and Surveying

AIR MONITORING FIELD DATA

LaBella Associates, P.C.
Analytical Laboratory
0 State Street
Rochester, New York 14614
(716) 454-6110 FAX 454-3066

LBL Job # [illegible]

Client LU ENGINEERS

Project # 13124-05

Site Address SRC
B240 BASEMENT

Site Description WORK AREA #2

Abatement Contractor NYETECH

Specified Clearance Level

Pre-Abatement ☐

Work in Progress ☒

Finals ☐

PCM ☐ TEM ☐

Observations/Comments

Lab ID	Field ID	Pump ID	Flow Rate (lpm) Start	Stop	Ave	Time Start	Stop	Total Min	Vol Liter	IWA	OWA	Sample Location
	B240-6		47	7	7	2:02	4:05	123	861		X	EAST OF ENCLOSURE
	B240-7		47	6	6.5	2:03	4:06	123	800		X	WEST OF ENCLOSURE
	B240-8		47	7	7	2:23	3:50	87	609		X	AT NEG. AIR EXHAUST
	B240-9											BLANK

Air Technician SUE HILTON Signature Susan Hilton Date 6/18/02

Chain of Custody

Sent to the following lab for analysis: To:

Relinquished by: Susan Hilton Date/Time: 6/19/02 10:00 am

Carrier: HAND DELIVERED Number of Samples: 4

Received By: Nancy Trokell Date/Time: 303-2032

Fax Results To: 377-1266 Tech. Contact/Pager #:

PHASE CONTRAST MICROSCOPY
ANALYTICAL REPORT

LABELLA ASSOCIATES, P.C.
ANALYTICAL LABORATORY
300 STATE STREET
ROCHESTER, NY 14614
(716) 454-6110 FAX (716)

LBL JOB# 45002

450 ELAP # 11184

CLIENT: Joseph C. Lu, Engin. & Land Surv. P.C.

ADDRESS: 2230 Penfield Road
Penfield, New York 14526
Attn: Christine Davey

CLIENT PROJECT # 13124-05

SAMPLE TYPE: Work In Progress

SAMPLE DATE: 06/17/2002

PROJECT LOCATION: Regeneration Unit - RRS, B240

FIELD ID	LBL ID	VOL	F/mm	F/cc	I/OWA	SAMPLE LOCATION
B240-1	450-1	1,287.0	9.8	**0.003**	OWA	NORTHEAST OF TENT ENCLOSURE
B240-2	450-2	1,305.0	15.9	**0.005**	OWA	SOUTHEAST OF TENT ENCLOSURE

NIOSH 7400 METHOD, OLYMPUS CH2 MICROSCOPE

\ LESS THAN - INDICATES LOWER LIMIT OF ECTION

LAB SUPERVISOR: Matt Smith DATE: 6/18/02

SAMPLES NOT COLLECTED BY LBL. RESULTS ARE BASED UPON VALUES SUPPLIED BY THE CLIENT.

PHASE CONTRAST MIRCROSCOPY IS NOT SPECIFIC FOR ASBESTOS FIBERS

LABELLA
Engineering, Architecture and Surveying

AIR MONITORING FIELD DATA

LaBella Associates, P.C.
Analytical Laboratory
) State Street
..ochester, New York 14614
(716) 454-6110 FAX 454-3066

LBL Job # 45002

Client LU ENGINEERS Project # 13124-05

Site Address RRS B240

Site Description REGENERATION UNIT

Pre-Abatement ☐
Work in Progress ☒
Finals ☐

Abatement Contractor NYETECH

PCM ☐ TEM ☐

Specified Clearance Level 0.01

Observations/Comments

Lab ID	Field ID	Pump ID	Flow Rate (lpm) Start	Stop	Ave	Time Start	Stop	Total Min	Vol Liter	IWA	OWA	Sample Location
450-1												
12	B240-1		9	9	9	11:06	1:29	143	1287		X	NE OF TENT ENCLOSURE
28	B240-2		9	9	9	11:06	1:31	145	1305		X	SE OF TENT ENCLOSURE

Air Technician SUE HILTON Signature Sue Hilton Date 6/17/02

Chain of Custody

Sent to the following lab for analysis: To:

Relinquished by: Susan Hilton Date/Time: 6/17/02 3:00 pm

Carrier: (Greg Andrus) Number of Samples: 2

Received By: Matt Smith Date/Time: 6/18/02

Fax Results To: 377-[illegible]1266 Tech. Contact/Pager #: 303-2032

315-330-3410

PHASE CONTRAST MICROSCOPY
ANALYTICAL REPORT

LABELLA ASSOCIATES, P.C.
ANALYTICAL LABORATORY
300 STATE STREET
ROCHESTER, NY 14614
(716) 454-6110 FAX (716)

LBL JOB# 45102

451

ELAP # 11184

CLIENT: Joseph C. Lu, Engin. & Land Surv. P.C.

ADDRESS: 2230 Penfield Road
Penfield, New York 14526
Attn: Christine Davey

CLIENT PROJECT # 13124-05

SAMPLE TYPE: Finals

SAMPLE DATE: 06/17/2002

PROJECT LOCATION: Regeneration Unit - RRS, B240

FIELD ID	LBL ID	VOL	F/mm	F/cc	I/OWA	SAMPLE LOCATION
B240-3	451-1	1,010.0	8.6	**0.003**	OWA	NORTHEAST TENT ENCLOSURE
B240-4	451-2	1,173.0	11.0	**0.004**	IWA	CENTER WA#1
B240-5	451-3		<7			BLANK

NIOSH 7400 METHOD, OLYMPUS CH2 MICROSCOPE

' LESS THAN - INDICATES LOWER LIMIT OF ECTION

LAB SUPERVISOR: Matt Smith DATE: 6/18/02

SAMPLES NOT COLLECTED BY LBL. RESULTS ARE BASED UPON VALUES SUPPLIED BY THE CLIENT.

PHASE CONTRAST MIRCROSCOPY IS NOT SPECIFIC FOR ASBESTOS FIBERS

LABELLA
Engineering, Architecture and Surveying

AIR MONITORING FIELD DATA

LaBella Associates, P.C.
Analytical Laboratory
State Street
...ochester, New York 14614
(716) 454-6110 FAX 454-3066

LBL Job # 45102

Client LU ENGINEERS Project # 13124-05

Site Address RRS
B240

Site Description REGENERATION UNIT

Abatement Contractor NYETECH

Specified Clearance Level 0.01

Pre-Abatement ☐
Work in Progress ☐
Finals ☒
PCM ☐ TEM ☐

Observations/Comments

Lab ID	Field ID	Pump ID	Flow Rate (lpm) Start	Stop	Ave	Time Start	Stop	Total Min	Vol Liter	IWA	OWA	Sample Location
451-1	B240-3		10	10	10	2:38	4:12	101	1010		X	NE TENT ENCLOSURE
2	B240-4		10	13	11.5	2:38	4:15	102	1173	X		CENTER IVA #1
3	B240-5		—	—	—	—	—	—	—			BLANK

Air Technician SUE HILTON Signature Susan Hilton Date 6/17/02

Chain of Custody

Sent to the following lab for analysis: To:

Relinquished by: Susan Hilton Date/Time: 6/17/02 4:35 PM

Carrier: Number of Samples: 3

...eived By: Matt Smith Date/Time: 6/18/02

Fax Results To: 377-1260 Tech. Contact/Pager #: 303-2032

ATTACHMENT 7

HAZARDOUS WASTE DISPOSAL DOCUMENTATION

HAZARDOUS MATERIALS CORRECTIVE ACTION
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

FEBRUARY 2003

WASTE MANAGEMENT, INC.
CWM Chemical Services, L.L.C.
1550 Balmer Rd.
P.O. Box 200
Model City, N.Y. 14107
716/754-8231

September 24, 2002

Mr. Richard Hammond, P.E., Chief, Data Management Section
New York State Department of Environmental Conservation
Division of Solid & Hazardous Materials
625 Broadway – 9th Floor
Albany, NY 12233-7250

RE: Discrepancy Notification

Dear Mr. Hammond:

Pursuant to 6NYCRR 373-2.5(b)(1)(v), CWM Chemical Services, L.L.C. is submitting notification of a manifest(s) discrepancy. A copy of the referenced manifest(s) is attached.

Generator & Address: Air Force Research Laboratory, 150 Electronics Pkwy., Rome, NY 13441

Manifest Number(s): NYG3546684

Discrepancy: Line 11a : move one drum to line 11b as follows;
Items 12a/13a = 9 DM 3600 P;
Add 11b - Non-Regulated Material; 12/13b = 1 DM 400 P Kb = L

Should you require additional information, please contact me at (716) 754-0269.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Sincerely,
CWM CHEMICAL SERVICES, L.L.C.

Kevin M. Sheehan
Records Coordinator

cc: file DOR 9/16/02 81564966-01-14
Generator
Generator State
Transporter
EMD file / Billing

Please type or print. Do not staple

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

(Hazardous Waste Manifest (6/09))

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Information within heavy bold lines is not required by Federal Law.
NY6570043426	46684	1	

3. Generator's Name and Mailing Address: Air Force Research Laboratory
150 Electronics Pkwy
Rome NY 13441

4. Generator's Telephone Number: (315) 330-2098

A. NYG3546684

B. Generator's ID: 32 Brooks Rd. Bldg 240, Rome, NY 13441

5. Transporter 1 (Company Name)	6. US EPA ID Number	C. State Transporter's ID	D. Transporter's Telephone
Hazmat Environmental Group	NYD980769473	AH0357 (NJ)	(716) 827-7200
7. Transporter 2 (Company Name)	8. US EPA ID Number	E. State Transporter's ID	F. Transporter's Telephone
			( )

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	H. Facility Telephone
CWM Chemical Services, LLC 1550 Balmer Road Model City NY 14107	NYD041981661 79		(716) 754-3231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous waste, liquid, n.o.s. (D007) 9, NA3082, III	010	DM	EST 04000	P	EPA D007 STATE
b. Non-Regulated Material	001	DM	00400	P	EPA NONE STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials Listed Above
a. -01
b. SR7042 - 14

K. Handling Codes for Wastes Listed Above
a. T
b. L

15. Special Handling Instructions and Additional Information
WTS#5701 SR#
Emer. Contact: 315-330-7961 8156-4966
a. CV2574, ERG# 171

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

Printed/Typed Name	Signature	Mo.	Day	Year
Alecia M. Stone	Alecia M. Stone	09	13	02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year
Timothy Hafley		09	13	02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year

19. Discrepancy Indication Space
Change Hazard. to 9, change Item 13a. to 3600 and add Limit. as shown above

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Mo.	Day	Year
A.D. Argona	A.D. Argona	09	16	02

COPY 1—Disposer State—Mailed by TSD Facility

GENERATOR: 6802 and the NYS Department of Environmental Conservation (518) 457-

TRANSPORTER: case of emergency or spill immediately call the National Response Center (8

FACILITY

NYG 3546684

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple

(Hazardous Waste Manifest 1/5/99)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Information within heavy bold line is not required by Federal Law.
NY6570043426	46684	1	

3. Generator's Name and Mailing Address: Air Force Research Laboratory
150 Electronics Pkwy
Rome NY 13441

4. Generator's Telephone Number: (315) 330-2098

A. NYG 3546684

B. Generator's ID: 32 Brooks Rd. Bldg 240, Rome, NY 13441

C. State Transporter's ID: AH1035T

D. Transporter's Telephone: (716) 827-7200

E. State Transporter's ID:

F. Transporter's Telephone: ( )

G. State Facility ID:

H. Facility Telephone: (716) 754-8231

5. Transporter 1 (Company Name): Hazmat Environmental Group

6. US EPA ID Number: NYD980769947

7. Transporter 2 (Company Name):

8. US EPA ID Number:

9. Designated Facility Name and Site Address:
CWM Chemical Services, LLC
1550 Balmer Road
Model City NY 14107

10. US EPA ID Number: NYD049836679

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous waste, liquid, n.o.s. (D007) 9, NA3082, III	010	DM	04000 EST	P	EPA D007 / STATE
b.					EPA / STATE
c					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above

a. | c.

b. | d.

K. Handling Codes for Wastes Listed Above

a. T | c.

b. | d.

15. Special Handling Instructions and Additional Information

WTS#5701 SR#
Emer. Contact: 315-330-2961
a. CV2574, ERG# 171

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

Printed/Typed Name	Signature	Mo.	Day	Year
Aleana M. Stone	Aleana M. Stone	09	13	02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year
Timothy Hanley		09	13	02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Mo.	Day	Year

GENERATOR

TRANSPORTER

FACILITY

12 and the NYS Department of Environmental Conservation (518) 457-

nergency or spill immediately call the National Response Center (800)

In ca

COPY 1—Disposer State—Mailed by TSD Facility

COPY 3—Disposer State—Mailed by Generator

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

PART 364
WASTE TRANSPORTER PERMIT NO. 9A-278

Pursuant to Article 27,Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

HAZMAT ENVIRONMENTAL GROUP, INC.
60 COMMERCE DRIVE
BUFFALO, NY 14218

PERMIT TYPE:

☐ NEW
☐ RENEWAL
■ MODIFICATION

CONTACT NAME: NANCY J. COPELIN
COUNTY: ERIE
TELEPHONE NO: (716)827-7200

EFFECTIVE DATE: 08/26/2002
EXPIRATION DATE: **05/31/2003**
US EPA ID NUMBER: NYD980769947

AUTHORIZED WASTE TYPES:
The Permittee is Authorized to Transport the Following Waste Type(s):

Non-Hazardous Industrial/Commercial	Hazardous Industrial/Commercial
Asbestos	Waste Oil
Petroleum Contaminated Soil	Medical
Sludge from Sewage or Water Supply Treatment Plant	

AUTHORIZED VEHICLES:
The Permittee is Authorized to Operate the Following Vehicles to Transport Waste:
(Vehicles enclosed in <>'s are authorized to haul septage only)

256 PERMITTED VEHICLE(S)

NY 1150B7	NY 1160B7	NY 1170B7	NY 1180B7	NY 1190B7
NY 1151B7	NY 1161B7	NY 1171B7	NY 1181B7	NY 1191B7
NY 1152B7	NY 1162B7	NY 1172B7	NY 1182B7	NY 1192B7
NY 1153B7	NY 1163B7	NY 1173B7	NY 1183B7	NY 1193B7
NY 1154B7	NY 1164B7	NY 1174B7	NY 1184B7	NY 1194B7
NY 1155B7	NY 1165B7	NY 1175B7	NY 1185B7	NY 1195B7
NY 1156B7	NY 1166B7	NY 1176B7	NY 1186B7	NY 1196B7
NY 1157B7	NY 1167B7	NY 1177B7	NY 1187B7	NY 1197B7
NY 1158B7	NY 1168B7	NY 1178B7	NY 1188B7	NY 1198B7
NY 1159B7	NY 1169B7	NY 1179B7	NY 1189B7	NY 1199B7

*** AUTHORIZED VEHICLES LISTING (continued on next page) ***

NOTE: By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the Environmental Conservation Law, all applicable regulations, and the General Conditions printed on the back of this page.

PERMIT ADMINISTRATOR: Peter M. Pettit

ADDRESS: New York State Department of Environmental Conservation
Division of Solid & Hazardous Materials - Waste Transporter Program
625 Broadway, 9th Floor
Albany, NY 12233-7253

AUTHORIZED SIGNATURE: _____ Date: 8/26/02

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

PART 364
WASTE TRANSPORTER PERMIT NO. 9A-278

Pursuant to Article 27,Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

HAZMAT ENVIRONMENTAL GROUP, INC.
60 COMMERCE DRIVE
BUFFALO, NY 14218

PERMIT TYPE:

☐ NEW
☐ RENEWAL
■ MODIFICATION

CONTACT NAME: NANCY J. COPELIN
COUNTY: ERIE
TELEPHONE NO: (716)827-7200

EFFECTIVE DATE: 08/26/2002
EXPIRATION DATE: **05/31/2003**
US EPA ID NUMBER: NYD980769947

AUTHORIZED VEHICLES (continued from previous page):
The Permittee is Authorized to Operate the Following Vehicles to Transport Waste:
(Vehicles enclosed in <>'s are authorized to haul septage only)

256 Permitted Vehicle(s)

NY 1200B7	NY 1232B7	NY 1264B7	NY 1299B7	NY 2324B7
NY 1201B7	NY 1233B7	NY 1265B7	NY 1300B7	NY 2325B7
NY 1202B7	NY 1234B7	NY 1266B7	NY 1301B7	NY 2326B7
NY 1203B7	NY 1235B7	NY 1267B7	NY 1302B7	NY 2327B7
NY 1204B7	NY 1236B7	NY 1268B7	NY 1303B7	NY 2328B7
NY 1205B7	NY 1237B7	NY 1269B7	NY 1304B7	NY 2329B7
NY 1206B7	NY 1238B7	NY 1270B7	NY 1305B7	NY 2330B7
NY 1207B7	NY 1239B7	NY 1271B7	NY 1306B7	NY 2331B7
NY 1208B7	NY 1240B7	NY 1273B7	NY 1308B7	NY 2332B7
NY 1209B7	NY 1241B7	NY 1274B7	NY 1309B7	NY 2333B7
NY 1210B7	NY 1242B7	NY 1276B7	NY 1311B7	NY 2334B7
NY 1211B7	NY 1243B7	NY 1277B7	NY 1312B7	NY 2350B7
NY 1212B7	NY 1244B7	NY 1278B7	NY 1313B7	NY 2351B7
NY 1213B7	NY 1245B7	NY 1279B7	NY 1314B7	NY 2352B7
NY 1214B7	NY 1246B7	NY 1281B7	NY 1315B7	NY 2353B7
NY 1215B7	NY 1247B7	NY 1282B7	NY 1316B7	NY 2354B7
NY 1216B7	NY 1248B7	NY 1283B7	NY 1317B7	NY 2355B7
NY 1217B7	NY 1249B7	NY 1284B7	NY 1318B7	NY 2356B7
NY 1218B7	NY 1250B7	NY 1285B7	NY 1319B7	NY 2357B7
NY 1219B7	NY 1251B7	NY 1286B7	NY 1320B7	NY 2358B7
NY 1220B7	NY 1252B7	NY 1287B7	NY 1321B7	NY 2359B7
NY 1221B7	NY 1253B7	NY 1288B7	NY 1322B7	NY 2360B7
NY 1222B7	NY 1254B7	NY 1289B7	NY 17063PA	NY 2361B7
NY 1223B7	NY 1255B7	NY 1290B7	NY 17064PA	NY 2362B7
NY 1224B7	NY 1256B7	NY 1291B7	NY 17065PA	NY 2363B7
NY 1225B7	NY 1257B7	NY 1292B7	NY 2316B7	NY 2364B7
NY 1226B7	NY 1258B7	NY 1293B7	NY 2317B7	NY 2365B7
NY 1227B7	NY 1259B7	NY 1294B7	NY 2319B7	NY 2366B7
NY 1228B7	NY 1260B7	NY 1295B7	NY 2320B7	NY 2367B7
NY 1229B7	NY 1261B7	NY 1296B7	NY 2321B7	NY 2368B7
NY 1230B7	NY 1262B7	NY 1297B7	NY 2322B7	NY 2369B7
NY 1231B7	NY 1263B7	NY 1298B7	NY 2323B7	NY 2370B7

*** AUTHORIZED VEHICLES LISTING (continued on next page) ***

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

PART 364
WASTE TRANSPORTER PERMIT NO. 9A-278

Pursuant to Article 27,Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

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HAZMAT ENVIRONMENTAL GROUP, INC.
60 COMMERCE DRIVE
BUFFALO, NY 14218

PERMIT TYPE:

☐ NEW
☐ RENEWAL
■ MODIFICATION

CONTACT NAME: NANCY J. COPELIN
COUNTY: ERIE
TELEPHONE NO: (716)827-7200

EFFECTIVE DATE: 08/26/2002
EXPIRATION DATE: **05/31/2003**
US EPA ID NUMBER: NYD980769947

AUTHORIZED VEHICLES (continued from previous page):
The Permittee is Authorized to Operate the Following Vehicles to Transport Waste:
(Vehicles enclosed in <>'s are authorized to haul septage only)

256 Permitted Vehicle(s)

NY 2371B7
NY 2372B7
NY 2373B7
NY 2374B7
NY 2375B7
NY 2376B7
NY 2377B7
NY 2378B7
NY 2379B7
NY 2380B7
NY 2381B7
NY 2382B7
NY 2383B7
NY 2384B7
NY AC26852
NY AC26857
NY AC26861
NY AC26862
NY AC26863
NY AC26864
NY AC26865
NY AC26866
NY AC26867
NY AC26868
NY AC26869
NY AC26870
NY AC26871
NY AC26872
NY AC26874
NY AC26875
NY AC26876
NY AC26877
NY AC26879
NY AC26880
NY AC26881
NY AC26882
NY AC26883
NY AC26884
NY AC26885
NY AC26886
NY AC26887
NY AC26890
NY AC27624
NY AC27625
NY AE51899
NY AH70357
End of List

Land Disposal Restriction Form

CWM Chemical Services, LLC **EPA ID #:NYD049836679**

1550 Balmer Road, PO Box 200
Model City, NY 14107

Generator Information:
EPA ID #: NY6570043426
Air Force Research Laboratory
150 Electronics Pkwy
Rome, NY 13441

Site Information:
Air Force Research Laboratory
32 Brooks Road,Bldg.240
Rome, NY 13441

Billing Contact: Phone: (315) 330-2098
Technical Contact: Phone: (315) 330-2098

Name of Waste: Heat Exchanger Wastewater Waste Codes: D007

State Manifest Number: NYG3546684 line item a

Federal Manifest Number: 46684

Profile Number: CV2574 **LDR Nonwastewater Treatability Group**

A. F001-F005 Solvent Restrictions

There are no F001-F005 solvent restricted wastes present that are banned from land disposal under 40 CFR 268.30.

EPA Code(s)	Waste Description and Treatment/Regulatory Subcategory	Hazardous Constituent	Total Concentration in mg/l (WW), mg/kg (NWW); or Technology Code

Other Regulated Waste Notification

This section includes all wastes restricted from land disposal not included in other sections. If any treatment standards reference 268.48, then all underlying hazardous constituents are listed in Section D

EPA Code(s)	Waste Description and Treatment/Regulatory Subcategory	Hazardous Constituent	Total Concentration in mg/l (WW), mg/kg (NWW); or Technology Code
D007	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for chromium based on the extraction procedure (EP) in SW846 Method 1310.	Chromium (Total)	5.0 mg/l TCLP

C. D001-D003

There are no D001-D003 restricted wastes present that are banned from land disposal.

EPA Code(s)	Waste Description and Treatment/Regulatory Subcategory	Hazardous Constituent	Total Concentration in mg/l (WW), mg/kg (NWW); or Technology Code

D: Underlying Hazardous Constituents

There are no underlying hazardous constituents present as defined in 268.2(i).

Hazardous Constituent	Total Concentration in mg/l (WW), mg/kg (NWW); or Technology Code

Land Disposal Restriction Form

CWM Chemical Services, LLC **EPA ID #:NYD049836679**

1550 Balmer Road, PO Box 200
Model City, NY 14107

F. Non-Hazardous/Non-Restricted Waste
There are no EPA waste codes that are not subject to land disposal restrictions as specified in 40 CFR Subpart D or applicable prohibitions in 40 CFR 268.32 or RCRA.

Certifications

This waste must be treated to the applicable treatment standards set for in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d)

Signature Diana M. Stone Date 9/13/02

ATTACHMENT 8

PCB CONFIRMATORY SAMPLING RESULTS

HAZARDOUS MATERIALS CORRECTIVE ACTION
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

FEBRUARY 2003

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Oils

Client: Lu Engineers

Client Job Site:	RRS B240	**Lab Project Number:**	02-1591
		Lab Sample Number:	5858
Client Job Number:	N/A		
Field Location:	B240-Comp-01	**Date Sampled:**	06/24/2002
Field ID Number:	N/A	**Date Received:**	06/26/2002
Sample Type:	Oil	**Date Analyzed:**	07/01/2002

PCB Identification	Results in mg / Kg
Aroclor 1016	ND< 9.62
Aroclor 1221	ND< 9.62
Aroclor 1232	ND< 9.62
Aroclor 1242	ND< 9.62
Aroclor 1248	ND< 9.62
Aroclor 1254	ND< 9.62
Aroclor 1260	ND< 9.62

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram
Detection Limit elevated due to matrix interference

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021591P1.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997
FAX: (716) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	
COMPANY:	COMPANY:	LAB PROJECT #: / CLIENT PROJECT #:
ADDRESS:	ADDRESS:	
CITY: STATE: ZIP:	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)
PHONE: FAX:	PHONE: FAX:	STD / OTHER
PROJECT NAME/SITE NAME:	ATTN:	ATTN: ☐ 1 ☐ 2 ☐ 3 ☐ 5 ☐
	COMMENTS:	

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS										REMARKS	PARADIGM LAB SAMPLE NUMBER				
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐

Sampled By:	Date/Time:	Relinquished By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received By:	Date/Time:	Received @ Lab By:	Date/Time:

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Wipes

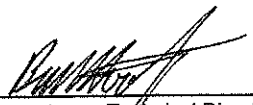
Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6024
Client Job Number:	N/A		
Field Location:	B240-Sump2-N	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Wipe	**Date Analyzed:**	07/01/2002

PCB Identification	Results in ug / Wipe
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
ug / Wipe = microgram per Wipe

Signature: 
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021622P3.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Wipes

Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6025
Client Job Number:	N/A		
Field Location:	B240-Sump2-S	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Wipe	**Date Analyzed:**	07/01/2002

PCB Identification	Results in ug / Wipe
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
ug / Wipe = microgram per Wipe

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021622P4.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Wipes

Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6026
Client Job Number:	N/A		
Field Location:	B240-Sump2-E	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Wipe	**Date Analyzed:**	07/01/2002

PCB Identification	Results in ug / Wipe
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
ug / Wipe = microgram per Wipe

Signature: _____
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021622P5.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Wipes

Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6027
Client Job Number:	N/A		
Field Location:	B240-Sump2-W	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Wipe	**Date Analyzed:**	07/01/2002

PCB Identification	Results in ug / Wipe
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
ug / Wipe = microgram per Wipe

Signature: _____
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021622P6.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Wipes

Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6028
Client Job Number:	N/A		
Field Location:	B240-CompF-01	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Wipe	**Date Analyzed:**	07/01/2002

PCB Identification	Results in ug / Wipe
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	1.83

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
ug / Wipe = microgram per Wipe

Signature: _____
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021622Q6.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Wipes

Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6029
Client Job Number:	N/A		
Field Location:	B240-CompP-01	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Wipe	**Date Analyzed:**	07/01/2002

PCB Identification	Results in ug / Wipe
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
ug / Wipe = microgram per Wipe

Signature: _____
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021622P7.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Wipes

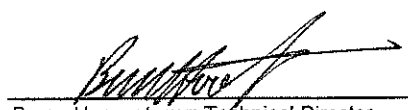
Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6030
Client Job Number:	N/A		
Field Location:	B240-OS-C	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Wipe	**Date Analyzed:**	07/01/2002

PCB Identification	Results in ug / Wipe
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
ug / Wipe = microgram per Wipe

Signature: 
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021622P8.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Wipes

Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6031
Client Job Number:	N/A		
Field Location:	B240-OS-NW	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Wipe	**Date Analyzed:**	07/01/2002

PCB Identification	Results in ug / Wipe
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
ug / Wipe = microgram per Wipe

Signature: _____
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021622P9.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Wipes

Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6032
Client Job Number:	N/A		
Field Location:	B240-OS-W	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Wipe	**Date Analyzed:**	07/01/2002

PCB Identification	Results in ug / Wipe
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
ug / Wipe = microgram per Wipe

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021622Q1.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Wipes

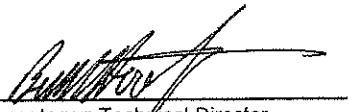
Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6033
Client Job Number:	N/A		
Field Location:	B240-OS-SW	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Wipe	**Date Analyzed:**	07/01/2002

PCB Identification	Results in ug / Wipe
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
ug / Wipe = microgram per Wipe

Signature: 

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021622Q2.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Wipes

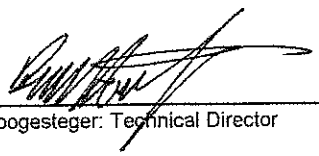
Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6034
Client Job Number:	N/A		
Field Location:	B240-OS-SE	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Wipe	**Date Analyzed:**	07/01/2002

PCB Identification	Results in ug / Wipe
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
ug / Wipe = microgram per Wipe

Signature: 

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021622Q3.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Wipes

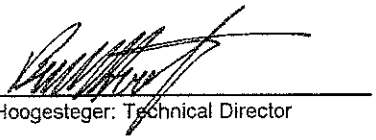
Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6035
Client Job Number:	N/A		
Field Location:	B240-OS-E	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Wipe	**Date Analyzed:**	07/01/2002

PCB Identification	Results in ug / Wipe
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
ug / Wipe = microgram per Wipe

Signature: 

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021622Q4.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Wipes

Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6036
Client Job Number:	N/A		
Field Location:	B240-OS-NE	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Wipe	**Date Analyzed:**	07/01/2002

PCB Identification	Results in ug / Wipe
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
ug / Wipe = microgram per Wipe

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021622Q5.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997
FAX: (716) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:		
COMPANY:	COMPANY:	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:	ADDRESS:		
CITY: STATE: ZIP:	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:	PHONE: FAX:	STD	OTHER
PROJECT NAME/SITE NAME:	ATTN:	ATTN:	☐ 1 ☐ 2 ☐ 3 ☐ 5 ☐
	COMMENTS:		

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS										REMARKS	PARADIGM LAB SAMPLE NUMBER				
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐

Sampled By: Date/Time:

Relinquished By: Date/Time:

Received By: Date/Time:

Relinquished By: Date/Time:

Received By: Date/Time:

Received @ Lab By: Date/Time:

Total Cost:

P.I.F.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997
FAX: (716) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	
COMPANY:	COMPANY:	LAB PROJECT #: / CLIENT PROJECT #:
ADDRESS:	ADDRESS:	
CITY: STATE: ZIP:	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)
PHONE: FAX:	PHONE: FAX:	STD / OTHER
PROJECT NAME/SITE NAME:	ATTN:	ATTN: 1 2 3 5
	COMMENTS:	

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS										REMARKS	PARADIGM LAB SAMPLE NUMBER				
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE:

Sampled By: Date/Time:

Relinquished By: Date/Time:

Received By: Date/Time:

Relinquished By: Date/Time:

Received By: Date/Time:

Received @ Lab By: Date/Time:

Total Cost:

P.I.F.

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Polychlorinated Biphenyls Laboratory Analysis Report For Wipes

Client: Lu Engineers
Client Job Site: RRS-B240
Client Job No.: N/A
Method Reference: EPA 8082

Lab Project No.: 02-1500
Sample Type: Wipe
Date Sampled: 06/14/02
Date Received: 06/17/02
Date Analyzed: 06/21/02

Lab Sample ID	Field Location	Aroclor ID	Concentration (ug/wipe)
5568	EP1A W. Wall	PCB	ND<1.0
5569	EP2A S. Wall	PCB	ND<1.0
5570	EP3A E. Wall	PCB	ND<1.0
5571	EP4A E. Wall Btm.S	PCB	ND<1.0
5572	EP5A E. Ledge	PCB 1260	1.03
5573	EP6A N. Wall	PCB	ND<1.0
5574	EP7A W. Wall btm.N	PCB	ND<1.0
5575	EP8A W. Ledge N	PCB	ND<1.0
5576	EP9A W. Ledge S	PCB 1260	1.94
5577	EP10A Flr SW	PCB	ND<1.0
5578	EP11A Flr SE	PCB	ND<1.0
5579	EP12A Flr NE	PCB	ND<1.0
5580	EP13A Flr N Ctr	PCB	ND<1.0
5581	EP14A Flr NW	PCB	ND<1.0
5582	EP15A E Bumper	PCB	ND<1.0
5583	EP16A W Bumper	PCB	ND<1.0
5584	EP17A Flr S. Ctr	PCB	ND<1.0
5585	EP18A Flr E bump	PCB	ND<1.0
5586	EP19A E Ledge N	PCB	ND<1.0

ELAP ID: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director

File ID: 021500P1.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997
FAX: (716) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:		
COMPANY:	COMPANY:	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:	ADDRESS:		
CITY: STATE: ZIP:	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:	PHONE: FAX:		
PROJECT NAME/SITE NAME:	ATTN:	☐ 1 ☐ 2 ☐ 3 ☐ STD ☐ 5 ☐ OTHER	
	COMMENTS:		

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS										REMARKS	PARADIGM LAB SAMPLE NUMBER				
1																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐

Sampled By:	Date/Time:	Relinquished By:	Date/Time:	Total Cost:
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Received By:	Date/Time:	Received @ Lab By:	Date/Time:	P.I.F.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997
FAX: (716) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	
COMPANY:	COMPANY:	LAB PROJECT #: / CLIENT PROJECT #:
ADDRESS:	ADDRESS:	
CITY: STATE: ZIP:	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)
PHONE: FAX:	PHONE: FAX:	STD / OTHER
PROJECT NAME/SITE NAME:	ATTN:	ATTN: 1 2 3 5
	COMMENTS:	

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS										REMARKS	PARADIGM LAB SAMPLE NUMBER
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE:

Sampled By:	Date/Time:	Relinquished By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received By:	Date/Time:	Received @ Lab By:	Date/Time:

Total Cost:

P.I.F.

ATTACHMENT 9

PCB-CONTAMINATED WASTE DISPOSAL DOCUMENTATION

HAZARDOUS MATERIALS CORRECTIVE ACTION
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

FEBRUARY 2003

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

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N.Y.6.5.7.0.0.4.3.4.2.6 | Manifest Doc. No. 09132 | 2. Page 1 of 1

3. Generator's Name and Mailing Address: Air Force Research Laboratory
150 Electronics Pkwy
Rome NY 13441

32 Brooks Road, Bldg.240
Rome, NY 13441

4. Generator's Phone (315) 330-2098

5. Transporter 1 Company Name: Hazmat Environmental Group Inc.
6. US EPA ID Number: N.Y.D.9.8.0.7.6.9.9.4.7
A. Transporter's Phone: (716) 827-7200

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address: CWM Chemical Services, LLC
1550 Balmer Road
Model City NY 14107
10. US EPA ID Number: N.Y.D.0.4.9.8.3.6.6.7.9
C. Facility's Phone: (716) 754-8231

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-regulated Decontamination Wastewater	1	D.M	EST 300	
b. Non-regulated Cleanup Solids	1	D.M	EST 300	
c.				
d.				

GENERATOR

J. Additional Descriptions for Materials Listed Above
a.
b.
c.
d.

E. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

15. Special Handling Instructions and Additional Information

WTS#5701 SR#
Emer. Contact: 315-339-2961
a. CV2573
b. CV2572

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Aleana M. Stone | Signature: Aleana M. Stone | Month 09 Day 13 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Timothy Hurley | Signature: Tim Hurley | Month 9 Day 13 Year 2

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

FACI

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month Day Year

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

ORIGINAL – RETURN TO GENERATOR

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: RRS / B240

Client Job No.: N/A

Lab Project No.: 02-1622

Sample Type: Water
Method: EPA 9040

Date(s) Sampled: 06/27/2002
Date Received: 06/28/2002

Date Analyzed: 06/28/2002

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
6022W	N/A	B240-WW-01	7.60

ELAP ID No.: 10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID:021622

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 716-647-2530 FAX 716-647-3311

LABORATORY REPORT OF ANALYSIS

Client: Lu Engineers

Client Job Site: RRS/B240

Client Job No.: N/A

Lab Project No.: 02-1622

Sample Type: Water
Analytical Method: EPA 415.2
Date Sampled: 06/27/2002
Date Received: 06/28/2002

Lab Sample ID.	Field Location/ Sample ID	Date Analyzed	Total Organic Carbon (mg/l)
6022	B240-WW-01	07/09/02	7,550

ELAP ID No. 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: TOC021622

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PHC Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6022-W
Client Job Number:	N/A		
Field Location:	B240-WW-01	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Water	**Date Analyzed:**	07/10/2002

PHC Classification	Results in ug / L
Light Weight PHC as: Mineral Spirits	10,500
Heavy Weight PHC as: Lube Oil	9,580

ELAP Number 10958 Method: NYSDOH 310.13

Comments: ND denotes Non Defect
ug / L = microgram per Liter
PHC = Petroleum Hydrocarbon

Signature: _____
Bruce Hoogestege, Technical Director

Chain of Custody provides additional sample information

File ID: 021622S1.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Oils

Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6022-O
Client Job Number:	N/A		
Field Location:	B240-WW-01	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Oil	**Date Analyzed:**	07/09/2002

PCB Identification	Results in mg / Kg
Aroclor 1016	ND< 0.962
Aroclor 1221	ND< 0.962
Aroclor 1232	ND< 0.962
Aroclor 1242	ND< 0.962
Aroclor 1248	ND< 0.962
Aroclor 1254	ND< 0.962
Aroclor 1260	1.99

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature: _____
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 021622P1.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 716-647-2530 FAX 716-647-3311

LABORATORY REPORT OF ANALYSIS

Client: Lu Engineers

Client Job Site: RRS/B240

Client Job No.: N/A

Lab Project No.: 02-1622

Sample Type: Soil
Analytical Method: EPA 9060
Date Sampled: 06/27/2002
Date Received: 06/28/2002

Lab Sample ID.	Field Location/ Sample ID	Date Analyzed	Total Organic Carbon (%)
6023	B240-WS-01	07/10/02	77

ELAP ID No. 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: TOC021622p2

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PHC Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6023
Client Job Number:	N/A		
Field Location:	B240-Sump2-N	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Soil	**Date Analyzed:**	07/10/2002

PHC Classification	Results in ug / Kg
Light Weight PHC as: Mineral Spirits	3,430,000
Heavy Weight PHC as: Lube Oil	72,800,000

ELAP Number 10958 Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021622S2.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS / B240	**Lab Project Number:**	02-1622
		Lab Sample Number:	6023
Client Job Number:	N/A		
Field Location:	B240-WS-01	**Date Sampled:**	06/27/2002
Field ID Number:	N/A	**Date Received:**	06/28/2002
Sample Type:	Soil	**Date Analyzed:**	07/09/2002

PCB Identification	Results in mg / Kg
Aroclor 1016	ND< 0.518
Aroclor 1221	ND< 0.518
Aroclor 1232	ND< 0.518
Aroclor 1242	ND< 0.518
Aroclor 1248	ND< 0.518
Aroclor 1254	ND< 0.518
Aroclor 1260	2.94

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature:

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 021622P2.XLS

APPENDIX G4

PHASE II EBS STATUS – MARCH 2003

ENVIRONMENTAL BASELINE SURVEY
PARCEL 1, ROME RESEARCH SITE
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

LU ENGINEERS
Civil and Environmental

MEMORANDUM **March 19, 2003**

To: Mike Bamberger, AFRL RRS/IFOCV
From: Greg Andrus
RE: RRS Griffiss Properties, Phase II EBS Status
Parcel 1 (B-240, 247 and 248)

This memorandum is intended as an interim update to the Environmental Baseline Survey (EBS) currently being completed for Parcel 1. The current project is a continuation of the EBS currently in progress for RRS properties located at the Griffiss Business and Technology Park.

Background

From May through September 2002, Lu Engineers conducted Phase II EBS focusing on three previously identified EBS areas of concern (AOCs) associated with the Annex basement at Building 240 (B-240). This work was conducted at the request of RRS in order to fully characterize the following EBS AOCs:

- AOC-B240-03, B-240 Elevator Shaft
- AOC-B247-02, Photography Laboratory
- AOC-B240-09, B-240 Dry Wells

The location of each subject AOC is indicated on the plan provided as Attachment 1.

The Phase II EBS process was designed to address recommendations made as part of Phase II EBS sampling and testing conducted during 2001. The findings of this previous work are summarized in a memorandum dated March 2001 from Lu Engineers to RRS. The following sections provide brief synopses of the EBS findings leading up to this final stage of the Phase II EBS portion of this project.

AOC-B240-03, B-240 Elevator Shaft

PCB-contaminated oil staining was identified in association with this elevator system. The system was also found to include small volume leaks at pipe and hydraulic fittings at various locations. Lu Engineers has recommended that additional research be conducted regarding available detailed elevator service records. Lu Engineers has also recommended that the elevator's hydraulic system be serviced by qualified and appropriately certified personnel to repair any leaks, which may otherwise be on-going.

Oil staining and related contaminated debris was removed from the elevator pit during Lu Engineer's Corrective Action work at Parcel 1 during 2002. A memorandum detailing this corrective action process was submitted to RRS in February 2003.

Prior to the current phase of the EBS for Parcel 1, no information was available as to the potential presence of soil contamination in the area of the B-240 elevator. The possibility of potential subsurface impacts in this area warranted soil sampling beneath the building's basement floor adjacent to the elevator shaft.

AOC-B240-09, B-240 Dry Wells

Roof coring was conducted at B-240 in 2001 to determine if PCB-contaminated materials may be present in the building's roof system. Sample results did not indicate the presence of detectable levels of PCBs in the building's roof system. Therefore, sampling of roof drain dry wells does not appear to be warranted at the present time. However, Lu Engineers has recommended that additional sampling and testing be conducted in association with the dry well at the east end of B-240 due to the presence of elevated levels of RCRA metals contamination in sediment in the associated floor drain.

AOC-B247-02, Photography Laboratory

During the initial phase of the EBS, a concrete-lined drainage trench was identified leading from the B-247 chemical storage room into the building's floor drain system. This drainage trench was found to be deteriorated at the connection of steel floor drain system piping connected to the trench. This deterioration may have allowed liquids to bypass the drainage inlet and drain directly to the soils beneath the B-247 photographic shop floor in the event of a spill.

Lu Engineers has recommended that additional sampling and testing be conducted in association with this AOC to determine whether detected contaminants may have entered the environment and/or the building foundation.

Description of Field Activities

All personnel directly involved with the sampling, testing, excavation and related activities including supervision of work had undergone training as specified by 29 CFR Part 1910 for hazardous waste site operations prior to the time of site work. Field work commenced on July 22, 2002 and continued through September 12, 2002. Lu Engineers personnel were assisted throughout the sampling and testing process by Mr. Hank Kleaka, Building Manager. Mr. Kleaka provided support in the process of gaining access to all work areas and storage and transfer of equipment, personnel and materials.

Soils observed during the subsurface sampling and testing were almost entirely comprised of medium-grained sand and gravel. Concrete and wood debris was also observed in the test pit located at the east end of B-240. Groundwater depths were found to vary from approximately 13 to 18 feet below grade. PID readings obtained from soils at Parcel 1 during this portion of the EBS are tabulated below.

SOIL PROBE	0-4'	4-8'	8-12'	12-16'
B240-GP-01	0.4	0.1	0.2	10.0
B240-GP-02	N/D	N/D	N/D	N/D
B247-GP-01	0.3	0.2	N/D	0.3

All readings listed as parts per million (ppm) above background
N/D indicates volatile organics not detected above background

Representative photographs of the site work are provided in Attachment 2.

The findings of the recent sampling and testing, concurrent remedial activities at Parcel 1 and previous remedial and site investigation work associated with this property are referenced in the following sections, as appropriate. Specific findings with respect to EBS AOCs associated with Parcel 1 that have been evaluated and/or remediated to the extent necessary during previous EBS work at Parcel 1 have been omitted from the following sections.

AOC-B240-03, Elevator Shaft

Sampling below the elevator pit floor was conducted on July 22, 2002 by means of a track-mounted Geoprobe® equipped with a two-inch diameter sample barrel. This sample location is designated as B240-GP-01 on the Sample/Test Location Plan provided as Attachment 1.

The probe was driven in four-foot intervals to a total depth of 16 feet below the basement floor grade, or approximately 24 feet below local ground surface.

As indicated above, relatively low levels of volatile organic vapor were identified during sampling at B240-GP-01. A total of three samples were obtained for laboratory analysis from B240-GP-01. The laboratory analytical report and tabulated analytical results are provided in Attachment 3.

The following table identifies the soil samples submitted for laboratory analyses with respect to AOC-B240-03 and indicates generalized analytical findings:

SAMPLE NUMBER	ANALYTES	RESULTS
B240-GP-01A (4-8 ft interval)	Total Petroleum Hydrocarbons and PCBs	Elevated Petroleum Hydrocarbons, no PCBs
B240-GP-01B (8-12 ft interval)	Total Petroleum Hydrocarbons and PCBs	Elevated Petroleum Hydrocarbons, no PCBs
B240- GP-01C (12-16 ft interval)	Total Petroleum Hydrocarbons, TCL Semivolatile Organics and PCBs	Elevated Petroleum Hydrocarbons, no PCBs, no Semivolatile Organics

Additional efforts were made to obtain information relating the service history of this elevator. However, Lu Engineers was unable to assemble a viable service history for this system.

The analytical results indicate that hydraulic fluid from the elevator system has apparently entered the subsurface in this location. The slightly elevated PID reading of 10 ppm obtained from the 16-foot interval also supports this conclusion, although no free-phase hydraulic fluid was observed during sampling. The fact that the system has been in operation for approximately 50 years indicates that this contamination is likely the result of long-term, low-volume spillage from the system rather than a significant spill event. The lack of free-phase hydraulic fluid at this location is considered to be an indication that microbial degradation is successfully eliminating subsurface hydraulic oil contamination.

It is contended that once the recommended repairs have been made to the elevator's hydraulic system, any remaining hydraulic fluid in the subsurface will be remediated by natural microbial degradation. Based on the information currently available, AOC-B240-03 should be considered to be EBS Category 2 property.

AOC-B240-09, B-240 Dry Wells

On August 12, 2002, a test pit was excavated at B-240, 20 feet east of the eastern edge of the B-240 basement shaftway. The location of this test pit was selected based on the location of a dry well indicated on available record plans for B-240. This dry well was documented as receiving drainage from the area drain located at the bottom of the B-240 basement shaftway. Previous EBS sampling and testing at the area drain had indicated the presence of elevated levels of mercury, lead, PCBs, acetone and butylbenzylphthallate.

The test pit measured approximately 6-feet by 8-feet in area and was excavated to a total depth of 13 feet below grade. This depth corresponded to the depth of the drywell indicated on the B-240 record plans. Excavation revealed the presence of large chunks of concrete and wood debris, but the drywell was not found. The presence of numerous underground utilities in the area of the test pit prevented significant expansion of the excavation. No detectable volatile organic readings were observed with the PID during installation of this test pit.

The test pit was backfilled with native soils upon completion of sampling. Existing pavement was then saw cut, and new asphalt pavement was installed over the test pit location.

A single soil sample was obtained from the bottom of the test pit, B240-DW-01. This sample was submitted to an accredited laboratory for the following analyses:

- TCL Volatile Organics by EPA Method 8260
- TCL Semivolatile Organics by EPA Method 8270
- RCRA Metals
- PCBs

The laboratory analytical report is provided in Attachment 3. Tabulated analytical findings are also provided for analytes with detectable results. It is noted that volatile organic sample results for the test pit sample are represented by sample B240-GP-02. A laboratory error resulted in the invalidation of the volatile organic results from the sample taken from the test pit. Sample B240-GP-02 was obtained from a depth of 13 feet below grade by means of a Geoprobe®. The B240-GP-02 sample was located one foot north of the north side of the test pit excavation.

Laboratory analysis detected the presence of a total of seven semivolatile organic compounds. Of these, three including benzo(a)anthracene, benzo(a)pyrene and chrysene were detected at levels exceeding NYSDEC guidance criteria. However, the type and detected concentrations of these semivolatile organics are typical of sites with a long history of industrial use. It is also noted that the detected contaminants are not consistent with those detected in the area drain sample. Therefore, the nearby area drain is not considered to be the likely source of the semivolatile organic soil contamination in this area.

One or more of the numerous potential offsite sources of semivolatile organics in this area of the Griffiss Business and Technology Park site is considered to be the most likely source of the detected contamination at B240-DW-01 and GP-02. These potential sources are being evaluated and remediated as necessary through the on-going efforts of the Air Force Base Conversion Agency.

Lu Engineers has recommended that the sediment and debris remaining in the B-240 hatchway be removed and properly disposed in order to eliminate the possibility of contaminants entering the subsurface via the area drain in this location. This cleanup will allow for the recategorization of AOC-B240-03 to EBS Category 3 property. Until the cleanup of the shaftway is completed, AOC-B240-09 should be considered to be EBS Category 5 property.

AOC-B247-02, Photography Laboratory

On July 22, 2002, a track-mounted Geoprobe® was used to sample soils beneath the drainage trench in the B-247 photography lab. The sample location is designated as B247-GP-01 on the plan provided in Attachment 1.

Low levels of volatile organic vapor were identified during sampling at B247-GP-01. A total of two samples were obtained for laboratory analysis from B247-GP-01. The laboratory analytical report and tabulated analytical results are provided in Attachment 3.

The following table identifies the soil samples submitted for laboratory analyses with respect to AOC-B247-02 and indicates generalized analytical findings:

SAMPLE NUMBER	ANALYTES	RESULTS
B247-GP-01A (0-4 ft interval)	PCBs, TCL Volatiles and Semivolatiles, RCRA Metals, pH and Reactivity	No indications of contamination identified
B247-GP-01B (4-8 ft interval)	PCBs, TCL Volatiles and Semivolatiles, RCRA Metals, pH and Reactivity	No indications of contamination identified

The only analytes detected by the laboratory analysis conducted on these samples were RCRA metals. The concentrations of the detected RCRA metals did not approach regulatory criteria.

RRS has completed the process of removing and properly disposing of the various chemicals stored in the B-247 photography laboratory chemical storage room. The removal of these materials has eliminated the potential for chemical spillage in the chemical storage room, which previously could have resulted in the release of chemicals into the subsurface through the damaged drainage trench.

Based on the information currently available, AOC-B247-02 should be considered to be EBS Category 1 property.

Facility Matrix

The following table provides a summary of the EBS status for each of the AOCs identified within Parcel 1:

AOC / BLDG.	AOC NAME	CURRENT EBS STATUS
Building 240		
AOC-B240-01	Chiller Solution Tanks	**EBS Category 5**
AOC-B240-02	Basement Floor Drains and Sumps	EBS Category 4
AOC-B240-03	B-240 Elevator Shaft	EBS Category 4
AOC-B240-04	Oil Stained Areas in the Basement	EBS Category 4
AOC-B240-05	Caged Storage in Basement	EBS Category 1
AOC-B240-06	Abandoned Oils and Miscellaneous Materials	EBS Category 1
AOC-B240-07	Open Pits at Basement Load Centers	EBS Category 3
AOC-B240-08	Former Building Uses	EBS Category 4
AOC-B240-09	B-240 Dry Wells	**EBS Category 5**
AOC-B240-10	Locked Hatch, Southeast Corner B-240	EBS Category 1
AOC-B240-11	Stressed Vegetation along Perimeter Fence	EBS Category 3
AOC-B240-12	Building 240/247/248 Fmr. Drum Storage Area	EBS Category 1
Building 247		
AOC-B247-01	Equipment Room A	EBS Category 1
AOC-B247-02	Photography Laboratory	EBS Category 3
AOC-B247-03	Stained Floor Mechanical Room	EBS Category 2
Building 248		
AOC-B248-01	Stained Floor Mechanical Room	EBS Category 2
AOC-B248-02	Floor Drains and Acid Neutralization Sump	EBS Category 1
AOC-B248-03	B-248 Dry Wells	EBS Category 3
AOC-B248-04	Abandoned Hazardous Materials	EBS Category 4

Note: AOCs classified above Category 4 are bold for reference.

Recommendations

AOC-B240-03, B-240 Elevator Shaft

It is recommended that this elevator system be serviced as soon as practicable. Service should include the installation of new seals on leaking hydraulic lines and the hydraulic ram. RRS may wish to consider vegetable-based hydraulic fluids for this system as an alternative to the petroleum based fluid currently in use. The integrity of the hydraulic ram casing, which extends approximately 45 feet below the basement floor, should be tested to ensure it will not leak into the surrounding soils and groundwater.

AOC-B240-09, B-240 Dry Wells

It is recommended that contaminated sediments present in the shaftway located at the east end of B-240 be appropriately removed and disposed as soon as practicable.

AOC-B247-02, Photography Laboratory

It is recommended that the damaged drainage trench located in the B-247 photography laboratory be repaired as soon as practicable.

ATTACHMENT 1

REFERENCE PLAN

PHASE II EBS
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

MARCH 2003

ATTACHMENT 2

REPRESENTATIVE PHOTOGRAPHS

PHASE II EBS
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

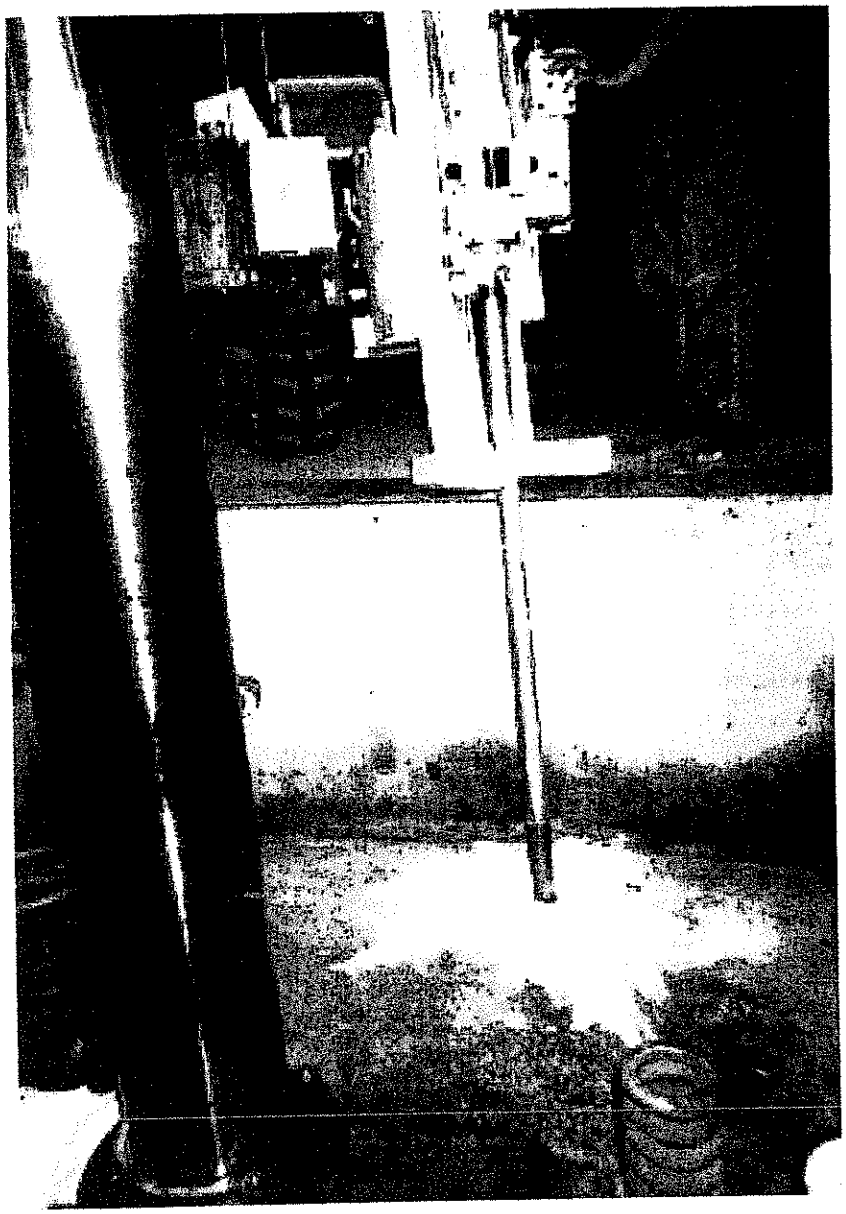
MARCH 2003

LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
Phase II EBS, Parcel 1 – Rome Research Site

DATE
August 2002

SUBJECT
Installation of B240-GP-01 in elevator pit floor. Elevator hydraulic shaft visible at left.

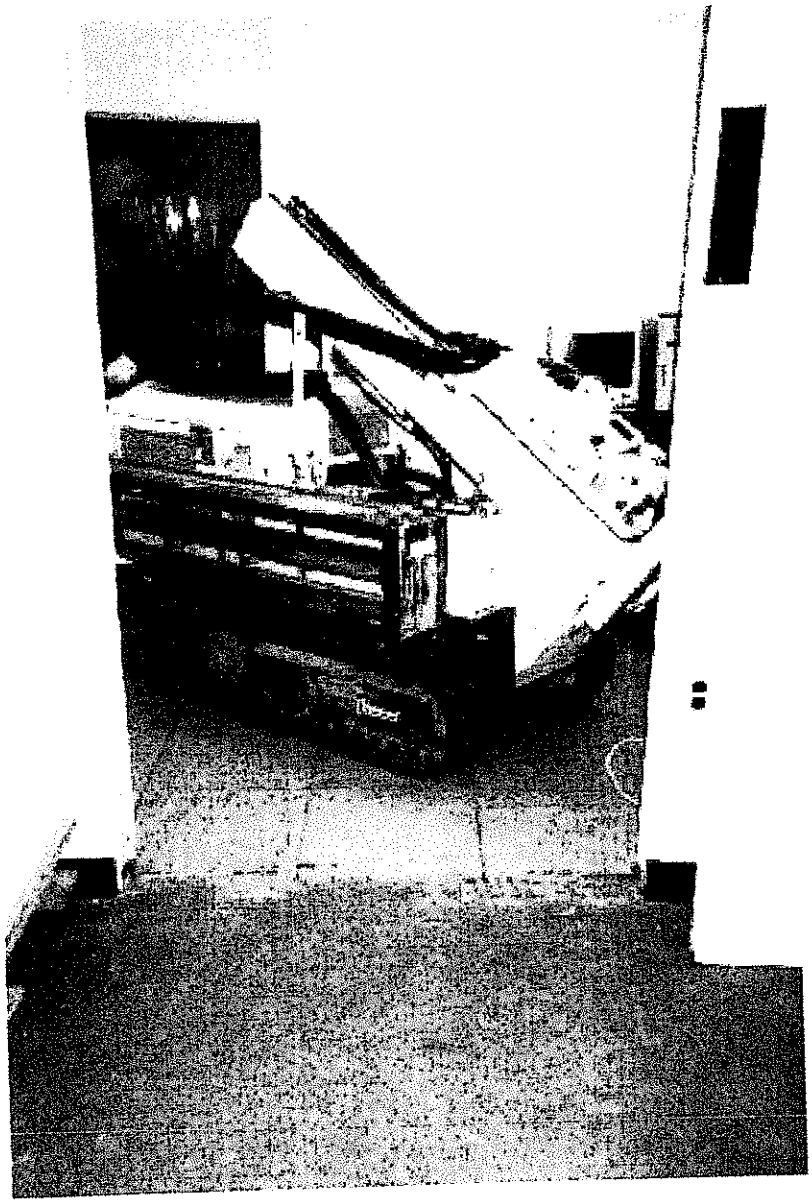


LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
Phase II EBS, Parcel 1 – Rome Research Site

DATE
August 2002

SUBJECT
Maneuvering track-mounted geoprobe through vacant offices in B-247.

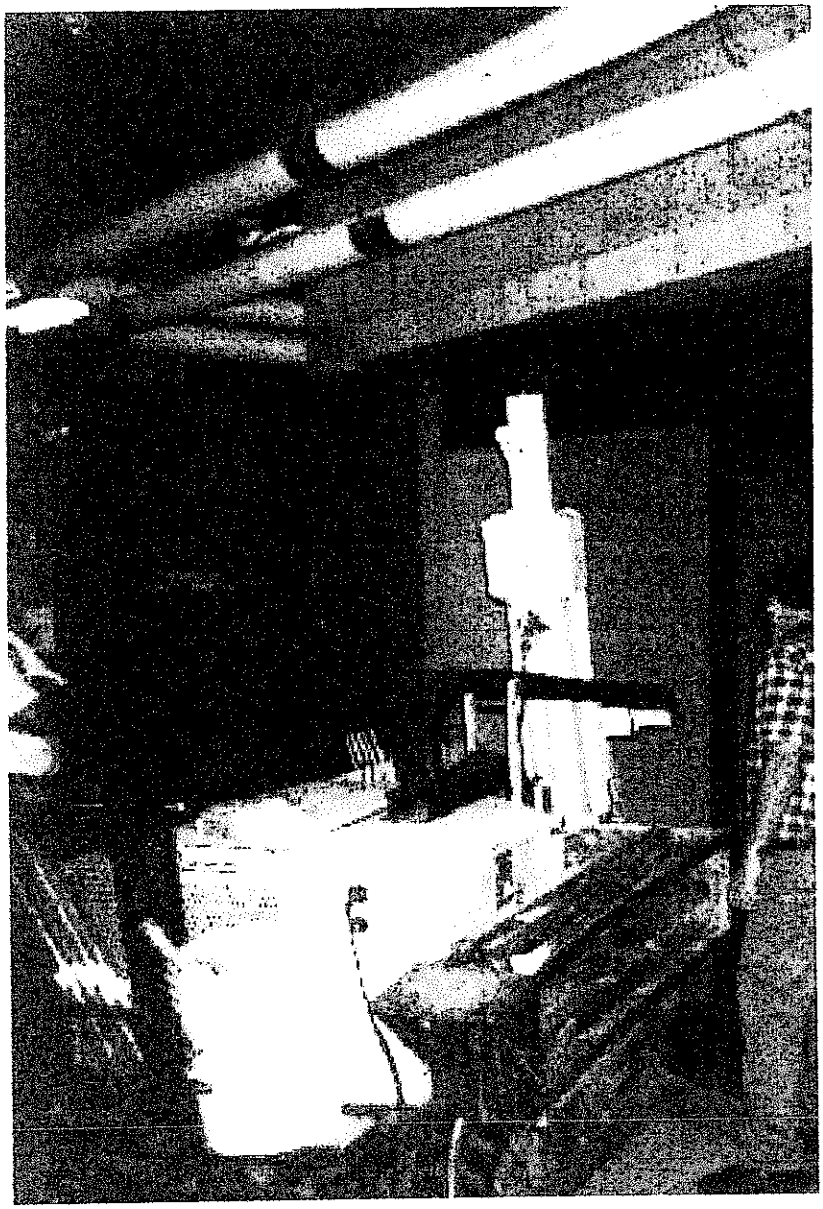


LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
Phase II EBS, Parcel 1 – Rome Research Site

DATE
August 2002

SUBJECT
Maneuvering track-mounted geoprobe to install B240-GP-01 in B240 basement.

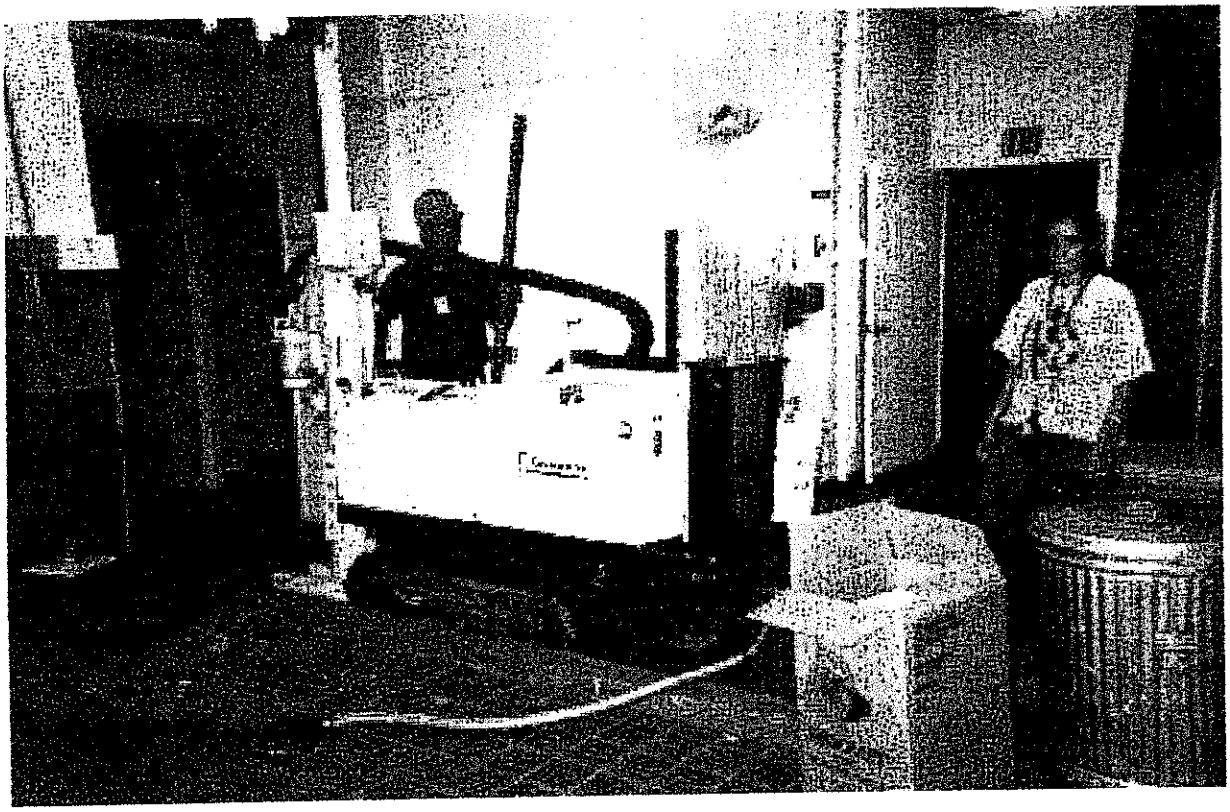


LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
Phase II EBS, Parcel 1 – Rome Research Site

DATE
August 2002

SUBJECT
Installation of B247-GP-01 through drainage trench in B-247 photo lab. Steel hose in foreground used to convey exhaust fumes to building exterior

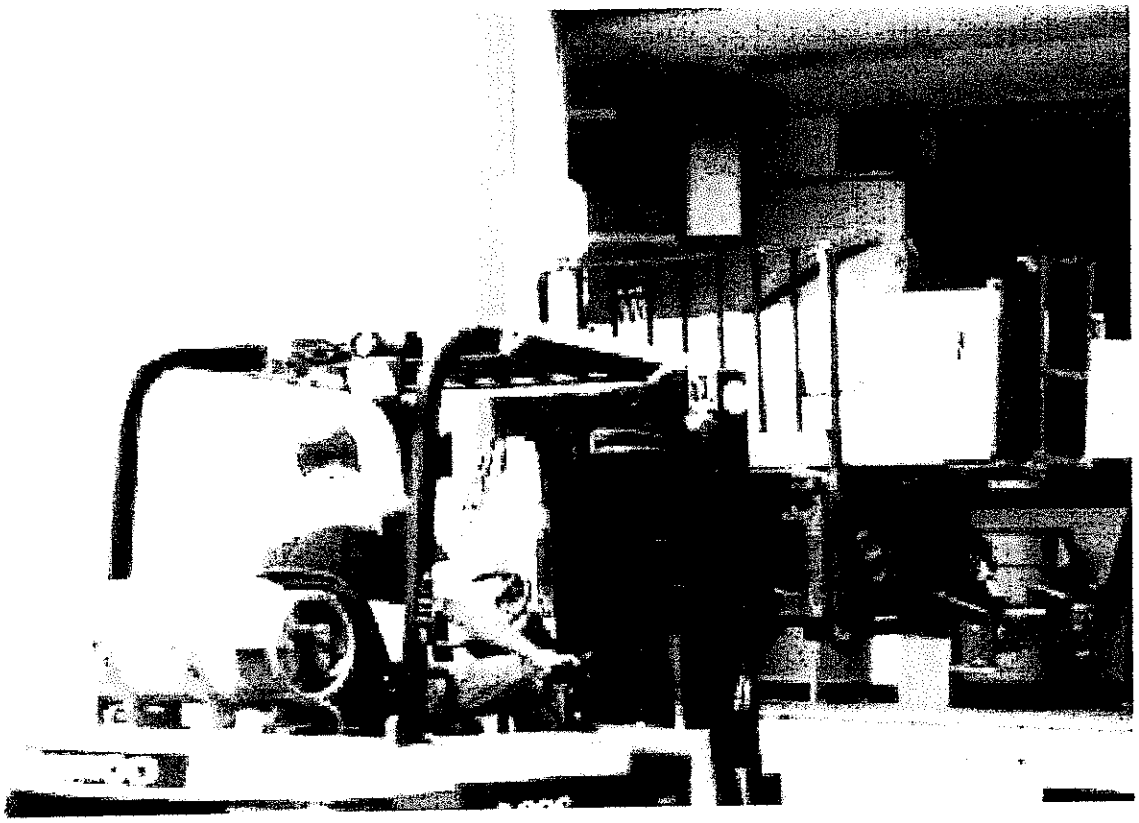


LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
Phase II EBS, Parcel 1 – Rome Research Site

DATE
August 2002

SUBJECT
Using fork-lift to move track-mounted geoprobe into B-240 loading dock for access to basement.



LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
Phase II EBS, Parcel 1 – Rome Research Site

DATE
August 2002

SUBJECT
Repaving test pit location upon completion of subsurface sampling and testing at east end of B-240.

LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
Phase II EBS, Parcel 1 – Rome Research Site

DATE
August 2002

SUBJECT
Setting up equipment to install test pit at east end of B-240.

ATTACHMENT 3

TABULATED ANALYTICAL DATA AND LABORATORY ANALYTICAL REPORTS

PHASE II EBS
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

FEBRUARY 2003

PARCEL I PHASE II EBS – March 2003.
METALS
SAMPLE TYPE: SEDIMENT AND SOIL
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B247-GP-01A	B247-GP-01B	B240-DW-01	TCLP ALT. GUID. VALUE[2]	REC. SOIL CLEANUP OBJECTIVE (MAX)[3]
Arsenic	4.82	6.54	4.61	100	7.5
Barium	52.6	40.6	37.4	2000	300
Cadmium	0.800	0.779	0.933	20	10
Chromium	13.7	8.66	10.3	100	50
Lead	10.8	<10.1	8.88	100	400
Mercury	<0.0856	<0.0830	<0.082	4	0.1
Selenium	<0.530	<0.504	<0.495	20	2
Silver	<1.06	<1.01	<0.990	100	SB[4]

1 All data presented as milligrams per kilogram (mg/kg)
2 TCLP Alternative Guidance Value for Toxicity Characteristic (NYSDEC STARS Memo #1, 8/92)
3 Soil Cleanup Objectives and Cleanup Levels (NYSDEC TAGM 4046, 1/94)
4 Site Background

PARCEL I PHASE II EBS – March 2003.
SEMIVOLATILE ORGANICS
SAMPLE TYPE: SEDIMENT AND SOIL
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-GP-01C	B247-GP-01A	B247-GP-01B	B240-DW-01	ALLOWED SOIL CONC.[2]	REC. SOIL CLEANUP OBJECTIVE (MAX)[2]
Benzo (a) anthracene	BDL	BDL	BDL	**566**	30	224
Benzo (a) pyrene	BDL	BDL	BDL	**550**	110	61
Benzo (b) fluoroanthene	BDL	BDL	BDL	664	11	1,100
Chrysene	BDL	BDL	BDL	**638**	4.0	400
Fluoroanthene	BDL	BDL	BDL	1,030	19,000	50,000
Phenanthrene	BDL	BDL	BDL	504	2,200	50,000
Pyrene	BDL	BDL	BDL	1,060	6,665	50,000

1 Results represented as micrograms per kilogram (ug/kg)
2 Soil Cleanup Objectives and Cleanup Levels (NYSDEC TAGM 4046, 1/94)
3 BDL – Below Detectable Limit

PARCEL I PHASE II EBS – March 2003
PETROLEUM HYDROCARBONS
SAMPLE TYPE: SOIL
DETECTED PARAMETERS

DETECTED PARAMETERS[1]	B240-GP-01A	B240-GP-01B	B240-GP-01C	APPL. STD[3]
Heavy Weight PHC as Lube Oil	553,000	528,000	1,690,000	N/A
Medium Weight PHC as Diesel Fuel	BDL[2]	BDL[2]	137,000	N/A

1 All data presented as micrograms per kilogram (ug/kg)
2 BDL: Below detectable limits
3 N/A: Not Applicable

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: RRs EBS, Parcel 1

Client Job No.: 13124-09

Field Location: B247-GP-01A
Field ID No.: N/A

Lab Project No.: 02-1885
Lab Sample No.: 6957

Sample Type: Soil

Date Sampled: 07/22/2002
Date Received: 07/26/2002

Laboratory Report for Solid Waste Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Arsenic	08/01/2002	SW846 6010	4.82
Barium	08/01/2002	SW846 6010	52.6
Cadmium	08/01/2002	SW846 6010	0.800
Chromium	08/01/2002	SW846 6010	13.7
Lead	08/02/2002	SW846 6010	10.8
Mercury	07/30/2002	SW846 7471	<0.0856
Selenium	08/01/2002	SW846 6010	<0.530
Silver	08/01/2002	SW846 6010	<1.06

ELAP ID No.:10958

Comments:

Approved By: Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID:021885

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: RRs EBS, Parcel 1

Client Job No.: 13124-09

Field Location: B247-GP-01B
Field ID No.: N/A

Lab Project No.: 02-1885
Lab Sample No.: 6958

Sample Type: Soil

Date Sampled: 07/22/2002
Date Received: 07/26/2002

Laboratory Report for Solid Waste Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Arsenic	08/01/2002	SW846 6010	6.54
Barium	08/01/2002	SW846 6010	40.6
Cadmium	08/01/2002	SW846 6010	0.779
Chromium	08/01/2002	SW846 6010	8.66
Lead	08/02/2002	SW846 6010	<10.1
Mercury	07/30/2002	SW846 7471	<0.0830
Selenium	08/01/2002	SW846 6010	<0.504
Silver	08/01/2002	SW846 6010	<1.01

ELAP ID No.:10958

Comments:

Approved By: For: Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID:021885

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 716-647-2530 FAX 716-647-3311

LABORATORY REPORT OF ANALYSIS

Client: Lu Engineers

Client Job Site: RRS EBS, Parcel 1

Client Job No.: 13124-09

Lab Project No.: 02-1885

Sample Type: Soil
Analytical Method: EPA 9012
Date Sampled: 07/22/2002
Date Received: 07/26/2002
Date Analyzed: 07/31/2002

Lab Sample ID.	Field Location/Sample ID	T-Cyanide (mg/kg)
6957	B247-GP-01A	ND<1
6958	B247-GP-01B	ND<1

ELAP ID No. 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID: VarLoc02-1885

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

pH Analysis Report

Client: Lu Engineers

Client Job Site:	RRS EBS, Parcel 1	**Lab Project Number:**	02-1885
Client Job Number:	13124-09		
		Date Sampled:	07/22/2002
		Date Received:	07/26/2002
Sample Type:	Soil	**Date Analyzed:**	07/26/2002

Lab Sample Number	Field Number	Field Location	Result (pH)
6957	N/A	B247-GP-01A	10.26
6958	N/A	B247-GP-01B	7.69

ELAP Number 10958

Method: EPA 9040

Comments:

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021885PH.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS EBS, Parcel 1	**Lab Project Number:**	02-1885
		Lab Sample Number:	6957
Client Job Number:	13124-09		
Field Location:	B247-GP-01A	**Date Sampled:**	07/22/2002
Field ID Number:	N/A	**Date Received:**	07/26/2002
Sample Type:	Soil	**Date Analyzed:**	08/01/2002

PCB Identification	Results in mg / Kg
Aroclor 1016	ND< 0.468
Aroclor 1221	ND< 0.468
Aroclor 1232	ND< 0.468
Aroclor 1242	ND< 0.468
Aroclor 1248	ND< 0.468
Aroclor 1254	ND< 0.468
Aroclor 1260	ND< 0.468

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021885P4.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Soils/Solids/Sludges

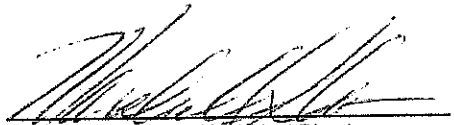
Client: Lu Engineers

Client Job Site:	RRS EBS, Parcel 1	**Lab Project Number:**	02-1885
		Lab Sample Number:	6958
Client Job Number:	13124-09		
Field Location:	B247-GP-01B	**Date Sampled:**	07/22/2002
Field ID Number:	N/A	**Date Received:**	07/26/2002
Sample Type:	Soil	**Date Analyzed:**	08/01/2002

PCB Identification	Results in mg / Kg
Aroclor 1016	ND< 0.450
Aroclor 1221	ND< 0.450
Aroclor 1232	ND< 0.450
Aroclor 1242	ND< 0.450
Aroclor 1248	ND< 0.450
Aroclor 1254	ND< 0.450
Aroclor 1260	ND< 0.450

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature: 
For: Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021885P5.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS EBS, Parcel 1	**Lab Project Number:**	02-1885
		Lab Sample Number:	6957
Client Job Number:	13124-09		
Field Location:	B247-GP-01A	**Date Sampled:**	07/22/2002
Field ID Number:	N/A	**Date Received:**	07/26/2002
Sample Type:	Soil	**Date Analyzed:**	08/02/2002

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 8.77
Bromomethane	ND< 8.77
Bromoform	ND< 8.77
Carbon tetrachloride	ND< 8.77
Chloroethane	ND< 8.77
Chloromethane	ND< 8.77
2-Chloroethyl vinyl ether	ND< 8.77
Chloroform	ND< 8.77
Dibromochloromethane	ND< 8.77
1,1-Dichloroethane	ND< 8.77
1,2-Dichloroethane	ND< 8.77
1,1-Dichloroethene	ND< 8.77
cis-1,2-Dichloroethene	ND< 8.77
trans-1,2-Dichloroethene	ND< 8.77
1,2-Dichloropropane	ND< 8.77
cis-1,3-Dichloropropene	ND< 8.77
trans-1,3-Dichloropropene	ND< 8.77
Methylene chloride	ND< 21.9
1,1,2,2-Tetrachloroethane	ND< 8.77
Tetrachloroethene	ND< 8.77
1,1,1-Trichloroethane	ND< 8.77
1,1,2-Trichloroethane	ND< 8.77
Trichloroethene	ND< 8.77
Trichlorofluoromethane	ND< 8.77
Vinyl Chloride	ND< 8.77

Aromatics	Results in ug / Kg
Benzene	ND< 8.77
Chlorobenzene	ND< 8.77
Ethylbenzene	ND< 8.77
Toluene	ND< 8.77
m,p - Xylene	ND< 8.77
o - Xylene	ND< 8.77
Styrene	ND< 8.77
1,2-Dichlorobenzene	ND< 8.77
1,3-Dichlorobenzene	ND< 8.77
1,4-Dichlorobenzene	ND< 8.77

Ketones	Results in ug / Kg
Acetone	ND< 43.8
2-Butanone	ND< 21.9
2-Hexanone	ND< 21.9
4-Methyl-2-pentanone	ND< 21.9

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 21.9
Vinyl acetate	ND< 21.9

ELAP Number 10958 Method: EPA 8260B Data File: 60888.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021885V1.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS EBS, Parcel 1	**Lab Project Number:**	02-1885
		Lab Sample Number:	6958
Client Job Number:	13124-09		
Field Location:	B247-GP-01B	**Date Sampled:**	07/22/2002
Field ID Number:	N/A	**Date Received:**	07/26/2002
Sample Type:	Soil	**Date Analyzed:**	08/02/2002

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 8.11
Bromomethane	ND< 8.11
Bromoform	ND< 8.11
Carbon tetrachloride	ND< 8.11
Chloroethane	ND< 8.11
Chloromethane	ND< 8.11
2-Chloroethyl vinyl ether	ND< 8.11
Chloroform	ND< 8.11
Dibromochloromethane	ND< 8.11
1,1-Dichloroethane	ND< 8.11
1,2-Dichloroethane	ND< 8.11
1,1-Dichloroethene	ND< 8.11
cis-1,2-Dichloroethene	ND< 8.11
trans-1,2-Dichloroethene	ND< 8.11
1,2-Dichloropropane	ND< 8.11
cis-1,3-Dichloropropene	ND< 8.11
trans-1,3-Dichloropropene	ND< 8.11
Methylene chloride	ND< 20.3
1,1,2,2-Tetrachloroethane	ND< 8.11
Tetrachloroethene	ND< 8.11
1,1,1-Trichloroethane	ND< 8.11
1,1,2-Trichloroethane	ND< 8.11
Trichloroethene	ND< 8.11
Trichlorofluoromethane	ND< 8.11
Vinyl Chloride	ND< 8.11

Aromatics	Results in ug / Kg
Benzene	ND< 8.11
Chlorobenzene	ND< 8.11
Ethylbenzene	ND< 8.11
Toluene	ND< 8.11
m,p - Xylene	ND< 8.11
o - Xylene	ND< 8.11
Styrene	ND< 8.11
1,2-Dichlorobenzene	ND< 8.11
1,3-Dichlorobenzene	ND< 8.11
1,4-Dichlorobenzene	ND< 8.11

Ketones	Results in ug / Kg
Acetone	ND< 40.6
2-Butanone	ND< 20.3
2-Hexanone	ND< 20.3
4-Methyl-2-pentanone	ND< 20.3

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 20.3
Vinyl acetate	ND< 20.3

ELAP Number 10958 Method: EPA 8260B Data File: 60882.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: For: Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021885V2.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS EBS, Parcel 1	**Lab Project Number:**	02-1885
		Lab Sample Number:	6957
Client Job Number:	13124-09		
Field Location:	B247-GP-01A	**Date Sampled:**	07/22/2002
Field ID Number:	N/A	**Date Received:**	07/26/2002
Sample Type:	Soil	**Date Analyzed:**	08/01/2002

Base / Neutrals	Results in ug / Kg	Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 315	Dibenz (a,h) anthracene	ND< 315
Anthracene	ND< 315	Fluoranthene	ND< 315
Benzo (a) anthracene	ND< 315	Fluorene	ND< 315
Benzo (a) pyrene	ND< 315	Indeno (1,2,3-cd) pyrene	ND< 315
Benzo (b) fluoranthene	ND< 315	Naphthalene	ND< 315
Benzo (g,h,i) perylene	ND< 315	Phenanthrene	ND< 315
Benzo (k) fluoranthene	ND< 315	Pyrene	ND< 315
Chrysene	ND< 315	Acenapthylene	ND< 315
Diethyl phthalate	ND< 315	1,2-Dichlorobenzene	ND< 315
Dimethyl phthalate	ND< 789	1,3-Dichlorobenzene	ND< 315
Butylbenzylphthalate	ND< 315	1,4-Dichlorobenzene	ND< 315
Di-n-butyl phthalate	ND< 315	1,2,4-Trichlorobenzene	ND< 315
Di-n-octylphthalate	ND< 315	Nitrobenzene	ND< 315
Bis (2-ethylhexyl) phthalate	ND< 315	2,4-Dinitrotoluene	ND< 315
2-Chloronaphthalene	ND< 315	2,6-Dinitrotoluene	ND< 315
Hexachlorobenzene	ND< 315	Bis (2-chloroethyl) ether	ND< 315
Hexachloroethane	ND< 315	Bis (2-chloroisopropyl) ether	ND< 315
Hexachlorocyclopentadiene	ND< 315	Bis (2-chloroethoxy) methane	ND< 315
Hexachlorobutadiene	ND< 315	4-Bromophenyl phenyl ether	ND< 315
N-Nitroso-di-n-propylamine	ND< 315	4-Chlorophenyl phenyl ether	ND< 315
N-Nitrosodiphenylamine	ND< 315	Benzidine	ND< 789
N-Nitrosodimethylamine	ND< 315	3,3'-Dichlorobenzidine	ND< 315
Isophorone	ND< 315	4-Chloroaniline	ND< 315
Benzyl alcohol	ND< 789	2-Nitroaniline	ND< 789
Dibenzofuran	ND< 315	3-Nitroaniline	ND< 789
2-Methylnapthalene	ND< 315	4-Nitroaniline	ND< 789

Acids	Results in ug / Kg	Acids	Results in ug / Kg
Phenol	ND< 315	2-Methylphenol	ND< 315
2-Chlorophenol	ND< 315	4-Methylphenol	ND< 315
2,4-Dichlorophenol	ND< 315	2,4-Dimethylphenol	ND< 315
2,6-Dichlorophenol	ND< 315	2-Nitrophenol	ND< 315
2,4,5-Trichlorophenol	ND< 789	4-Nitrophenol	ND< 789
2,4,6-Trichlorophenol	ND< 315	2,4-Dinitrophenol	ND< 315
Pentachlorophenol	ND< 789	4,6-Dinitro-2-methylphenol	ND< 789
4-Chloro-3-methylphenol	ND< 315	Benzoic acid	ND< 789

ELAP Number 10958 Method: EPA 8270D Data File: 5066.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021885S2.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS EBS, Parcel 1	**Lab Project Number:**	02-1885
		Lab Sample Number:	6958
Client Job Number:	13124-09		
Field Location:	B247-GP-01B	**Date Sampled:**	07/22/2002
Field ID Number:	N/A	**Date Received:**	07/26/2002
Sample Type:	Soil	**Date Analyzed:**	08/01/2002

Base / Neutrals	Results in ug / Kg	Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 301	Dibenz (a,h) anthracene	ND< 301
Anthracene	ND< 301	Fluoranthene	ND< 301
Benzo (a) anthracene	ND< 301	Fluorene	ND< 301
Benzo (a) pyrene	ND< 301	Indeno (1,2,3-cd) pyrene	ND< 301
Benzo (b) fluoranthene	ND< 301	Naphthalene	ND< 301
Benzo (g,h,i) perylene	ND< 301	Phenanthrene	ND< 301
Benzo (k) fluoranthene	ND< 301	Pyrene	ND< 301
Chrysene	ND< 301	Acenapthylene	ND< 301
Diethyl phthalate	ND< 301	1,2-Dichlorobenzene	ND< 301
Dimethyl phthalate	ND< 752	1,3-Dichlorobenzene	ND< 301
Butylbenzylphthalate	ND< 301	1,4-Dichlorobenzene	ND< 301
Di-n-butyl phthalate	ND< 301	1,2,4-Trichlorobenzene	ND< 301
Di-n-octylphthalate	ND< 301	Nitrobenzene	ND< 301
Bis (2-ethylhexyl) phthalate	ND< 301	2,4-Dinitrotoluene	ND< 301
2-Chloronaphthalene	ND< 301	2,6-Dinitrotoluene	ND< 301
Hexachlorobenzene	ND< 301	Bis (2-chloroethyl) ether	ND< 301
Hexachloroethane	ND< 301	Bis (2-chloroisopropyl) ether	ND< 301
Hexachlorocyclopentadiene	ND< 301	Bis (2-chloroethoxy) methane	ND< 301
Hexachlorobutadiene	ND< 301	4-Bromophenyl phenyl ether	ND< 301
N-Nitroso-di-n-propylamine	ND< 301	4-Chlorophenyl phenyl ether	ND< 301
N-Nitrosodiphenylamine	ND< 301	Benzidine	ND< 752
N-Nitrosodimethylamine	ND< 301	3,3'-Dichlorobenzidine	ND< 301
Isophorone	ND< 301	4-Chloroaniline	ND< 301
Benzyl alcohol	ND< 752	2-Nitroaniline	ND< 752
Dibenzofuran	ND< 301	3-Nitroaniline	ND< 752
2-Methylnapthalene	ND< 301	4-Nitroaniline	ND< 752

Acids	Results in ug / Kg	Acids	Results in ug / Kg
Phenol	ND< 301	2-Methylphenol	ND< 301
2-Chlorophenol	ND< 301	4-Methylphenol	ND< 301
2,4-Dichlorophenol	ND< 301	2,4-Dimethylphenol	ND< 301
2,6-Dichlorophenol	ND< 301	2-Nitrophenol	ND< 301
2,4,5-Trichlorophenol	ND< 752	4-Nitrophenol	ND< 752
2,4,6-Trichlorophenol	ND< 301	2,4-Dinitrophenol	ND< 301
Pentachlorophenol	ND< 752	4,6-Dinitro-2-methylphenol	ND< 752
4-Chloro-3-methylphenol	ND< 301	Benzoic acid	ND< 752

ELAP Number 10958 Method: EPA 8270D Data File: 5067.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021885S3.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PHC Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS EBS, Parcel 1	**Lab Project Number:**	02-1885
		Lab Sample Number:	6954
Client Job Number:	13124-09		
Field Location:	B240-GP-01A	**Date Sampled:**	07/22/2002
Field ID Number:	N/A	**Date Received:**	07/26/2002
Sample Type:	Soil	**Date Analyzed:**	08/01/2002

PHC Classification	Results in ug / Kg
Heavy Weight PHC as: Lube Oil	553,000

ELAP Number 10958 Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon

Signature: Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 021885P6.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PHC Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS EBS, Parcel 1	**Lab Project Number:**	02-1885
		Lab Sample Number:	6955
Client Job Number:	13124-09		
Field Location:	B240-GP-01B	**Date Sampled:**	07/22/2002
Field ID Number:	N/A	**Date Received:**	07/26/2002
Sample Type:	Soil	**Date Analyzed:**	08/01/2002

PHC Classification	Results in ug / Kg
Heavy Weight PHC as: Lube Oil	528,000

ELAP Number 10958 Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021885P7.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PHC Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS EBS, Parcel 1	**Lab Project Number:**	02-1885
		Lab Sample Number:	6956
Client Job Number:	13124-09		
Field Location:	B240-GP-01C	**Date Sampled:**	07/22/2002
Field ID Number:	N/A	**Date Received:**	07/26/2002
Sample Type:	Soil	**Date Analyzed:**	08/01/2002

PHC Classification	Results in ug / Kg
Medium Weight PHC as: Diesel Fuel	137,000
Heavy Weight PHC as: Lube Oil	1,690,000

ELAP Number 10958 Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon

Signature: For: Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021885p8.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS EBS, Parcel 1	**Lab Project Number:**	02-1885
		Lab Sample Number:	6954
Client Job Number:	13124-09		
Field Location:	B240-GP-01A	**Date Sampled:**	07/22/2002
Field ID Number:	N/A	**Date Received:**	07/26/2002
Sample Type:	Soil	**Date Analyzed:**	08/01/2002

PCB Identification	Results in mg / Kg
Aroclor 1016	ND< 0.344
Aroclor 1221	ND< 0.344
Aroclor 1232	ND< 0.344
Aroclor 1242	ND< 0.344
Aroclor 1248	ND< 0.344
Aroclor 1254	ND< 0.344
Aroclor 1260	ND< 0.344

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature: Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021885P1.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS EBS, Parcel 1	**Lab Project Number:**	02-1885
		Lab Sample Number:	6955
Client Job Number:	13124-09		
Field Location:	B240-GP-01B	**Date Sampled:**	07/22/2002
Field ID Number:	N/A	**Date Received:**	07/26/2002
Sample Type:	Soil	**Date Analyzed:**	08/01/2002

PCB Identification	Results in mg / Kg
Aroclor 1016	ND< 0.405
Aroclor 1221	ND< 0.405
Aroclor 1232	ND< 0.405
Aroclor 1242	ND< 0.405
Aroclor 1248	ND< 0.405
Aroclor 1254	ND< 0.405
Aroclor 1260	ND< 0.405

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature: For: Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021885P2.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Soils/Solids/Sludges

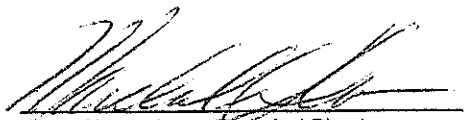
Client: Lu Engineers

Client Job Site:	RRS EBS, Parcel 1	**Lab Project Number:**	02-1885
		Lab Sample Number:	6956
Client Job Number:	13124-09		
Field Location:	B240-GP-01C	**Date Sampled:**	07/22/2002
Field ID Number:	N/A	**Date Received:**	07/26/2002
Sample Type:	Soil	**Date Analyzed:**	08/01/2002

PCB Identification	Results in mg / Kg
Aroclor 1016	ND< 0.452
Aroclor 1221	ND< 0.452
Aroclor 1232	ND< 0.452
Aroclor 1242	ND< 0.452
Aroclor 1248	ND< 0.452
Aroclor 1254	ND< 0.452
Aroclor 1260	ND< 0.452

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature: 
For: Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 021885P3.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS EBS, Parcel 1	**Lab Project Number:**	02-1885
		Lab Sample Number:	6956
Client Job Number:	13124-09		
Field Location:	B240-GP-01C	**Date Sampled:**	07/22/2002
Field ID Number:	N/A	**Date Received:**	07/26/2002
Sample Type:	Soil	**Date Analyzed:**	08/01/2002

Base / Neutrals	Results in ug / Kg	Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 340	Dibenz (a,h) anthracene	ND< 340
Anthracene	ND< 340	Fluoranthene	ND< 340
Benzo (a) anthracene	ND< 340	Fluorene	ND< 340
Benzo (a) pyrene	ND< 340	Indeno (1,2,3-cd) pyrene	ND< 340
Benzo (b) fluoranthene	ND< 340	Naphthalene	ND< 340
Benzo (g,h,i) perylene	ND< 340	Phenanthrene	ND< 340
Benzo (k) fluoranthene	ND< 340	Pyrene	ND< 340
Chrysene	ND< 340	Acenapthylene	ND< 340
Diethyl phthalate	ND< 340	1,2-Dichlorobenzene	ND< 340
Dimethyl phthalate	ND< 851	1,3-Dichlorobenzene	ND< 340
Butylbenzylphthalate	ND< 340	1,4-Dichlorobenzene	ND< 340
Di-n-butyl phthalate	ND< 340	1,2,4-Trichlorobenzene	ND< 340
Di-n-octylphthalate	ND< 340	Nitrobenzene	ND< 340
Bis (2-ethylhexyl) phthalate	ND< 340	2,4-Dinitrotoluene	ND< 340
2-Chloronaphthalene	ND< 340	2,6-Dinitrotoluene	ND< 340
Hexachlorobenzene	ND< 340	Bis (2-chloroethyl) ether	ND< 340
Hexachloroethane	ND< 340	Bis (2-chloroisopropyl) ether	ND< 340
Hexachlorocyclopentadiene	ND< 340	Bis (2-chloroethoxy) methane	ND< 340
Hexachlorobutadiene	ND< 340	4-Bromophenyl phenyl ether	ND< 340
N-Nitroso-di-n-propylamine	ND< 340	4-Chlorophenyl phenyl ether	ND< 340
N-Nitrosodiphenylamine	ND< 340	Benzidine	ND< 851
N-Nitrosodimethylamine	ND< 340	3,3'-Dichlorobenzidine	ND< 340
Isophorone	ND< 340	4-Chloroaniline	ND< 340
Benzyl alcohol	ND< 851	2-Nitroaniline	ND< 851
Dibenzofuran	ND< 340	3-Nitroaniline	ND< 851
2-Methylnapthalene	ND< 340	4-Nitroaniline	ND< 851

Acids	Results in ug / Kg	Acids	Results in ug / Kg
Phenol	ND< 340	2-Methylphenol	ND< 340
2-Chlorophenol	ND< 340	4-Methylphenol	ND< 340
2,4-Dichlorophenol	ND< 340	2,4-Dimethylphenol	ND< 340
2,6-Dichlorophenol	ND< 340	2-Nitrophenol	ND< 340
2,4,5-Trichlorophenol	ND< 851	4-Nitrophenol	ND< 851
2,4,6-Trichlorophenol	ND< 340	2,4-Dinitrophenol	ND< 340
Pentachlorophenol	ND< 851	4,6-Dinitro-2-methylphenol	ND< 851
4-Chloro-3-methylphenol	ND< 340	Benzoic acid	ND< 851

ELAP Number 10958 Method: EPA 8270D Data File: 5065.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
For: Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 021885S1.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997
FAX: (716) 647-3311

C N OF CUSTODY

REPORT TO:	INVOICE TO:	
COMPANY: L. Engineers	COMPANY:	LAB PROJECT #: / CLIENT PROJECT #: 13124-09
ADDRESS: 2233 Penfield Rd.	ADDRESS: SAME	
CITY: Penfield STATE: NY ZIP: 14526	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)
PHONE: 377-1450 FAX:	PHONE: FAX:	STD / OTHER
PROJECT NAME/SITE NAME: RRS SBS, Parcel 1	ATTN: Gr. Anders	1 [ ] 2 [ ] 3 [ ] 5 [X] [ ]
	ATTN:	
	COMMENTS: 0	

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	PCB's	TPH	TCL VOCs	TCL SVOCs	RCRA Metals	pH	CN (Total)				REMARKS	PARADIGM LAB SAMPLE NUMBER
1	7/22/02	12:30		X	B249-GP-01A	Soil	1	X	X										
2				X	B249-GP-01B			X	X										
3				X	B249-GP-01C			X	X		X								
4																			
5				X	B247-GP-01A			X		X	X	X	X	X					
6				X	B247-GP-01B			X		X	X	X	X	X					
7																			
8																			
9																			
10																			

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: [ ] PRESERVATIONS: [ ] HOLDING TIME: [ ] TEMPERATURE: [ ]

Sampled By: [signature]	Date/Time: 7/22/02	Relinquished By: [signature]	Date/Time: 7/23/02 12:30
Relinquished By:	Date/Time:	Received By: [signature]	Date/Time: 7/23/02 12:30
Received By:	Date/Time:	Received @ Lab By:	Date/Time:

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: RRS - Parcell

Client Job No.: 13124-09

Field Location: B240-DW-01
Field ID No.: N/A

Lab Project No.: 02-2083
Lab Sample No.: 7527

Sample Type: Soil

Date Sampled: 08/12/2002
Date Received: 08/16/2002

Laboratory Report for Solid Waste Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Arsenic	08/26/2002	SW846 6010	4.61
Barium	08/26/2002	SW846 6010	37.4
Cadmium	08/26/2002	SW846 6010	0.933
Chromium	08/26/2002	SW846 6010	10.3
Lead	08/26/2002	SW846 6010	8.88
Mercury	08/21/2002	SW846 7471	<0.082
Selenium	08/26/2002	SW846 6010	<0.495
Silver	08/26/2002	SW846 6010	<0.990

ELAP ID No.:10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID:022083

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS - Parcel 1	**Lab Project Number:**	02-2083
		Lab Sample Number:	7527
Client Job Number:	13124-09		
Field Location:	B240-DW--01	**Date Sampled:**	08/12/2002
Field ID Number:	N/A	**Date Received:**	08/16/2002
Sample Type:	Soil	**Date Analyzed:**	08/27/2002

PCB Identification	Results in mg / Kg
Aroclor 1016	ND< 0.563
Aroclor 1221	ND< 0.563
Aroclor 1232	ND< 0.563
Aroclor 1242	ND< 0.563
Aroclor 1248	ND< 0.563
Aroclor 1254	ND< 0.563
Aroclor 1260	ND< 0.563

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 022083P1.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: LU Engineers

Client Job Site:	RRS - Parcel 1	**Lab Project Number:**	02-2083
		Lab Sample Number:	7527
Client Job Number:	13124-09		
Field Location:	B240-DW-01	**Date Sampled:**	08/12/2002
Field ID Number:	N/A	**Date Received:**	08/16/2002
Sample Type:	Soil	**Date Analyzed:**	08/28/2002

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 7.64
Bromomethane	ND< 7.64
Bromoform	ND< 7.64
Carbon tetrachloride	ND< 7.64
Chloroethane	ND< 7.64
Chloromethane	ND< 7.64
2-Chloroethyl vinyl ether	ND< 7.64
Chloroform	ND< 7.64
Dibromochloromethane	ND< 7.64
1,1-Dichloroethane	ND< 7.64
1,2-Dichloroethane	ND< 7.64
1,1-Dichloroethene	ND< 7.64
cis-1,2-Dichloroethene	ND< 7.64
trans-1,2-Dichloroethene	ND< 7.64
1,2-Dichloropropane	ND< 7.64
cis-1,3-Dichloropropene	ND< 7.64
trans-1,3-Dichloropropene	ND< 7.64
Methylene chloride	ND< 19.1
1,1,2,2-Tetrachloroethane	ND< 7.64
Tetrachloroethene	ND< 7.64
1,1,1-Trichloroethane	ND< 7.64
1,1,2-Trichloroethane	ND< 7.64
Trichloroethene	ND< 7.64
Trichlorofluoromethane	ND< 7.64
Vinyl Chloride	ND< 7.64

Aromatics	Results in ug / Kg
Benzene	ND< 7.64
Chlorobenzene	ND< 7.64
Ethylbenzene	ND< 7.64
Toluene	ND< 7.64
m,p - Xylene	ND< 7.64
o - Xylene	ND< 7.64
Styrene	ND< 7.64
1,2-Dichlorobenzene	ND< 7.64
1,3-Dichlorobenzene	ND< 7.64
1,4-Dichlorobenzene	ND< 7.64

Ketones	Results in ug / Kg
Acetone	ND< 38.2
2-Butanone	ND< 19.1
2-Hexanone	ND< 19.1
4-Methyl-2-pentanone	ND< 19.1

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 19.1
Vinyl acetate	ND< 19.1

ELAP Number 10958 Method: EPA 8260B Data File: 61395.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Sample run on 16th day of holding time.

Signature: _____
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 022083V1.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: LU Engineers

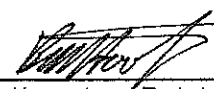
Client Job Site:	RRS - Parcel 1	**Lab Project Number:**	02-2083
		Lab Sample Number:	7527
Client Job Number:	13124-09		
Field Location:	B240-DW-01	**Date Sampled:**	08/12/2002
Field ID Number:	N/A	**Date Received:**	08/16/2002
Sample Type:	Soil	**Date Analyzed:**	08/30/2002

Base / Neutrals	Results in ug / Kg	Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 338	Dibenz (a,h) anthracene	ND< 338
Anthracene	ND< 338	Fluoranthene	1,030
Benzo (a) anthracene	566	Fluorene	ND< 338
Benzo (a) pyrene	550	Indeno (1,2,3-cd) pyrene	ND< 338
Benzo (b) fluoranthene	664	Naphthalene	ND< 338
Benzo (g,h,i) perylene	ND< 338	Phenanthrene	504
Benzo (k) fluoranthene	ND< 338	Pyrene	1,060
Chrysene	638	Acenapthylene	ND< 338
Diethyl phthalate	ND< 338	1,2-Dichlorobenzene	ND< 338
Dimethyl phthalate	ND< 844	1,3-Dichlorobenzene	ND< 338
Butylbenzylphthalate	ND< 338	1,4-Dichlorobenzene	ND< 338
Di-n-butyl phthalate	ND< 338	1,2,4-Trichlorobenzene	ND< 338
Di-n-octylphthalate	ND< 338	Nitrobenzene	ND< 338
Bis (2-ethylhexyl) phthalate	ND< 338	2,4-Dinitrotoluene	ND< 338
2-Chloronaphthalene	ND< 338	2,6-Dinitrotoluene	ND< 338
Hexachlorobenzene	ND< 338	Bis (2-chloroethyl) ether	ND< 338
Hexachloroethane	ND< 338	Bis (2-chloroisopropyl) ether	ND< 338
Hexachlorocyclopentadiene	ND< 338	Bis (2-chloroethoxy) methane	ND< 338
Hexachlorobutadiene	ND< 338	4-Bromophenyl phenyl ether	ND< 338
N-Nitroso-di-n-propylamine	ND< 338	4-Chlorophenyl phenyl ether	ND< 338
N-Nitrosodiphenylamine	ND< 338	Benzidine	ND< 844
N-Nitrosodimethylamine	ND< 338	3,3'-Dichlorobenzidine	ND< 338
Isophorone	ND< 338	4-Chloroaniline	ND< 338
Benzyl alcohol	ND< 844	2-Nitroaniline	ND< 844
Dibenzofuran	ND< 338	3-Nitroaniline	ND< 844
2-Methylnapthalene	ND< 338	4-Nitroaniline	ND< 844

Acids	Results in ug / Kg	Acids	Results in ug / Kg
Phenol	ND< 338	2-Methylphenol	ND< 338
2-Chlorophenol	ND< 338	4-Methylphenol	ND< 338
2,4-Dichlorophenol	ND< 338	2,4-Dimethylphenol	ND< 338
2,6-Dichlorophenol	ND< 338	2-Nitrophenol	ND< 338
2,4,5-Trichlorophenol	ND< 844	4-Nitrophenol	ND< 844
2,4,6-Trichlorophenol	ND< 338	2,4-Dinitrophenol	ND< 338
Pentachlorophenol	ND< 844	4,6-Dinitro-2-methylphenol	ND< 844
4-Chloro-3-methylphenol	ND< 338	Benzoic acid	ND< 844

ELAP Number 10958 Method: EPA 8270D Data File: 5462.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: 

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 022083S1.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:		
COMPANY:	COMPANY:	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:	ADDRESS:		
CITY: STATE: ZIP:	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:	PHONE: FAX:		STD / OTHER
PROJECT NAME/SITE NAME:	ATTN:	ATTN:	1 2 3 5
	COMMENTS:		

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS										REMARKS	PARADIGM LAB SAMPLE NUMBER
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐

Sampled By:	Date/Time:	Relinquished By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received By:	Date/Time:	Received @ Lab By:	Date/Time:

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	RRS - B240 Parcel 1	**Lab Project Number:**	02-2344
		Lab Sample Number:	8440
Client Job Number:	13124		
Field Location:	B240-GP-02	**Date Sampled:**	09/12/2002
Field ID Number:	N/A	**Date Received:**	09/16/2002
Sample Type:	Soil	**Date Analyzed:**	09/18/2002

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 7.32
Bromomethane	ND< 7.32
Bromoform	ND< 7.32
Carbon tetrachloride	ND< 7.32
Chloroethane	ND< 7.32
Chloromethane	ND< 7.32
2-Chloroethyl vinyl ether	ND< 7.32
Chloroform	ND< 7.32
Dibromochloromethane	ND< 7.32
1,1-Dichloroethane	ND< 7.32
1,2-Dichloroethane	ND< 7.32
1,1-Dichloroethene	ND< 7.32
cis-1,2-Dichloroethene	ND< 7.32
trans-1,2-Dichloroethene	ND< 7.32
1,2-Dichloropropane	ND< 7.32
cis-1,3-Dichloropropene	ND< 7.32
trans-1,3-Dichloropropene	ND< 7.32
Methylene chloride	ND< 18.3
1,1,2,2-Tetrachloroethane	ND< 7.32
Tetrachloroethene	ND< 7.32
1,1,1-Trichloroethane	ND< 7.32
1,1,2-Trichloroethane	ND< 7.32
Trichloroethene	ND< 7.32
Trichlorofluoromethane	ND< 7.32
Vinyl Chloride	ND< 7.32

Aromatics	Results in ug / Kg
Benzene	ND< 7.32
Chlorobenzene	ND< 7.32
Ethylbenzene	ND< 7.32
Toluene	ND< 7.32
m,p - Xylene	ND< 7.32
o - Xylene	ND< 7.32
Styrene	ND< 7.32
1,2-Dichlorobenzene	ND< 7.32
1,3-Dichlorobenzene	ND< 7.32
1,4-Dichlorobenzene	ND< 7.32

Ketones	Results in ug / Kg
Acetone	ND< 36.6
2-Butanone	ND< 18.3
2-Hexanone	ND< 18.3
4-Methyl-2-pentanone	ND< 18.3

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 18.3
Vinyl acetate	ND< 18.3

ELAP Number 10958 Method: EPA 8260B Data File: 61739.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 022344V1.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:		
COMPANY:	COMPANY:	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:	ADDRESS:		
CITY: STATE: ZIP:	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:	PHONE: FAX:	STD	OTHER
PROJECT NAME/SITE NAME:	ATTN:	☐ 1 ☐ 2 ☐ 3 ☒ 5	☐
COMMENTS:			

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS										REMARKS	PARADIGM LAB SAMPLE NUMBER
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐

Sampled By:	Date/Time:	Relinquished By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received By:	Date/Time:	Received @ Lab By:	Date/Time:

Total Cost:

P.I.F.

APPENDIX G5

CORRECTIVE ACTION STATUS – JANUARY 2004

ENVIRONMENTAL BASELINE SURVEY
PARCEL 1, ROME RESEARCH SITE
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

LU ENGINEERS
Civil and Environmental

MEMORANDUM

January 9, 2004

To: Mike Bamberger, AFRL RRS/IFOCV
From: Greg Andrus
Re: RRS Griffiss Properties
Parcel 1 EBS Status Update
13124-10

This memorandum is intended as an interim update to the environmental baseline survey (EBS) work currently being completed for Parcel 1. This project is a portion of the EBS currently in progress for RRS's properties located at the Griffiss Business and Technology Park.

Background

Lu Engineers initiated the final phase of EBS corrective action work at Parcel 1 on October 27 2003. On-site work at Parcel 1 was completed on October 31, 2003. The intent of this project was to respond to recommendations made as part of preceding EBS phases. The findings of previous Parcel 1 corrective action work are summarized in a memorandum dated March 17, 2003 from Lu Engineers to RRS. The findings of the most recent Parcel 1 Phase II EBS work were submitted to RRS in a memorandum dated February 20, 2003.

Lu Engineers' EBS corrective action work at Parcel 1 during 2003 was focused on two of the 19 EBS areas of concern (AOCs) defined during previous Phase I and II tasks of the EBS for this property. Additional sampling of wastes was required to appropriately characterize the wastes produced during cleanup of these AOCs. The location of each subject AOC is indicated on Figure 1 provided as Attachment 1. The AOCs remediated as part of the current portion of the Parcel 1 EBS include the following:

AOC-B240-01, Chiller Solution Tanks

Research, sampling and testing conducted on this AOC indicated the presence of hazardous levels of solvents and heavy metals in residual liquids and solid residues requiring cleanup and disposal. During the process of removing the three primary components of the abandoned dehumidifier system associated with this AOC, an additional, self-contained dehumidifier unit was discovered which also required corrective action.

AOC-B240-09, B-240 Dry Wells

Previous investigations associated with this AOC have included extensive research, detailed inspections, field screening for volatile organic compounds (VOCs), and sampling and testing of roof core materials, sediment and subsurface soils. Findings generally indicated that no regulated levels of contaminants were present. Elevated levels of RCRA metals contamination were identified in sediment in a floor drain and surrounding concrete floor located in the open shaftway situated at the east end of B-240.

Subsurface sampling was conducted in 2002 to evaluate soils at the location of the drywell documented on as-built plans as receiving drainage from the shaftway floor drain. No drywell was observed during excavation at this location and no regulated

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levels of subsurface contamination were identified by field screening or laboratory soils analysis. Therefore, the floor drain and surrounding concrete floor within the shaftway were determined to be the only portion of AOC-B240-09 requiring corrective action to attain regulatory compliance.

Description of Field Activities

All personnel involved with the decommissioning and/or field supervision of work had undergone training as specified by 29 CFR Part 1910 for hazardous waste site operations prior to the time of site work. A project-specific health and safety plan was also developed and provided to all personnel prior to commencement of site work. Field work commenced on October 27, 2003 and continued through October 31, 2003. Lu Engineers personnel were assisted throughout the corrective action process by Mr. Hank Kleaka, Building Manager. Mr. Kleaka provided support in the process of gaining access to work areas and storage and transfer of equipment, personnel and materials.

Representative photographs of the site work are provided in Attachment 2.

AOC-B240-01, Chiller Solution Tanks

The area surrounding the dehumidifier unit to be removed includes numerous ducts encased in asbestos-containing insulation. Several ducts were attached directly to the unit itself. In order to assure that no uncontrolled disturbance of asbestos occurred, portions of the ducts adjoining the unit were rendered free of asbestos by a qualified and appropriately licensed and certified subcontractor, AAA Environmental Services, Incorporated. Remaining friable asbestos containing materials were encapsulated with "wet wrap", a standard industry method approved by the New York State Department of Labor and the Occupational Safety and Health Administration. Although not required for this "minor" scale project, Lu Engineers conducted air monitoring before, during and after abatement had been completed. Lu Engineer's project monitoring report is provided as Attachment 3.

Asbestos air sampling was conducted by Lu Engineers during the abatement process. Analytical results did not indicate release of fibers from the work area. In addition to sampling within the work areas and ventilation exhaust, Lu Engineers also conducted limited sampling for airborne asbestos within occupied areas of B-240. At RRS' request, one air sample was taken in the main first floor hallway of B-240 during the asbestos abatement process. This sample was relinquished to an accredited laboratory for analysis by transmission electron microscopy, the most definitive asbestos analysis possible. No detectable levels of airborne asbestos were observed. Asbestos air monitoring analytical results and project monitoring logs are presented in the asbestos project monitoring report located in Attachment 3.

Once the asbestos abatement process was completed and air sampling indicated that no airborne asbestos was present, the process of incrementally disassembling the dehumidifier system was initiated. Ductwork, tanks, motors, internal and external piping, and steel supporting framework were dismantled manually by Lu Engineers' industrial remediation subcontractor Sentinel Technologies, Incorporated, using power tools including circular and reciprocating saws, drills and pumps. Limited acetylene torch cutting was also conducted. Where remaining ductwork or piping had been supported by the dehumidifier unit, steel support jacks were permanently

installed and bolted in place to avoid potential future damage to insulation or other appurtenances due to settling.

Once removed, portions of the unit were transported to the eastern end of the B-240 basement. The open shaftway at this location was lined with two layers of plastic sheeting and used as a decontamination room for the contaminated interior surfaces of the dehumidifier unit. All system components were thoroughly power-washed and rendered free of chromium residues prior to being manually removed from the work area. Water was collected using small submersible pumps and stored in UN-approved 55-gallon steel drums for eventual transportation and disposal. Composite samples of wastewater produced during this process were relinquished to an accredited laboratory for analysis to facilitate waste profiling. The laboratory analytical report for this sampling is provided as Attachment 4. As indicated in the laboratory report, the wastewater and solid residues did not include hazardous levels of regulated contaminants. Disposal and transportation as hazardous waste were therefore, not required.

The B-240 elevator was used for lifting the majority of the scrap steel up to the ground level of the building for transfer into a trailer. The trailer was used to haul the scrap to DWR Recycling, Incorporated, located in Rome, New York. A total of approximately 2,00 pounds of scrap steel was taken to the recycling facility.

The following wastes were generated during the corrective action work conducted on B240-AOC-01:

- A total of two drums containing non-hazardous water contaminated with low levels of VOCs, PCBs and RCRA metals (see "KATH-L-01" in Attachment 4).
- One drum containing non-hazardous cleanup waste solids contaminated with low levels of RCRA metals (see "KATH-S-01" in Attachment 4).
- 18 bags of asbestos waste material (including PPE, plastic sheeting and related materials).

Asbestos containing wastes were immediately transported off site to High Acres Landfill by AAA Environmental, an appropriately licensed transporter, upon completion of the asbestos abatement process on October 29, 2003.

Non-asbestos containing wastes were temporarily stored at the east end of the B-240 basement, adjacent to the elevator.

On January 28, 2004 these wastes were transported by Hazmat Environmental Group, Incorporated to CWM Chemical Services, LLC located in Model City, New York. A copy of the waste disposal documentation is included as Attachment 5.

AOC-B240-09, B-240 Dry Wells

1.2 AOC-B240-09, B-240 Dry Wells

The initial step in the cleanup of this AOC was the removal of liquids from the shaftway by means of a compressor-driven drum vacuum system. Attempts were made to keep the turbidity of the water to a minimum to facilitate disposal as uncontaminated waste. However, sediment and other materials from the bottom of the shaftway could not be

effectively separated from the liquid. The cleaning process was completed by power washing the floor of the shaftway. All waste water generated by the cleaning process was containerized as appropriate. Approximately 50 gallons of turbid water containing less than 5 percent solids were containerized in 2 UN-approved 55-gallon drums.

The second step of corrective action work associated with this AOC involved manual removal of sediments, leaves and debris from the shaftway floor. Sediments and greasy residue on the shaftway floor could not be effectively segregated from presumably uncontaminated materials. Sediments containing a small percentage of water were removed from the floor drain by vacuum methods. The floor drain was unplugged during this process by both vacuum methods and by means of an electric rotary plumbing snake. All solid waste and debris was containerized in a single UN-approved 55-gallon drum.

The following wastes were generated during the corrective action work conducted on B240-AOC-01:

- A total of one drum containing non-hazardous water contaminated with low levels of VOCs, PCBs and RCRA metals (see "SHAFT-L-01" in Attachment 4).
- One drum containing non-hazardous cleanup waste solids contaminated with low levels of RCRA metals and PCBs (see "SHAFT-S-01" in Attachment 4).

Facility Matrix

The following table provides a summary of the EBS status for each of the AOCs identified within Parcel 1:

AOC / BLDG.	AOC NAME	CURRENT EBS STATUS
Building 240		
AOC-B240-01	Chiller Solution Tanks	EBS Category 4
AOC-B240-02	Basement Floor Drains and Sumps	EBS Category 4
AOC-B240-03	B-240 Elevator Shaft	EBS Category 4
AOC-B240-04	Oil Stained Areas in the Basement	EBS Category 4
AOC-B240-05	Caged Storage in Basement	EBS Category 1
AOC-B240-06	Abandoned Oils and Miscellaneous Materials	EBS Category 1
AOC-B240-07	Open Pits at Basement Load Centers	EBS Category 1
AOC-B240-08	Former Building Uses	EBS Category 3
AOC-B240-09	B-240 Dry Wells	EBS Category 4
AOC-B240-10	Locked Hatch, Southeast Corner B-240	EBS Category 1
AOC-B240-11	Stressed Vegetation along Perimeter Fence	EBS Category 3
AOC-B240-12	Building 240/247/248 Fmr. Drum Storage Area	EBS Category 1
Building 247		
AOC-B247-01	Equipment Room A	EBS Category 1
AOC-B247-02	Photography Laboratory	EBS Category 3
AOC-B247-03	Stained Floor Mechanical Room	EBS Category 2
Building 248		
AOC-B248-01	Stained Floor Mechanical Room	EBS Category 2
AOC-B248-02	Floor Drains and Acid Neutralization Sump	EBS Category 4
AOC-B248-03	B-248 Dry Wells	EBS Category 1
AOC-B248-04	Abandoned Hazardous Materials	EBS Category 4

Note: AOCs classified **above** Category 4 are bold for reference.

Recommendations

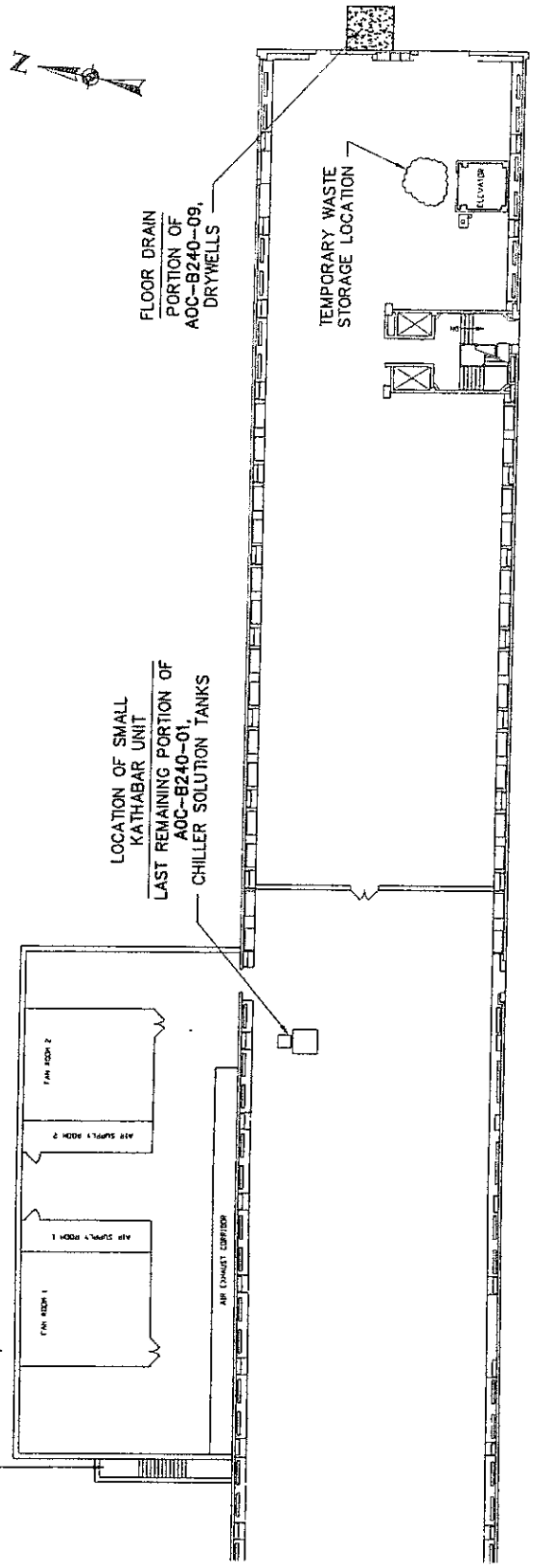
Lu Engineers recommends that the documented and potential presence of hazardous materials contained in building components such as fluorescent light ballasts, abandoned HVAC equipment, pipe and duct insulation, surface coatings and other materials be disclosed to potential future occupants, owners and lessees in accordance with AFI 32-7066.

ATTACHMENT 1

FIGURE 1

HAZARDOUS MATERIALS CORRECTIVE ACTION
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

JANUARY 2004



LU ENGINEERS
Civil and Environmental

JOSEPH C. LU ENGINEERING AND
LAND SURVEYING, P.C.
2230 PENFIELD ROAD
PENFIELD, NEW YORK 14526
585.377.1450
FAX: 585.377.1266

PROJECT TITLE:

RRS B240
CORRECTIVE ACTION

DRAWING TITLE:

BASEMENT
PLAN

AOC-B240-01 & 09

DRAWING NO.:	DESIGNED BY: ED
DATE: SEPT. 2003	DRAWN BY: DS
SCALE: AS SHOWN	CHECKED BY: ED

FIGURE 1

ATTACHMENT 2

REPRESENTATIVE PHOTOGRAPHS

HAZARDOUS MATERIALS CORRECTIVE ACTION
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

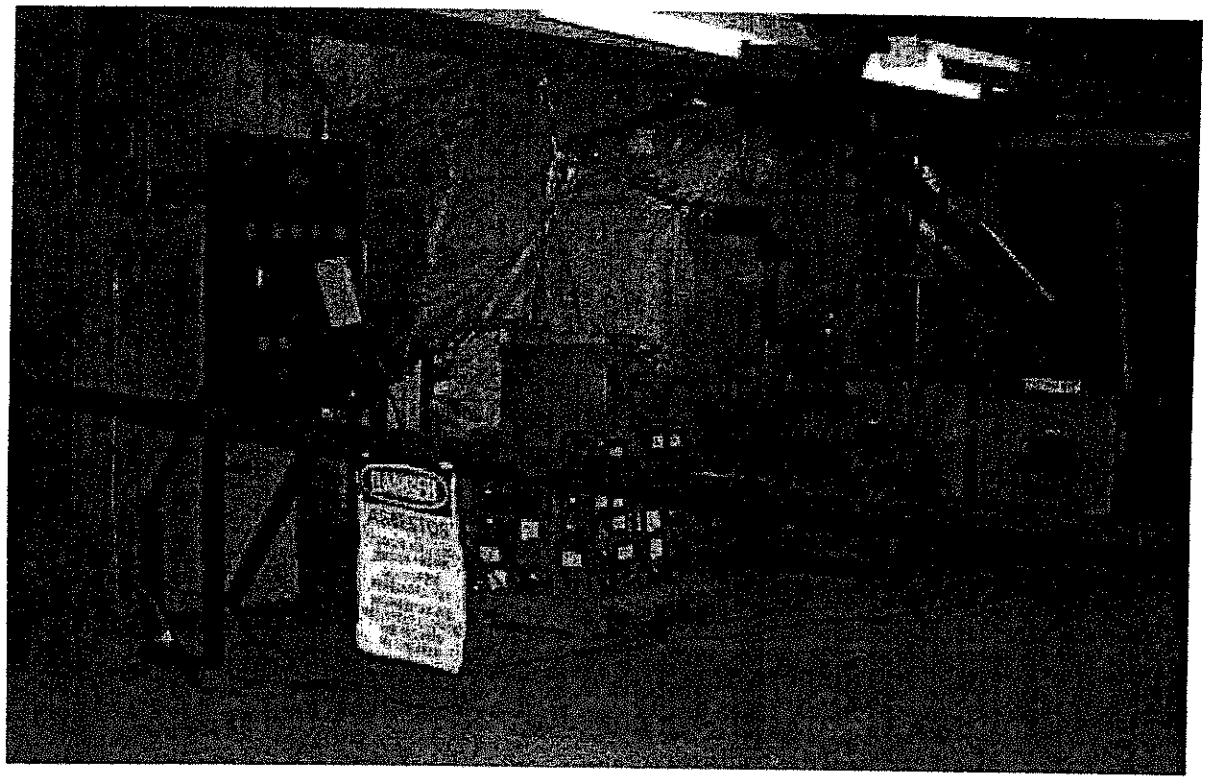
JANUARY 2004

LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
EBS Corrective Action, Parcel 1 – Rome Research Site

DATE
October 2003

SUBJECT
Asbestos abatement work area during removal of friable material prior to decontamination of Kathabar unit.

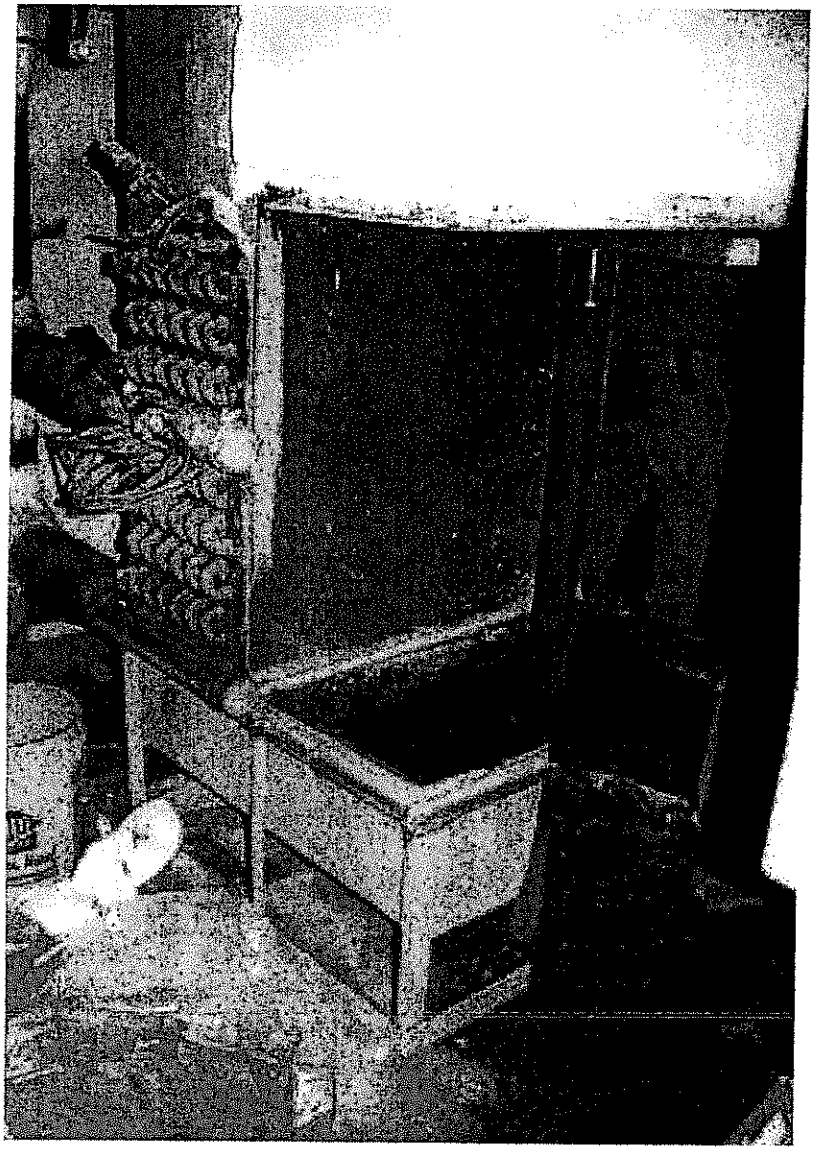


LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
EBS Corrective Action, Parcel 1 – Rome Research Site

DATE
October 2003

SUBJECT
Disassembly of Kathabar unit in-progress. View includes temporary bracing adjacent to coil section.



LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
EBS Corrective Action, Parcel 1 – Rome Research Site

DATE
October 2003

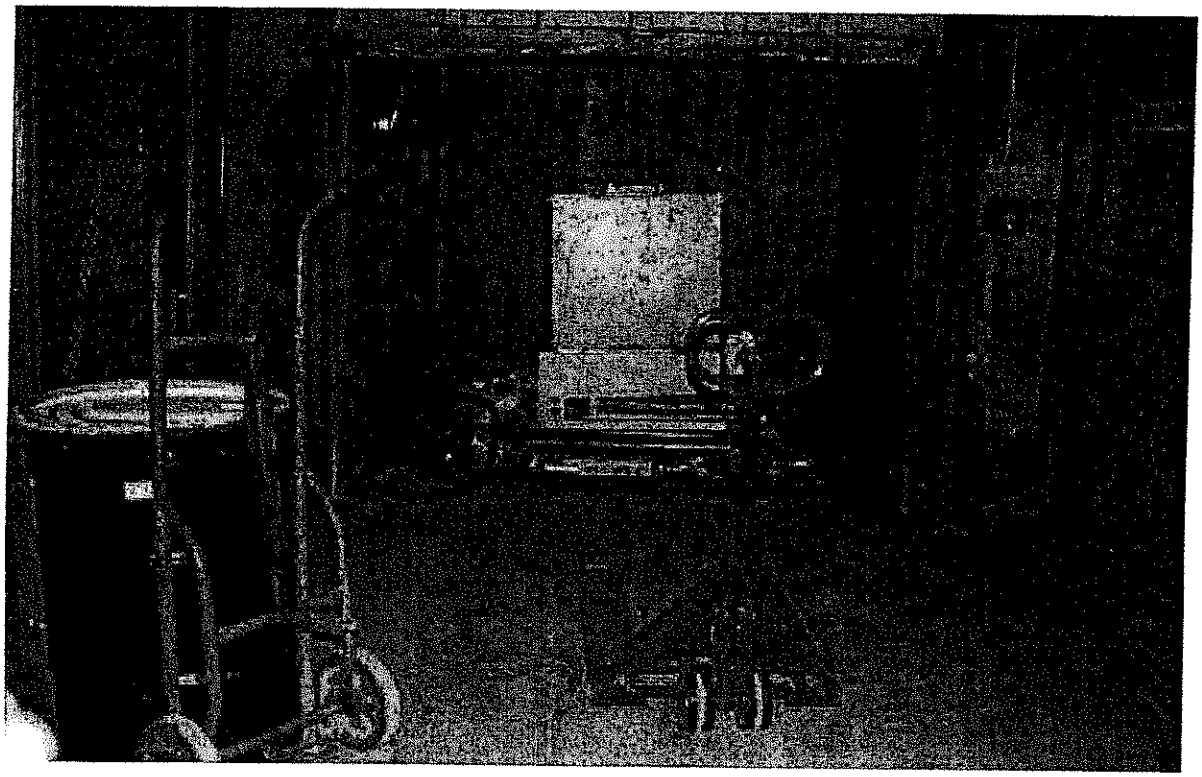
SUBJECT
Using electric plumbing snake to unclog area drain at eastern shaftway (AOC-B240-09).

LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
EBS Corrective Action, Parcel 1 – Rome Research Site

DATE
October 2003

SUBJECT
Portion of Kathabar unit ready for decontamination in the eastern shaftway

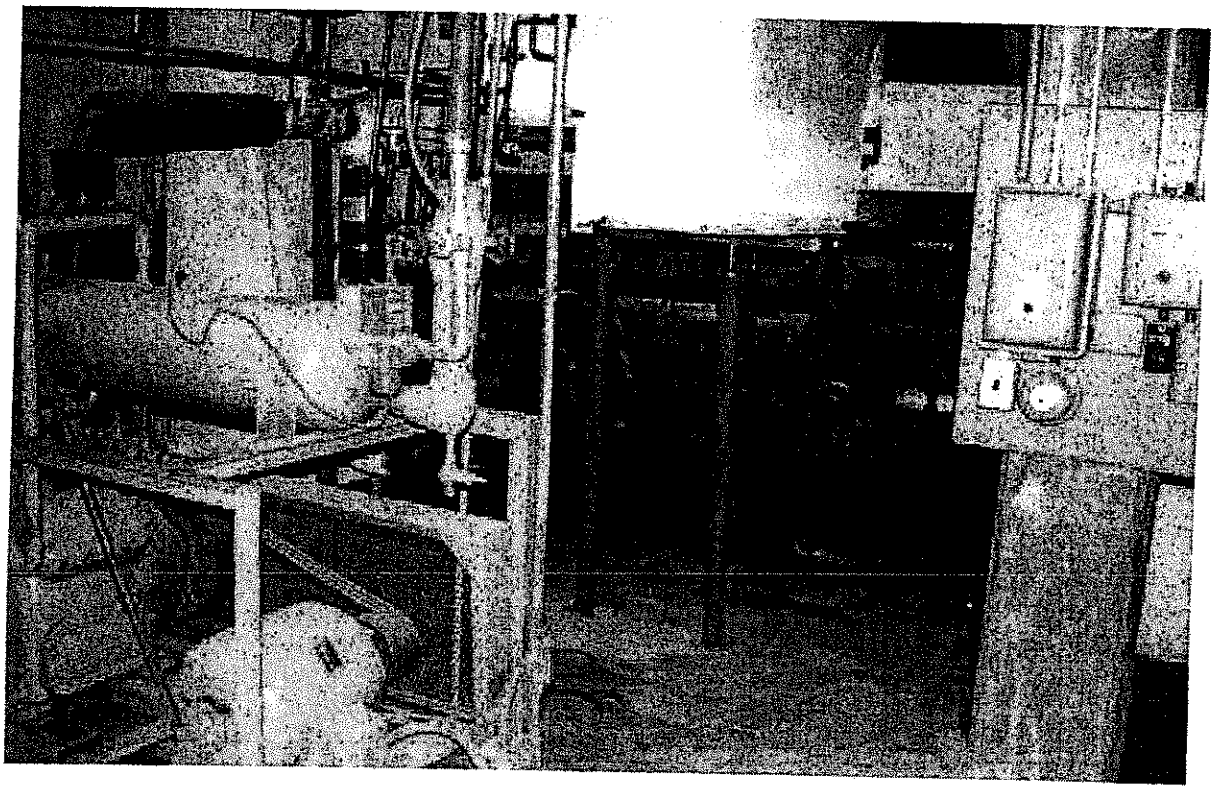


LU ENGINEERS
PHOTOGRAPHIC IDENTIFICATION SHEET

PROJECT
EBS Corrective Action, Parcel 1 – Rome Research Site

DATE
October 2003

SUBJECT
Work area upon completion of removal of Kathabar unit. Note bracing bolted in-place to secure duct work.



ATTACHMENT 3

ASBESTOS PROJECT MONITORING REPORT

HAZARDOUS MATERIALS CORRECTIVE ACTION
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

JANUARY 2004

Asbestos Abatement Monitoring Report

AIR FORCE RESEARCH LABORATORY
ROME RESEARCH SITE

BUILDING 240

GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, NEW YORK

PREPARED BY:

LU ENGINEERS
2230 PENFIELD ROAD
PENFIELD, NEW YORK 14526

November 2003

Project No. 13124-11

Asbestos Abatement Monitoring Report
Asbestos Contractor – AAA Environmental Inc.

AIR FORCE RESEARCH LABORATORY
ROME RESEARCH SITE

BUILDING 240

GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, NEW YORK

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1.0 INTRODUCTION 1

2.0 AIR SAMPLING 2

3.0 ALTERATIONS TO THE CONTRACT 2

4.0 LIMITS OF RESPONSIBILITY 2

ATTACHMENT A	General Information and October 2003 Hazardous Material Corrective Action Work Plan
ATTACHMENT B	Daily Inspection Reports, and Work Area Inspection Checklists.
ATTACHMENT C	Licenses and Certifications
ATTACHMENT D	Asbestos Waste Shipment Record (WSR)
ATTACHMENT E	Air Sample Chain of Custody Forms and Analytical Reports

1.0 INTRODUCTION

Lu Engineers was retained by the Air Force Research Laboratory Rome Research Site to act as their retained Project / Air monitor for the asbestos abatement necessary to complete the Hazardous Materials Corrective Action in Building 240. This report addresses the project monitoring of the asbestos removal completed by AAA Environmental, Inc. and is a final submission of all data in regards to air sampling and project monitoring.

The Project Team involved in this project was:

Asbestos Abatement Air And Project Monitor:	**Lu Engineers** Robert Elliott, P.E., Vice President Greg Andrus, CHMM, Project Manager Mike Johnson, Project Monitor
Asbestos Abatement Sub- Contractor:	**AAA Environmental, Inc.** Keith Balduena, Project Manager

AAA Environmental Inc., completed the asbestos abatement, under the direction of Keith Balduena, project manager.

The project started on October 27, 2003 and was completed on October 29, 2003.

AAA Environmental Inc. was responsible for abating all asbestos containing materials indicated in the Hazardous Material Corrective Action Work Plan dated October 2003.

The summary of removal quantities and October 2003 Hazardous Material Corrective Action Work Plan are included in Attachment A. The daily inspection reports and work area inspection checklists for this project are included in Attachment B. License and Certifications are included in Attachment C. A copy of the Waste Shipment Record (WSR) is included in Attachment D. A copy of the Air Sample Chain of Custody Forms and Analytical Reports are included in Attachment E

2.0 AIR SAMPLING

The air sampling conducted for this project either met or exceeded the NYS Department Of Labor requirements. The air sampling equipment was calibrated before and after each use.

LaBella Associates, P.C. a laboratory, which meets all of the accreditation and proficiency testing requirements of the New York State Department of Health, analyzed Phase Contrast Microscopy (PCM) air samples collected by Lu Engineers. EMSL Analytical, Inc, a laboratory, which meets all of the accreditation and proficiency testing requirements of the New York State

Department of Health and meets all accreditation and proficiency requirements under AHERA, analyzed Transmission Electron Microscopy (TEM) air samples collected by Lu Engineers.

3.0 ALTERATIONS TO THE CONTRACT

There were no Alterations to the Contract.

4.0 LIMITS OF RESPONSIBILITY

Lu Engineers accepts responsibility for assuring that the abatement areas are fully cleaned and decontaminated prior to removal of containment systems.

We do not accept responsibility for:

- Assuring correct use of respirator protection by the Contractor.
- Assuring that the Contractor employees were medically fit and properly trained.

Additionally, we do not accept responsibility for general contractor safety during activities, which take place outside of the abatement areas.

Attachment A

General Information

October 2003 Hazardous Material Corrective Action Work Plan

GENERAL INFORMATION

Project Name: Air Force Research Laboratory; Rome Research Site; Building 240
Griffiss Business and Technology Park
Site Address: 150 Electronic Parkway; Rome NY 13441
Client Project No.:
Lu Project No.: 13124-11

Project Monitor(s):

Mike Johnson		

Contractor: AAA Environmental Inc.
Address: 6679 Moore Road (P.O. Box 370)
Mattydale, New York 13211
Phone: (315) 454-4473 **Fax:**

Abatement Supervisor(s):	**NYSDOL Certificate Numbers:**
Keith Balduena	AH 89-11335

License:	**License No.:**	**Expiration Date(s):**
Lu Engineers	99-0907	1/31/04
AAA Environmental Inc.	99-0443	5/31/04

Quantity of Asbestos Abatement

Friable Material	Quantity	Non-Friable Material	Quantity
Duct Wrap/Fittings	<10 SF/ <25 LF	Caulk	<10SF

Project Start Date: 10/27/03 **Project Completion Date:** 10/29/03

Name/Address Waste Transporters:
AAA Environmental, Inc.
P.O. Box 370
Mattydale, New York 13211

Name and Address of Waste Disposal Sites:
Waste Management
High Acres Landfill
425 Perinton Parkway
Fairport, NY 14450

Sent waste to →

Project Name: RRS Purcell Corrective Action Lu Project No.: 13124-11

Site Address: 150 Electronic Parkway Client Project No: _____

Contractor: AAA Environmental

WORKER QUALIFICATION CHECKLIST

	NAME	SSN	NYS CARD	PHYSICAL	FIT TEST	AHERA
1.	Kahari Thomas	AH 03-03636	✓	✓	✓	✓
2.	Donald Misuis	AH 03 03384	✓	✓	✓	✓
3.	Keith Baldwin	AH 80-11335	✓	✓	✓	✓
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WORK PLAN

HAZARDOUS MATERIALS CORRECTIVE ACTION

AIR FORCE RESEARCH LABORATORY
ROME RESEARCH SITE

BUILDING 240

GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, NEW YORK

LU ENGINEERS
2230 PENFIELD ROAD
PENFIELD, NEW YORK 14526

October 2003

Project No. 13124-11

WORK PLAN
HAZARDOUS MATERIALS CORRECTIVE ACTION
AIR FORCE RESEARCH LABORATORY
ROME RESEARCH SITE

BUILDING 240

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1.2 AOC-B240-09, Building 240 Dry Wells 1

2.0 DESCRIPTION OF WORK 2

2.1 AOC-B240-01 Cleanup and Removal 2
2.2 AOC-B240-09 Cleanup 2

3.0 REPORT 2

ATTACHMENTS

1 Asbestos Abatement Specification
2 Plans

1.0 BACKGROUND

Contaminated portions of Building 240 that require corrective action to attain compliance with applicable regulations include the following:

1.1 AOC-B240-01, Chiller Solution Tanks

The three main components of a former dehumidifier system located in the basement of the B-240 annex were cleaned and removed in June 2002. During the process of removal and cleanup in this area, a previously unidentified dehumidifier unit was discovered. This unit is located in the basement of building 240 immediately west of the entrance into the annex basement.

This unit was manufactured by Kathabar Corporation, and is marked as having contained the identical hexavalent chromium "Kathene" solution as that identified in the dehumidifier system located in the annex basement.

Lu Engineers recommended that hazardous residues be appropriately removed as soon as practicable.

1.2 AOC-B240-09, B-240 Dry Wells

This AOC was investigated as part of the Phase II EBS. Contaminated sediments remain in the shaftway located at the east end of the building. The floor drain located in the center of this shaftway is piped to a drywell located to the east of the building.

Lu Engineers recommended that contaminated sediments in this location be appropriately removed as soon as practicable.

2.0 DESCRIPTION OF WORK

Brief descriptions of the proposed work associated with each AOC requiring corrective action are as follows:

2.1 AOC-B240-01Cleanup and Removal

The remaining heat exchanger unit, piping, tank and ductwork associated with this AOC will be decontaminated by means of power washing. Limited demolition of the units will be conducted in order to access all surfaces requiring decontamination. Asbestos gaskets and duct insulation will be removed in accordance with all applicable regulations as part of the demolition process. Lu Engineers will obtain air samples for phase contrast microscopic (PCM) analysis by an accredited laboratory as work progresses in accordance with the requirements of NYSDOL Code Rule 56.

Floor areas including residual spilled material will also be decontaminated. To the extent necessary, areas where decontamination is required will be isolated using plastic sheeting. Waste liquid generated during this process will be containerized for appropriate disposal. Waste plastic sheeting and related materials will also be properly disposed.

For estimating purposes, it is assumed that the decontamination process will result in the production of approximately 150 gallons (3 55-gallon drums) of wastewater requiring

proper disposal. The waste material will require sampling for waste characterization purposes. At least one sample will be required for full waste characterization including Full TCLP (SW 856), Reactivity, pH and Flashpoint.

It will be necessary to disconnect all electrical wiring associated with the Kathabar unit requiring demolition. It is assumed that RRS will be responsible for all necessary electrical disconnection.

Once decontamination has been completed, the unit will be removed from the B-240 basement. The steel ducts, framework and piping associated with the unit will be taken apart by means of saw and/or acetylene torch-cutting methods. Where feasible, demolition will also be conducted by manual disassembly of the units.

Outside air will be supplied to the work areas to prevent the buildup of excessive smoke and fumes resulting from torch cutting. Efforts will be made to convey fumes and smoke to the building exterior during the demolition process. Electric sewer fans will be used for air handling requirements.

All scrap materials will be transported to an appropriate disposal or recycling facility. Demolition will only include HVAC equipment requiring decontamination.

2.2 AOC-B240-09 Cleanup

The floor of the eastern shaftway in the basement of B-240 will be cleaned of residual contaminated sediments by manual and/or mechanical means. Manual cleaning will be conducted using appropriate methods including shoveling and wet cleaning. Once the majority of the sediment is removed, the floor of the shaftway will be power washed. Liquids will not be allowed to enter the floor drain in this location. Waste solids and liquids will be containerized in 55-gallon UN-approved drums.

For estimating purposes, it is assumed that the decontamination process will result in the production of approximately 100 gallons (2 55-gallon drums) of solids and wastewater requiring proper disposal. The waste material will require sampling for waste characterization purposes. At least one sample will be required for full waste characterization including Full TCLP (SW 856), Reactivity, pH and Flashpoint.

3.0 REPORT

Upon completion of field work and receipt of all analytical data, a memorandum will be prepared and submitted to RRS as an update of project progress. The data, findings and conclusions derived from the site and analytical work described in the preceding sections will be integrated into the Environmental Baseline Survey (EBS) report already in progress. This report will be prepared in accordance with all applicable Air Force Instructions and guidance documents as well as all applicable regulations. The report will follow the general format outlined in AFI 32-7066. All AOCs will be characterized, to the extent possible, as to individual EBS categories.

ATTACHMENT 1
ASBESTOS ABATEMENT SPECIFICATION

HAZARDOUS MATERIALS CORRECTIVE ACTION
AIR FORCE RESEARCH LABORATORY
ROME RESEARCH SITE

BUILDING 240

October 7, 2003

Attn: Interested Asbestos Abatement Contractors

Re: Request for Proposal
Hazardous Materials Corrective Action
Griffiss Business and Technology Park
Rome Research Site, Building 240

Dear Sir or Madame:
Lu Engineers is requesting a cost proposal from your firm for asbestos abatement associated with corrective action services for a contaminated area of Building 240 (B-240) situated within the Griffiss Business and Technology Park, located in Rome New York.

Background
Contaminated portions of Building 240 that require corrective action to attain compliance with applicable regulations include the following:

Dehumidifier System
The basement of B-240 includes a number of abandoned HVAC systems. An abandoned dehumidifier system is located in the basement that must be decontaminated, removed and disposed of.

The dehumidifier system was manufactured by Kathabar, Incorporated and is comprised of three components including a heat exchanger/dehumidifier and regenerator unit. The regenerator was designed to reconcentrate a lithium chromate solution (trade name: Kathene) that was sprayed over heat exchanger coils while exposed to an air stream within the dehumidifier unit. The Kathene solution is a hydrophilic material that absorbs water vapor when exposed to air. After sufficient exposure, the Kathene became diluted and required reconcentration.

The regenerator unit received diluted Kathene piped from the dehumidifier units and exposed the solution to heater coils to vaporize ("flash") the water out of solution. Reconcentrated Kathene was then piped back to the dehumidifier unit. Soon after installation of the dehumidifier system in B-240 in the early 1960's, Kathabar discontinued the use of the lithium chromate Kathene solution in favor of a lithium chloride alternative.

A small amount of friable asbestos is present on ducts and piping surrounding the regenerator unit. Non-friable caulk sealant has also been identified on the dehumidifier system components.

Disturbance of non-friable asbestos-containing caulk and related materials must be conducted under appropriate controls as specified in the attached Asbestos Abatement Specification.

Project Access
Building 240 and surrounding property are used as a research facility for and owned by the US Air Force. It is noted that certain restrictions may be imposed with respect to work hours and access to the building exterior. Work hours are assumed to be 7:00 AM to 4:30 PM weekdays. Exterior access may be limited to certain times or activities. Access issues will be further addressed with RRS personnel during the project walk-through.

Health and Safety
The contractor will be required to submit a site-specific health and safety plan (HASP) to Lu Engineers prior to the start of work. The HASP shall be reviewed, but not approved by Lu Engineers prior to the start of work. Contractor personnel entering active work areas shall wear appropriate personal protective equipment at all times during abatement activities. All workers shall be certified in accordance with OSHA 40-hour Hazardous Waste Site Worker training (29 CFR Part 1910.120).

Proposal Format
Bidders are requested to provide pricing for the specified work (including all labor, equipment, supplies, materials overhead and profit) as follows:

- Lump sum cost for abatement and controlled disturbance of ACMs as necessary to facilitate removal of the Kathabar unit by others. Price shall include all necessary handling and disposal of asbestos wastes.

Bids are due on or before Friday, October 10, 2003.

Thank you,

Gregory L. Andrus, CHMM

Enclosures:
B-240 Basement Plan
Abatement Schematic
Asbestos Specification

ASBESTOS ABATEMENT
ROME RESEARCH SITE – BUILDING 240

A. The Contractor is required to follow all applicable rules and regulations appropriate to Asbestos Abatement, as well as all sections of rules and regulations referenced in this specification. The Contractor is responsible for OSHA personal air sampling. The Owner will engage the services of an independent air monitoring firm to conduct abatement air monitoring and analysis.

B. The Contractor shall submit the following prior to the start of work: NYSDOL Contractor's License, NYSDOL Certifications for all workers on-site, waste transporter permit, waste disposal permit, daily progress log and waste disposal manifest.

C. All asbestos removal work performed on the Dehumidifier Unit shall be carried out within a tent enclosure. The tent shall be constructed of a minimum of two layers of 6 mil fire retardant polyethylene sheeting. Each tent shall have an attached air lock.

D. A personal and waste decontamination enclosure system that complies with NYSDOL Code Rule 56 shall be constructed. These enclosure systems can be remote from the work area. The building Owner will supply water, both hot and cold, but it is the Contractor's responsibility to make the connections. Wastewater shall be filtered prior to disposal in sewers.

E. The Contractor shall restrict access to the immediate work area where tent removal procedures are taking place using barrier tape and/or construction barriers. Danger signs shall be posted.

F. The Contractor shall wear protective clothing and respiratory protection during all aspects of the removal activities. The Contractors' sequence of work shall be as follows:

Dehumidifier Unit –

- The Contractor shall construct a two layer tent enclosure around the unit with an attached air lock.
- The Contractor shall install critical barriers in conformance with NYSDOL Code Rule 56-8.1(j).
- The Contractor shall remove all black-crumbly insulation from beneath the metal covers and around the coil ends on both sides of the unit, leaving the coils intact.
- The Contractor shall remove all TSI ACM 6 inches beyond the cutline on each duct, exposing 6 inches of bare metal when finished.
- Following the removal of all TSI ACM material from each duct, the Contractor shall install cloth wet wrap over all exposed ends of TSI ACM, to seal.
- Black ACM caulk exists in the horizontal joint of the unit where the top of the tank meets the base of both standing towers. The contractor shall make 6 inch long vertical cuts through the ACM caulk. The cuts shall also

be made 2 inches wide horizontally and located 6 inches inward from the corner of each standing tower base, on each side of the base. The cuts shall be placed such that the cut is centered around the ACM caulk. The Contractor shall install duct tape over the visible ACM caulk.

- HEPA vacuum the interior of the unit.
- Lu Engineers will conduct final air clearance sampling.

G. The tent installed shall be a single use barrier constructed with at least two (2) layers of 6 mil fire retardant polyethylene sheeting. All seams shall be sealed air tight using duct tape or spray adhesive.

H. Each tent shall be constructed with at least one airlock for worker/waste egress.

I. During removals, HEPA vacuums or negative air units shall be used to provide negative pressure inside the tents. There shall be a minimum of 4 air changes per hour inside the tents.

J. The workers shall wear two (2) disposable suits for all phases of the work. Workers exiting the tent shall HEPA vacuum the outer suit, enter the airlock, remove the outer suit and place it back into the work area. A clean second suit shall be donned before exiting the airlock and proceeding to the personal decontamination enclosure system or another tent.

K. Waste shall be placed in properly labeled 6 mil plastic bags or other appropriate containers with the appropriate waste generator and danger warning labels required under NESHAPS and OSHA. The outside of the bags or containers shall be wet wiped and/or HEPA vacuumed before being passed into the airlock for double bagging. All transportation of waste bags and containers outside the work area shall be in double lined carts before proceeding to the waste decontamination enclosure system and then to the waste dumpster or trailer until they are removed from site.

L. Following completion of gross abatement and after all accumulations of asbestos waste materials have been containerized, the following decontamination procedures shall be followed:

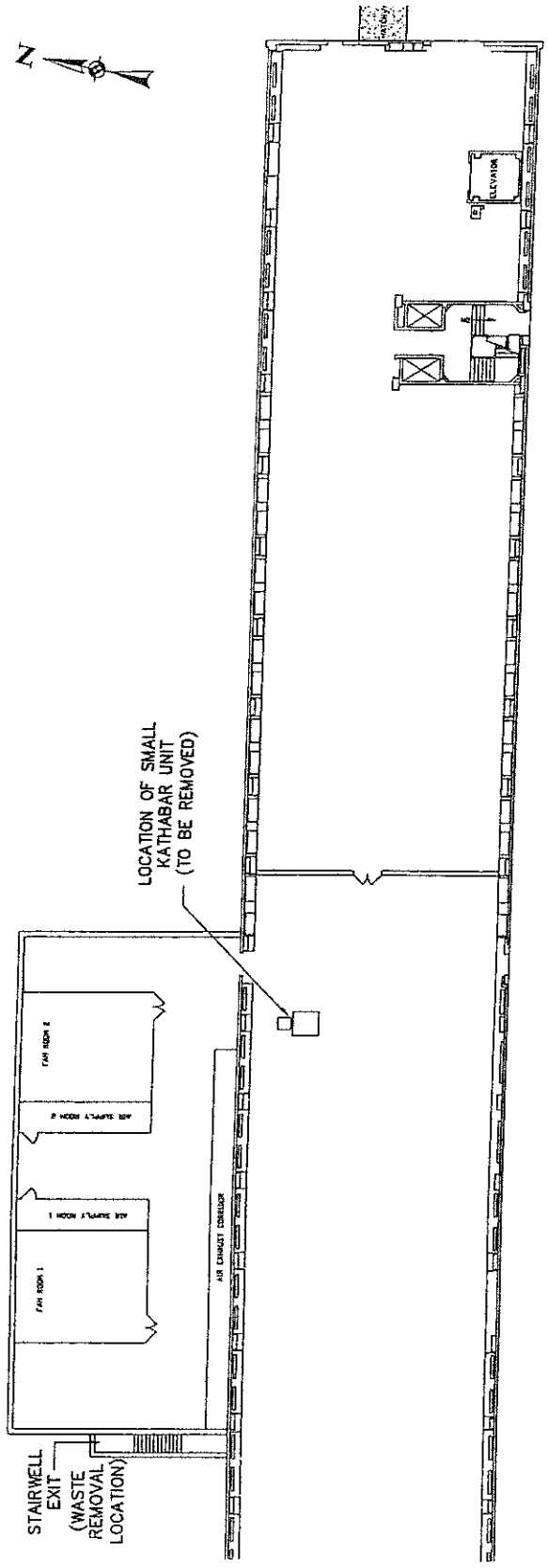
1. All bagged asbestos waste and unnecessary equipment shall be decontaminated and removed from the work area.
2. All surfaces in the work area shall be wet cleaned. A wet purpose shop vacuum may be used to pick up excess liquid and shall be decontaminated prior to removal from the work area.
3. The Asbestos Project Monitor shall conduct a visual inspection of the work area for cleanliness and completion of abatement.
4. The Contractor shall apply a thin coat of encapsulant to all surfaces in the work area which were not the subject of removal. In no event shall encapsulant be applied to any surface which was the subject of removal

prior to obtaining satisfactory air monitoring results. A general misting of the air with encapsulant will not be allowed.

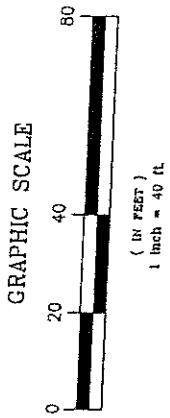
5. Upon approval from the Project Monitor for complete dryness within the tent enclosures, final air samples will be collected. Upon receipt of acceptable clearance sample results (less than 0.01 f/cc), the tent shall be collapsed into itself, placed in suitable asbestos disposal bags and transported to the waste decontamination enclosure. Isolation and critical barriers shall be removed.

M. The personal and waste decontamination units may be located within the building but must be constructed in such a way that access within a hallway is maintained. The waste removal route is indicated on the plans.

N. The price quotation for this work shall include all labor, materials, equipment, insurance, overhead and profit necessary to complete the work.



B-240
BASEMENT PLAN
SCALE: 1" = 40'



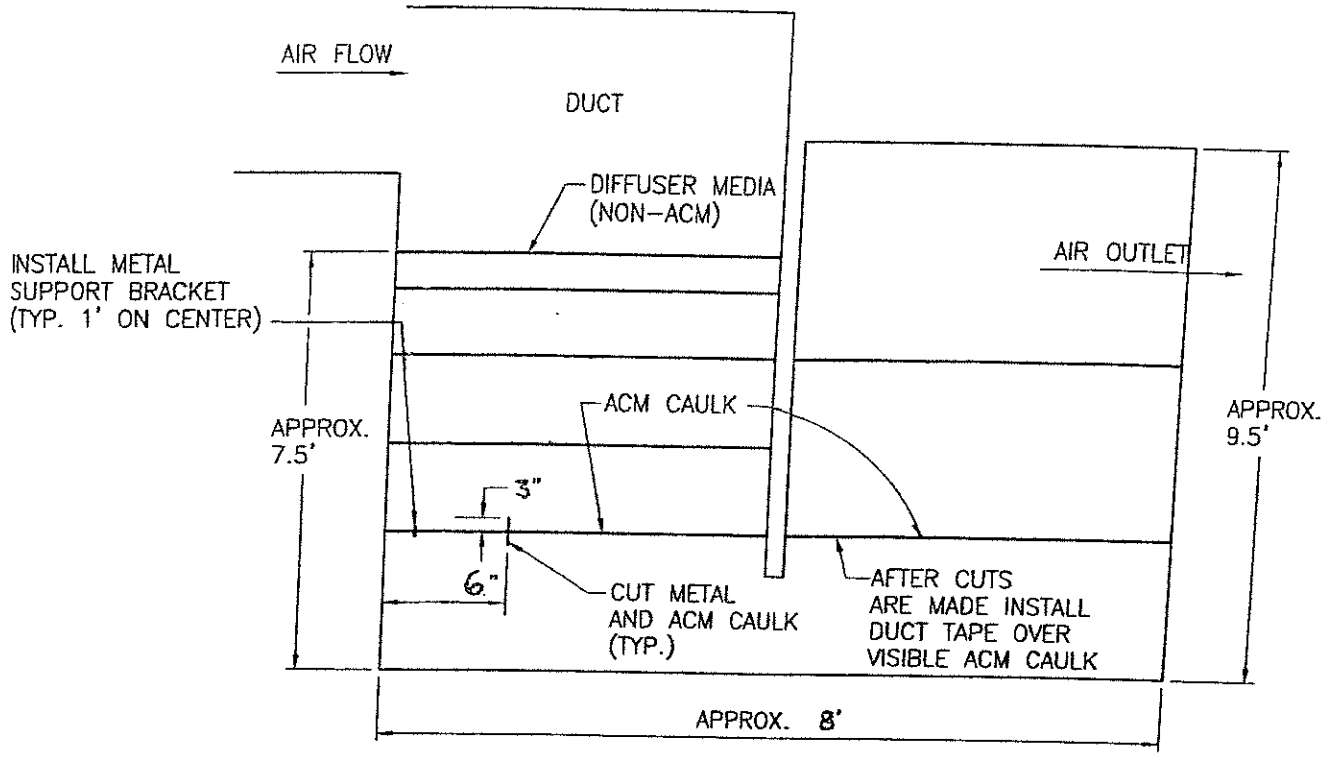
LU ENGINEERS
Civil and Environmental
JOSEPH C. LU ENGINEERING AND
LAND SURVEYING, P.C.
2230 PENFIELD ROAD
PENFIELD, NEW YORK 14526
(585) 377-1450
FAX: (585) 377-1266

PROJECT TITLE:
RRS B240
CORRECTIVE ACTION

DRAWING TITLE:
BASEMENT
PLAN
AOC-B240-02, 03 & 04

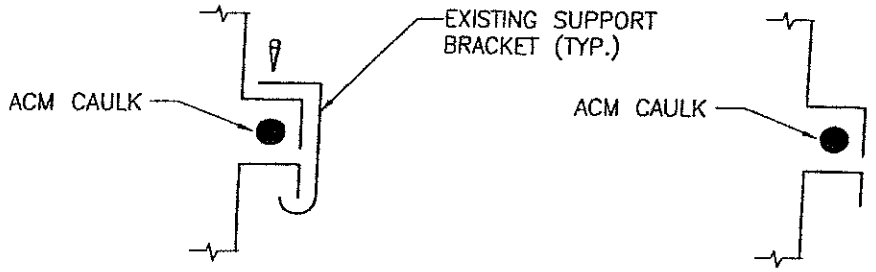
DRAWING NO.:	DESIGNED BY:
DATE: SEPT. 2003	DRAWN BY: DS
SCALE: AS SHOWN	CHECKED BY: ED

J:\3124\05\B240-base_2.dwg



ELEVATION DEHUMIDIFIER NO. 1

(TYP. BOTH UNITS)



SECTION A-A'

NOT TO SCALE

SECTION B-B'

NOT TO SCALE

ASBESTOS ABATEMENT PLAN

NOT TO SCALE

LU ENGINEERS
Civil and Environmental

ROME RESEARCH SITE

B240 ~ CORRECTIVE ACTION
ELEVATION VIEW-DEHUMIDIFIER NO. 1

BULK SAMPLE ASBESTOS ANALYTICAL REPORT

LABELLA ASSOCIATES, P. C.
ANALYTICAL LABORATORY
300 STATE STREET
ROCHESTER, NY 14614
(585) 454-6110 FAX(585) 454-3066

LBL JOB # 4720

ELAP # 11184
TEM ELAP # 10920

CLIENT PROJECT # 13124-11

472

CLIENT: Joseph C. Lu, Engin. & Land Surv. P.C.
ADDRESS: 2230 Penfield Road
Penfield, New York 14526
Attn: Greg Andrus

SAMPLE TYPE: Bulk
SAMPLE DATE: 08/20/2003

PROJECT LOCATION: Rome Research Site, Building 240 Basement Dehumidifier Unit

FIELD ID	LBL ID	method	ASBESTOS TYPE	%	OTHER FIBERS	%	MATRIX	%	COLOR / DESCRIPTION
B240-B-01	472-1	P	CHRYSOTILE	8	ND		MINERAL	92	BLACK CAULK
B240-B-02	472-2	P	ND		CELLULOSE	70	MINERAL	30	WHITE CANVAS COVERING
B240-B-03	472-3	P	CHRYSOTILE	10	FIBERGLASS	25	MINERAL	65	OFF-WHITE MUDDED FITTING
B240-B-04	472-4	P	CHRYSOTILE	60	ND		MINERAL	40	GREY DUCT INSULATION
B240-B-05	472-5	P	CHRYSOTILE	58	ND		MINERAL	42	GREY DUCT INSULATION
B240-B-06	472-6	P	CHRYSOTILE	15	ND		MINERAL	85	BLACK CRUMBLY INSULATION

Lab Supervisor: Matt Smith Date: 8/25/03

ND - None Detected CELL-Cellulose JC - Joint Compound MIN - Mineral GLASS - Fiberglass <1 = Trace PLAS - Plast
P - Friable PLM analytical result N - NOB PLM analytical result T - TEM analytical result
G-Gravimetric Matrix Reduction. Sample residue weight <1% of original sample weight, TEM not required.

*"Polarized-light microscopy (PLM) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can be used to determine if this material can be considered to be non-asbestos containing.

ATTACHMENT 2
PLANS

HAZARDOUS MATERIALS CORRECTIVE ACTION
AIR FORCE RESEARCH LABORATORY
ROME RESEARCH SITE

BUILDING 240

Attachment B

Daily Inspection Reports

Work Area Inspection Checklists

MURK 1d (4/87)

INSPECTOR'S DAILY REPORT

Date: 10-27-03

Day of Week: S (M) T W T F

I.R. No.: 1

Sheet No. 1 of 1

JOB STAMP
RRS Peerless Corrective Action
150 Electronic Parkway
LU Project No. 13124-11

If pertinent to the Construction Operation		
	AM	PM
Weather		
Temperature		

DESCRIPTION OF WORK PERFORMED AND INSPECTED
Specify for Each Operation: Item No., Sub-Contractor (if any), Location and Nature of Work

Waited to sign-in 5:30am → 10:50am, thereafter Abatement Contractor began Mobilization 11am → Noon. Begin setup of tent enclosure, constructed with (2) layers of 6 mil. Fire Retardent poly sheeting. All seams were sealed air tight using Duct tape and spray adhesive. One Airlock was constructed for worker / waste Egress. Barrier tape in place, and Asbestos signage posted. A Remote Personal / waste Decon is being utilized. Two NAU on site w/ one being back-up unit.

ITEM NO.	FS	ES	INTERIM QUANT.	FINAL QUANT.	QUANT. CHK.	DESCRIPTION OF WORK	COMPUTI ENT.	CH

The above described work was incorporated into this project and was inspected by:

Michael Johnson
Inspector's Signature

Reviewed by: _____ Date

☐ Engineer-in-Charge
☐ Resident Engineer

☐ Reverse side used for additional remarks and sketches.

MURK 1d (4/87)

INSPECTOR'S DAILY REPORT

Date: 10-28-03

Day of Week: S M T W T F

I.R. No.: 2

Sheet No. 1 of 1

JOB STAMP
PRS PERCELL CORRECTIVE ACTION
150 ELECTRONIC PARKWAY
LU PROJECT NO: 13424-11

If pertinent to the Construction Operation	AM	PM
Weather		
Temperature		

DESCRIPTION OF WORK PERFORMED AND INSPECTED
Specify for Each Operation: Item No., Sub-Contractor (if any), Location and Nature of Work

ARRIVE ON SITE @ 7AM, BEGIN INSTALLING CRITICAL BARRIER, NAU RUNNING.
PERFORM PRE-ABATEMENT INSPECTION OF THE WORK AREA - O.K.
ABATEMENT ACTIVITIES BEGAN @ 9:40AM
NOTE: CRITICALS INSTALLED OUTSIDE THE WORK AREA (RETURN DUCT)

ITEM NO.	FS	ES	INTERIM QUANT.	FINAL QUANT.	QUANT. CHK.	DESCRIPTION OF WORK	COMPUTE ENT.	CH

The above described work was incorporated into this project and was inspected by:

Michael Johnson
Inspector's Signature

Reviewed by: _____ Date

☐ Engineer-in-Charge
☐ Resident Engineer

☐ Reverse side used for additional remarks and sketches.

MURK 1d (4/87)

INSPECTOR'S DAILY REPORT

Date: 10-29-03

Day of Week: S M T W T F

I.R. No.: 3

Sheet No. 1 of 1

JOB STAMP

RRS Perrell Corrective Action
150 Electronic Parkway
LW Project No. 13124-11

If pertinent to the Construction Operation		
	AM	PM
Weather		
Temperature		

DESCRIPTION OF WORK PERFORMED AND INSPECTED
Specify for Each Operation: Item No., Sub-Contractor (if any), Location and Nature of Work

Received final analysis from final ARS taken last nite, passing results were achieved. Crew arrived on site and began tear-down operations.

ITEM NO.	FS	ES	INTERIM QUANT.	FINAL QUANT.	QUANT. CHK.	DESCRIPTION OF WORK	COMPUTI ENT.	CH

The above described work was incorporated into this project and was inspected by:

Michael Johnson
Inspector's Signature

Reviewed by: _____ Date

☐ Engineer-in-Charge
☐ Resident Engineer

☐ Reverse side used for additional remarks and sketches.

PRE-ABATEMENT CHECKLIST

Project Name: RRS Peccell Corrective Action **Lu Project No.:** 13124-11

Site Address: 150 Electronic Parkway **Client Project No:** _____

Project Monitor: Michael Johnson **Date:** 10-28-03

Work Area: Building 240 Basement

POSTINGS

▸ Environmental Protection Agency Notification	Yes	No
▸ NYS Department of Labor Notification	Yes	No
▸ Industrial Code Rule 56	Yes	No
▸ Abatement License:		
• Contractor	Yes	No
• Air Firm	Yes	No
• Project Monitor	Yes	No
▸ Complete Sign In/Out Log	Yes	No
▸ Warning Signs at all Entrances to the Work Area	Yes	No
▸ Applicable Variances	Yes	No
▸ Emergency Phone Numbers	Yes	No
▸ Fire Department Notification	Yes	No
▸ Police Notification	Yes	No

WORK AREA PREPARATION

▸ Number of Negative Air Machines: 2 Operational 1		
▸ Successful Smoke Test N/A	Yes	No
▸ Strip Chart Recorder Operating	Yes	No
▸ Waste Water Filtration System Operating	Yes	No
▸ HVAC System Shut Down and Locked Out	Yes	No
▸ Electrical System Shut Down and Locked Out	Yes	No
▸ Personal Decontamination Enclosure Complete	Yes	No
▸ Waste Decontamination Enclosure Complete	Yes	No
▸ Isolation Barriers Constructed, As Necessary	Yes	No
▸ All Necessary Surfaces Covered with Required Layers of Fire Retardent Polyethylene	Yes	No
▸ All Penetrations Sealed within the Work Area	Yes	No
▸ Emergency Exit Signs Posted	Yes	No

DAILY CHECKLIST

Project Name: BRS Purcell Corrective Action **Lu Project No.:** 13124-11

Site Address: 150 Electronic Parkway **Client Project No.:** _____

Project Monitor: Michael Dotson **Date:** 10-22-03

Work Area: Building-240 Basement (Mobilization)

- Number of Workers: On Site 3
  Inside Work Area 3
- Number of Negative Air Machines: 2 Operational
- Constant Operation of Negative Air Machines — Yes No
- Negative Pressure Achieved — Yes No
- Daily Smoke Check Time: N/A AM/PM
- First Barrier Integrity Check Time: N/A AM/PM
- Second Barrier Integrity Check Time: N/A AM/PM
- Have Primary and Secondary Filters been Changed — Yes No
- Are Shower and Filtration Units Working Properly — Yes No
- Are the following being Properly Utilized:
  - ▸ Protective Equipment
    - · Respirator — Yes No
    - · Suit — Yes No
    - · Gloves — Yes No
    - · Glasses — Yes No
    - · Footwear — Yes No
    - · Hard Hat — Yes No
  - ▸ Work Practices
    - · Properly Bagged Waste — Yes No
    - · EPA Waste Generator Labels Applied — Yes No
    - · Material Properly Wetted — Yes No
    - · Clean Work Area — Yes No
    - · Workers Utilizing Decontamination System — Yes No
    - · Sign In/Out Log Being Used — Yes No
  - ▸ Proper Signage
  - ▸ Air Monitoring
    - · Laboratory Name: Labella Labs
    - · ELAP # _____
    - · NYS Samples Properly Placed — Yes (No)
    - · Type of Samples: Pre-Abatement Work-In-Place Finals (circle one) BK Ground
    - · Number of Samples Outside the Work Area: 1
    - · Number of Samples Inside the Work Area: 1
    - · Number of OSHA Samples _____
    - · Type and Quantity of ACM Being Removed: Mudded Joints, Brick, Duct wrap

DAILY CHECKLIST

Project Name: RRS Parcell Corrective Action **Lu Project No.:** 13124-11

Site Address: 150 Electronic Parkway **Client Project No.:** _____

Project Monitor: Michael Johnson **Date:** 10/28/03

Work Area: Building - 240 Basement

- Number of Workers: On Site 3
  Inside Work Area 2
- Number of Negative Air Machines: 2 Operational 1
- Constant Operation of Negative Air Machines — Yes / No
- Negative Pressure Achieved — Yes / No
- Daily Smoke Check Time: N/A AM/PM
- First Barrier Integrity Check Time: 7:40 AM/PM
- Second Barrier Integrity Check Time: 5:40 AM/PM
- Have Primary and Secondary Filters been Changed — Yes / No
- Are Shower and Filtration Units Working Properly — Yes / No
- Are the following being Properly Utilized:
  - ▸ Protective Equipment
    - · Respirator — Yes / No
    - · Suit — Yes / No
    - · Gloves — Yes / No
    - · Glasses — Yes / No
    - · Footwear — Yes / No
    - · Hard Hat — Yes / No
  - ▸ Work Practices
    - · Properly Bagged Waste — Yes / No
    - · EPA Waste Generator Labels Applied — Yes / No
    - · Material Properly Wetted — Yes / No
    - · Clean Work Area — Yes / No
    - · Workers Utilizing Decontamination System — Yes / No
    - · Sign In/Out Log Being Used — Yes / No
  - ▸ Proper Signage
  - ▸ Air Monitoring
    - · Laboratory Name: Labella Labs
    - · ELAP # _____
    - · NYS Samples Properly Placed — Yes / No
    - · Type of Samples: Pre-Abatement / Work-In-Place / Finals (circle one)
    - · Number of Samples Outside the Work Area: 4
    - · Number of Samples Inside the Work Area: 0
    - · Number of OSHA Samples _____
    - · Type and Quantity of ACM Being Removed: Mudded Joints, Block, Duct wrap

DAILY CHECKLIST

Project Name: RLS Parcell Corrective Action **Lu Project No.:** 13129-11

Site Address: 150 Electronic Parkway **Client Project No.:** _____

Project Monitor: Michael Johnson **Date:** 10-29-03

Work Area: Building 240 - Basement (Tear-Down)

- Number of Workers: On Site 2
  Inside Work Area 2
- Number of Negative Air Machines: N/A Operational
- Constant Operation of Negative Air Machines — Yes No
- Negative Pressure Achieved — Yes No
- Daily Smoke Check Time: N/A AM/PM
- First Barrier Integrity Check Time: N/A AM/PM
- Second Barrier Integrity Check Time: N/A AM/PM
- Have Primary and Secondary Filters been Changed — Yes No
- Are Shower and Filtration Units Working Properly — Yes No
- Are the following being Properly Utilized:
  - ▸Protective Equipment
    - Respirator — Yes No
    - Suit — Yes No
    - Gloves — Yes No
    - Glasses — Yes No
    - Footwear — Yes No
    - Hard Hat — Yes No

N/A

  - ▸Work Practices
    - Properly Bagged Waste — Yes No
    - EPA Waste Generator Labels Applied — Yes No
    - Material Properly Wetted — Yes No
    - Clean Work Area — Yes No
    - Workers Utilizing Decontamination System — Yes No
    - Sign In/Out Log Being Used — Yes No
  - ▸Proper Signage
  - ▸Air Monitoring
    - Laboratory Name: _____
    - ELAP # _____

N/A

    - NYS Samples Properly Placed — Yes No
    - Type of Samples: Pre-Abatement Work-in-Place Finals (circle one)
    - Number of Samples Outside the Work Area: _____
    - Number of Samples Inside the Work Area: _____
    - Number of OSHA Samples _____
    - Type and Quantity of ACM Being Removed: _____

FIRST CLEAN CHECKLIST

Project Name: RRS Perrell Corrective Action **Lu Project No.:** 13124-11

Site Address: 150 Electronic Parkway **Client Project No:** _____

Project Monitor: Michael Johnson **Date:** 10-28-03

Work Area: Building 240 - Basement

- Barrier Integrity Sufficient (Yes) No
- List Removal Surfaces:
  - Flooded Joints
  - Duct Wrap
  - Fire Brick
- All Surfaces and Areas of Removal Free of Visual Debris (Yes) No
- All Waste Double Bagged, Labeled, and Disposed of Properly (Yes) No
- Pre and Intermediate Filters Changed (Yes) No
- First Clean Approved (Yes) No
- Encapsulant Applied Only to Polyethylene Barriers Not the Removal Surface (Yes) No
- First Layers of Poly Torn Down and Double Bagged Yes No
- Approval to Begin N/A Hour Wait Period Yes No
  Time: _____
- A Second Clean is Required for This Work Area Yes No
  If No, Not Required By: N/A
- Third Clean is Required for This Work Area Yes No
  If No, Not Required By: N/A

K:\JOBS\FORMS\1STCLEAN

FINAL INSPECTION CHECKLIST

Project Name: RRS Pelcell Corrective Action **Lu Project No.:** 13124-11

Site Address: 150 Electronic Parkway **Client Project No.:** _____

Project Monitor: Michael Johnson **Date:** 10-28-03

Work Area: Building 240 - Basement

PART 1 PRE-FINAL AIR SAMPLING INSPECTION

▸Barrier Integrity Sufficient	Yes	No
▸Inspection of All Removal Areas (ie: elbows, fittings, pipes, etc.)	Yes	No
▸All Surfaces Reinspected and Free of Visible Debris	Yes	No
▸All Polyethylene, other than Isolation Barriers, Double Bagged and Disposed of Properly	Yes	No
▸All Surfaces Properly Coated with an Encapsulant Tinted or Untinted (Circle One)	Yes	No
▸All Tools Properly Cleaned and Removed from the Work Area	Yes	No
▸Pre and Intermediate Filters Changed	Yes	No
▸Air Changes Reduced to Two (2) Changes per Hour	Yes	No
▸No Pooled or Standing Water	Yes	No
▸Twelve Hour Drying Time Complete N/A	Yes	No

PART 2 POST TEARDOWN

Date: 10-29-03

▸All Polyethylene Isolation Barriers Disposed	Yes	No
▸Any Debris found Beneath Critical Barriers Immediately Wet Wiped and/or HEPA Vacuumed	Yes	No
▸Inspected All Surfaces previously covered with ACM (ie: pipes, fittings, HVAC, Floors, etc)	Yes	No
▸Inspected all Surfaces Beneath the Decontamination Unit	Yes	No
▸Shower Filtration System Filters Disposed of Properly	Yes	No

Attachment C

Licenses and 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: 99-0907
DATE OF ISSUE: 1/2/03
EXPIRATION DATE: 1/31/04

Contractor: Joseph C. Lu Engineering and Land Surveying, PC

Address: 2230 Penfield Road
Penfield, NY 14526

Duly Authorized Representative: Robert J. Elliott, PE

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.

This license is valid only for the contractor named above and this license or a photocopy must be prominently 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.

Richard Cucolo, Director
FOR THE COMMISSIONER OF LABOR

SH 432 (10-00)

STATE OF NEW YORK - DEPARTMENT OF LABOR

ASBESTOS CERTIFICATE

MICHAEL B JOHNSON
CLASS(EXPIRES)
C ATEC(08/04) D INSP(08/04)
H PM (08/04)

CERT# 91-00491

MUST BE CARRIED ON ASBESTOS PROJECTS

DMV# 636398335
EYES BLK
HAIR BLK
HGT 5' 00"

IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 151 BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
Antonia C. Novello, M.D., M.P.H., Dr.P.H.

Expires 12:01 AM April 01, 2004
Issued June 06, 2003

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. RICHARD K. ROTE
LABELLA LABORATORIES
300 STATE STREET
ROCHESTER NY 14614 United States

NY Lab Id No: 11184
EPA Lab Code:

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	Method Not Specified

Seal No.: 19142

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)

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC 17025:1999
ISO 9002:1994

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

AMA ANALYTICAL SERVICES, INC.
LANHAM, MD

is recognized by the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria set forth in NIST Handbook 150:2001, all requirements of ISO/IEC 17025:1999, and relevant requirements of ISO 9002:1994. Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:

AIRBORNE ASBESTOS FIBER ANALYSIS

June 30, 2004
Effective through

C D Fasson
For the National Institute of Standards and Technology

NVLAP Lab Code: 101143-0

NVLAP-0[illegible]06-01)

National Institute of Standards and Technology

NVLAP®

National Voluntary Laboratory Accreditation Program

ISO/IEC 17025:1999
ISO 9002:1994

Scope of Accreditation

AIRBORNE ASBESTOS FIBER ANALYSIS **NVLAP LAB CODE 101143-0**

AMA ANALYTICAL SERVICES, INC.
4475 Forbes Blvd.
Lanham, MD 20706
Mr. Andreas Saldivar
Phone: 301-459-2640 Fax: 301-459-2643
E-Mail: asaldivar@amalab.com
URL: http://www.amalab.com

NVLAP Code	*Designation*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

June 30, 2004

Effective through

For the National Institute of Standards and Technology

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
Antonia C. Novello, M.D., M.P.H., Dr.P.H.

Expires 12:01 AM April 01, 2004
Issued May 22, 2003

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. G.EDWARD CARNEY
AMA ANALYTICAL SERVICES INC
4475 FORBES BLVD
LANHAM MD 20706 United States

NY Lab Id No: 10920
EPA Lab Code: MD00084

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Drinking Water Metals I	
Copper, Total	SM 18-19 3111B
Lead, Total	EPA 200.9
Drinking Water Miscellaneous	
Asbestos	EPA 100.1

Serial No.: 18634

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)

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
Antonia C. Novello, M.D., M.P.H., Dr.P.H.

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MR. G.EDWARD CARNEY
AMA ANALYTICAL SERVICES INC
4475 FORBES BLVD
LANHAM MD 20706 United States

NY Lab Id No: 10920
EPA Lab Code: MD00084

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	Method Not Specified
Asbestos in Non-Friable Material	Method Not Specified
Lead in Dust Wipes	Method Not Specified
Lead in Paint	Method Not Specified

Serial No.: 18635

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)

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
Antonia C. Novello, M.D., M.P.H., Dr.P.H.

Expires 12:01 AM April 01, 2004
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MR. G.EDWARD CARNEY
AMA ANALYTICAL SERVICES INC
4475 FORBES BLVD
LANHAM MD 20706 United States

NY Lab Id No: 10920
EPA Lab Code: MD00084

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

Asbestos	40 CFR APX A No. III
Fibers	NIOSH 7400 A RULES

Serial No.: 18636

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)

Attachment D

Asbestos Waste Shipment Record

AAA Environmental, Inc.

P.O. Box 370
Mattydale, New York 13211

ASBESTOS WASTE SHIPMENT RECORD (WSR)

GENERATOR

1. Work site name and mailing address | Owner's name | Owner's telephone no.

2. Operator's name and address
AAA Environmental, Inc.
P.O. Box 370
Mattydale, New York 13211
| Operator's telephone no. 315-454-4473

3. Waste disposal site (WDS) name, mailing address, and physical site location | WDS phone no.

4. Name, and address of responsible agency
U.S. EPA Region II
26 Federal Plaza, Room 500
N.Y. N.Y. 10278
Phone No. (212) 264-2525

5. Description of materials	6. Containers No.	Type	7. Total quantity m^3 (yd^3)
	18		

8. Special handling instructions and additional information

9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consigment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Printed/typed name & title | Signature | Month Day Year

TRANSPORTER

10. Transporter 1 (Acknowledgment of receipt of materials)

Printed/typed name & title | Signature | Month Day Year

Address and telephone no.

11. Transporter 2 (Acknowledgment of receipt of materials)

Printed/typed name & title | Signature | Month Day Year

Address and telephone no.

DISPOSAL SITE

12. Discrepancy indication space

13. Waste disposal site owner or operator: Certification of receipt of asbestos materials covered by this manifest except as noted in item 12.

Printed/typed name & title | Signature | Month Day Year

SITE COPY

Attachment E

Air Sample Chain of Custody Forms and Analytical Reports

PHASE CONTRAST MICROSCOPY
ANALYTICAL REPORT

LABELLA ASSOCIATES, P.C.
ANALYTICAL LABORATORY
300 STATE STREET
ROCHESTER, NY 14614
(585) 454-6110 FAX (585) 454-3066

LBL JOB# 61203

612

ELAP # 11184

CLIENT: Joseph C. Lu, Engin. & Land Surv. P.C.

ADDRESS: 2230 Penfield Road
Penfield, New York 14526
Attn: Christine Davey

CLIENT PROJECT # 13124-11

SAMPLE TYPE: Backgrounds

SAMPLE DATE: 10/27/2003

PROJECT LOCATION: 150 Electronic Parkway

FIELD ID	LBL ID	VOL	F/mm	F/cc	I/OWA	SAMPLE LOCATION
GAB-240-1	612-1	1,200.0	20.8	**0.007**	IWA	
GAB-240-2	612-2	1,200.0	15.9	**0.005**	OWA	
GAB-240-3	612-3		<7			FIELD BLANK

NIOSH 7400 METHOD, OLYMPUS CH2 MICROSCOPE

(<) LESS THAN - INDICATES LOWER LIMIT OF DETECTION

LAB SUPERVISOR: Matt Smith DATE: 10/28/03

SAMPLES NOT COLLECTED BY LBL. RESULTS ARE BASED UPON VALUES SUPPLIED BY THE CLIENT.

PHASE CONTRAST MIRCROSCOPY IS NOT SPECIFIC FOR ASBESTOS FIBERS

LABELLA
Engineering, Architecture and Surveying

LaBella Associates, P.C.
Analytical Laboratory
300 State Street
Rochester, New York 14614
(716) 454-6110 FAX 454-3066

AIR MONITORING FIELD DATA

LBL Job # 61203

BACKGROUND ☑

Pre-Abatement ☐

Work in Progress ☐

Finals ☐

PCM ☑ TEM ☐

Client AFRL/RRS, IFOCU Project # 13124-

Site Address 150 ELECTRONIC PARKWAY

Site Description

Abatement Contractor AAA ENVIRONMENTAL

Specified Clearance Level Less than 0.005

Observations/Comments

Lab ID	Field ID	Pump ID	Flow Rate (lpm) Start	Stop	Ave	Time Start	Stop	Total Min	Vol Liter	IWA	OWA	Sample Location
	GAB-240-1		12.0	12.0	12.0	12:00	12:40	100	1200	✓		
	GAB-240-2		12.0	12.0	12.0	12:00	12:40	100	1200		✓	
	GAB-240-3		–	–	–	–	–	–	–			BLANK

Air Technician Michael Johnson Signature Michael Johnson Date 10-27-03

Chain of Custody

Sent to the following lab for analysis GAB-240-1 Fax Results To: GAB-240-3

Relinquished by ~~[illegible]~~ Greg Andrus ~~Michael Johnson~~ Date/Time 10-27-03

Carrier HAND DELIVER Number of Samples 3

Received By Matt Smith Date/Time 10/28/03 Accept ☒ Reject ☐

Results Transmitted By _____ Date/Time _____

Fax ☐ Phone ☐ In Person ☐

Final Report Transmitted Date _____ Tech. Contact/Pager # _____

PHASE CONTRAST MICROSCOPY
ANALYTICAL REPORT

LABELLA ASSOCIATES, P.C.
ANALYTICAL LABORATORY
300 STATE STREET
ROCHESTER, NY 14614
(585) 454-6110 FAX (585) 454-3066

LBL JOB# 61103

ELAP # 11184

611

CLIENT: Joseph C. Lu, Engin. & Land Surv. P.C.

CLIENT PROJECT # 13124-11

ADDRESS: 2230 Penfield Road
Penfield, New York 14526
Attn: Christine Davey

SAMPLE TYPE: Work In Progress

SAMPLE DATE: 10/28/2003

PROJECT LOCATION: 150 Electronic Parkway

FIELD ID	LBL ID	VOL	F/mm	F/cc	I/OWA	SAMPLE LOCATION
GAB-240-4	611-1	1,620.0	20.8	**0.005**	OWA	OUTSIDE AIRLOCK
GAB-240-5	611-2	1,620.0	24.5	**0.006**	OWA	AT CRITICAL #1
GAB-240-6	611-3	1,620.0	18.4	**0.004**	OWA	AT CRITICAL #2
GAB-240-7	611-4	1,620.0	7.3	**0.002**	OWA	NEGATIVE AIR UNIT
GAB-240-8	611-5		<7			FIELD BLANK

NIOSH 7400 METHOD, OLYMPUS CH2 MICROSCOPE

(<) LESS THAN - INDICATES LOWER LIMIT OF DETECTION

LAB SUPERVISOR: Matt Smith DATE: 10/28

SAMPLES NOT COLLECTED BY LBL. RESULTS ARE BASED UPON VALUES SUPPLIED BY THE CLIENT.

PHASE CONTRAST MIRCROSCOPY IS NOT SPECIFIC FOR ASBESTOS FIBERS

LABELLA
Engineering, Architecture and Surveying

LaBella Associates, P.C.
Analytical Laboratory
300 State Street
Rochester, New York 14614
(716) 454-6110 FAX 454-3066

AIR MONITORING FIELD DATA

LBL Job # 61103

BACKGROUND ☐
Pre-Abatement ☐
Work in Progress ☑
Finals ☐
PCM ☐ TEM ☐

Client AFRL/RRS, IFOCN Project # 13124-11
Site Address 150 Electronic Parkway
Site Description
Abatement Contractor AAA Environmental
Specified Clearance Level Less than 0.005
Observations/Comments

Lab ID	Field ID	Pump ID	Flow Rate (lpm) Start	Stop	Ave	Time Start	Stop	Total Min	Vol Liter	I WA	O WA	Sample Location
GAB-240-4			6.0	6.0	6.0	9:50	2:20	270	1620			OUTSIDE AIRLOCK
GAB-240-5			6.0	6.0	6.0	9:50	2:20	270	1620			@ CRITICAL #1
GAB-240-6			6.0	6.0	6.0	9:51	2:21	270	1620			@ CRITICAL #2
GAB-240-7			6.0	6.0	6.0	9:51	2:21	270	1620			NAU
GAB-240-8			—	—	—	—	—	—	—			BLANK

Air Technician Michael Johnson Signature Michael Johnson Date 10-28-03

Chain of Custody

Fax Results

Sent to the following lab for analysis GAB-240-4 To: GAB-240-8
Relinquished by Michael Johnson Greg Andrus Date/Time 10-28-03
Carrier Hand Deliver Number of Samples 5
Received By Matt Smith Date/Time 10/28/03 Accept ☒ Reject ☐
Results Transmitted By Date/Time
Fax ☐ Phone ☐ In Person ☐
Final Report Transmitted Date Tech. Contact/Pager #

PHASE CONTRAST MICROSCOPY
ANALYTICAL REPORT

LABELLA ASSOCIATES, P.C.
ANALYTICAL LABORATORY
300 STATE STREET
ROCHESTER, NY 14614
(585) 454-6110 FAX (585) 454-3066

LBL JOB# 61003

610

ELAP # 11184

CLIENT: Joseph C. Lu, Engin. & Land Surv. P.C.

CLIENT PROJECT # 13124-11

ADDRESS: 2230 Penfield Road
Penfield, New York 14526
Attn: Christine Davey

SAMPLE TYPE: Finals

SAMPLE DATE: 10/28/2003

PROJECT LOCATION: 150 Electronic Parkway

FIELD ID	LBL ID	VOL	F/mm	F/cc	I/OWA	SAMPLE LOCATION
GAB-240-9	610-1	1,200.0	9.8	**0.003**	IWA	
GAB-240-10	610-2	1,200.0	7.3	**0.002**	IWA	
GAB-240-11	610-3	1,200.0	6.1	**<0.002**	OWA	
GAB-240-12	610-4	1,200.0	4.9	**<0.002**	OWA	
GAB-240-13	610-5		<7			FIELD BLANK

NIOSH 7400 METHOD, OLYMPUS CH2 MICROSCOPE

(<) LESS THAN - INDICATES LOWER LIMIT OF DETECTION

LAB SUPERVISOR: Matt Smith DATE: 10/28/

SAMPLES NOT COLLECTED BY LBL. RESULTS ARE BASED UPON VALUES SUPPLIED BY THE CLIENT.

PHASE CONTRAST MIRCROSCOPY IS NOT SPECIFIC FOR ASBESTOS FIBERS

LABELLA
Engineering, Architecture and Surveying

LaBella Associates, P.C.
Analytical Laboratory
300 State Street
Rochester, New York 14614
(716) 454-6110 FAX 454-3066

AIR MONITORING FIELD DATA

LBL Job # 6100

BACKGROUND ☐
Pre-Abatement ☐
Work in Progress ☐
Finals ☑
PCM ☐ TEM ☐

Client AFRL/RDS IFOCY Project # 131241

Site Address 150 Electronic Parkway

Site Description

Abatement Contractor AAA Environmental

Specified Clearance Level Less than 0.005

Observations/Comments

Lab ID	Field ID	Pump ID	Flow Rate (lpm) Start	Stop	Ave	Time Start	Stop	Total Min	Vol Liter	I WA	O WA	Sample Location
	GAB-240-9		12.0	12.0	12.0	2:30	4:10	100	1200		1	
	GAB-240-10		12.0	12.0	12.0	2:30	4:10	100	1200		1	
	GAB-240-11		12.0	12.0	12.0	2:35	4:15	100	1200		1	
	GAB-240-12		12.0	12.0	12.0	2:35	4:15	100	1200		1	
	GAB-240-13		—	—	—	—	—	—	—			Blank

Air Technician Michael Johnson Signature Michael John Date 10-28-03

Chain of Custody

Sent to the following lab for analysis GAB-240-9 Fax Results To: GAB-240-13

Relinquished by Greg Andrus Date/Time 10-28-03

Carrier Hand Deliver Number of Samples 5

Received By M. Smith Date/Time 10/28/03 Accept ☑ Reject ☐

Results Transmitted By Date/Time

Fax ☐ Phone ☐ In Person ☐

Final Report Transmitted Date Tech. Contact/Pager #

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

NVLAP
NY ELAP
AIHA

No.1163 P. 1/1

Client:	Joseph C. Lu Engineering & Land Surveying, PC	**Job Name:**	RRS Percell Corrective Action	**Chain Of Custody:**	111661
Address:	2230 Penfield Road Penfield, New York 14526	**Job Location:**	Not Provided	**Date Analyzed:**	10/29/2003
		Job Number:	13124-11	**Person Submitting:**	Michael Johnson
Attention:	Greg Andrew	**P.O. Number:**	3437		

Summary of Transmission Electron Microscopy

Filter Type: MCE **Pore Size:** 0.8 um **Filter Size:** 25 mm (385 mm²)

AMA Sample Number	Client Sample Number	Volume (L)	Area Analyzed (mm²)	Analytical Sensitivity f/cc	Asbestos Type Amount	# Non Asbestos Structures	Concentration f/mm²	Concentration f/cc	Sample Type	Comments
0405788	GAB-240-14	1200	0.476	0.0007	0	0	<8	<0.0027	N/P	
0405789	GAB-240-15	0	0.000	****	****	****	****	****	BLK	Sample not analyzed

Analytical procedures used meet or exceed NIOSH 7402 protocols.

Robert Workman

Oct.29. 2003 5:07PM

is report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public s report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without p on us. Sample types, locations and collection protocols are based upon the information provided by the persons ting them and, unless collected by personnel of these Laboratories, we expressly disc any knowledge and liability for the accu and completeness of this information. Residual sample material will be discarded in ac with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP Accreditation applies only to poli t microscopy of bulk samples and transmission electron microscopy of AHERA air samp

An AIHA (#8863), NVLAP (# 101143)

ATTACHMENT 4

WASTE SAMPLING ANALYTICAL REPORT

HAZARDOUS MATERIALS CORRECTIVE ACTION
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

JANUARY 2004

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: B-240 RRS

Client Job No.: 13124-11

Lab Project No.: 03-3055

Sample Type: Water
Method: EPA 150.1

Date(s) Sampled: 11/07/2003
Date Received: 11/10/2003
Date Analyzed: 11/10/2003

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
10090	N/A	KATH-L-01	9.99
10092	N/A	SHAFT-L-01	7.14

ELAP ID No.: 10958

Comments:

RECEIVED
NOV 20 2003
LU ENGINEERS

Approved By: _____
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID:033055.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: B-240 RRS

Client Job No.: 13124-11

Lab Project No.: 03-3055

Sample Type: Solid
Method: SW846 9045(

Date(s) Sampled: 11/07/2003
Date Received: 11/10/2003
Date Analyzed: 11/10/2003

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
10091	N/A	KATH-S-01	10.01
10093	N/A	SHAFT-S-01	7.56

ELAP ID No.: 10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID:033055.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers
Client Job Site: B-240 RRS
Client Job No.: 13124-11
Field Location: KATH-L-01
Field ID No.: N/A

Lab Project No.: 03-3055
Lab Sample No.: 10090
Sample Type: Water
Date Sampled: 11/07/2003
Date Received: 11/10/2003

Laboratory Report for RCRA Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	11/12/2003	EPA 6010	<0.005
Barium	11/12/2003	EPA 6010	<0.020
Cadmium	11/12/2003	EPA 6010	0.012
Chromium	11/12/2003	EPA 6010	0.399
Lead	11/12/2003	EPA 6010	0.104
Mercury	11/14/2003	EPA 7470	0.0006
Selenium	11/12/2003	EPA 6010	<0.005
Silver	11/12/2003	EPA 6010	<0.010

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID:033055.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client:	Lu Engineers	**Lab Project No.:**	03-3055
Client Job Site:	B-240 RRS	**Lab Sample No.:**	10092
Client Job No.:	13124-11	**Sample Type:**	Water
Field Location:	SHAFT-L-01	**Date Sampled:**	11/07/2003
Field ID No.:	N/A	**Date Received:**	11/10/2003

Laboratory Report for RCRA Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	11/12/2003	EPA 6010	<0.005
Barium	11/12/2003	EPA 6010	0.089
Cadmium	11/12/2003	EPA 6010	0.006
Chromium	11/12/2003	EPA 6010	0.024
Lead	11/12/2003	EPA 6010	0.167
Mercury	11/14/2003	EPA 7470	0.0010
Selenium	11/12/2003	EPA 6010	<0.005
Silver	11/12/2003	EPA 6010	<0.010

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID:033055.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers
Client Job Site: B-240 RRS
Client Job No.: 13124-11
Field Location: KATH-S-01
Field ID No.: N/A

Lab Project No.: 03-3055
Lab Sample No.: 10091
Sample Type: TCLP Extract
Date Sampled: 11/07/2003
Date Received: 11/10/2003

Laboratory Report for TCLP Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)	Regulatory Limit (mg/L)
TCLP Metal Series				
Arsenic	11/12/2003	EPA 6010	<0.100	5.0
Barium	11/12/2003	EPA 6010	0.190	100.0
Cadmium	11/12/2003	EPA 6010	0.370	1.0
Chromium	11/12/2003	EPA 6010	0.075	5.0
Lead	11/12/2003	EPA 6010	<0.100	5.0
Mercury	11/14/2003	EPA 7470	<0.0020	0.2
Selenium	11/12/2003	EPA 6010	<0.100	1.0
Silver	11/12/2003	EPA 6010	<0.050	5.0

ELAP ID No.: 10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID:033055.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client:	Lu Engineers	**Lab Project No.:**	03-3055
Client Job Site:	B-240 RRS	**Lab Sample No.:**	10093
Client Job No.:	13124-11	**Sample Type:**	TCLP Extract
Field Location:	SHAFT-S-01	**Date Sampled:**	11/07/2003
Field ID No.:	N/A	**Date Received:**	11/10/2003

Laboratory Report for TCLP Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)	Regulatory Limit (mg/L)
TCLP Metal Series				
Arsenic	11/12/2003	EPA 6010	<0.100	5.0
Barium	11/12/2003	EPA 6010	0.330	100.0
dmium	11/12/2003	EPA 6010	0.040	1.0
Chromium	11/12/2003	EPA 6010	<0.050	5.0
Lead	11/12/2003	EPA 6010	<0.100	5.0
Mercury	11/14/2003	EPA 7470	<0.0020	0.2
Selenium	11/12/2003	EPA 6010	<0.100	1.0
Silver	11/12/2003	EPA 6010	<0.050	5.0

ELAP ID No.: 10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID:033055.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (B/N Fraction)

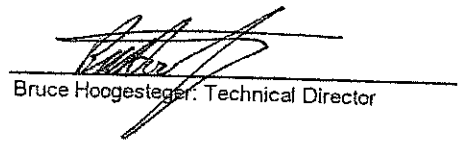
Client: Lu Engineers

Client Job Site:	B-240 RRS	**Lab Project Number:**	03-3055
		Lab Sample Number:	10090
Client Job Number:	13124-11		
Field Location:	Kath-L-01	**Date Sampled:**	11/07/2003
Field ID Number:	N/A	**Date Received:**	11/10/2003
Sample Type:	Water	**Date Analyzed:**	11/14/2003

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 1,000	Dibenz (a,h) anthracene	ND< 1,000
Anthracene	ND< 1,000	Fluoranthene	ND< 1,000
Benzo (a) anthracene	ND< 1,000	Fluorene	ND< 1,000
Benzo (a) pyrene	ND< 1,000	Indeno (1,2,3-cd) pyrene	ND< 1,000
Benzo (b) fluoranthene	ND< 1,000	Naphthalene	ND< 1,000
Benzo (g,h,i) perylene	ND< 1,000	Phenanthrene	ND< 1,000
Benzo (k) fluoranthene	ND< 1,000	Pyrene	ND< 1,000
Chrysene	ND< 1,000	Acenapthylene	ND< 1,000
Diethyl phthalate	ND< 1,000	1,2-Dichlorobenzene	ND< 1,000
Dimethyl phthalate	ND< 2,500	1,3-Dichlorobenzene	ND< 1,000
Butylbenzylphthalate	ND< 1,000	1,4-Dichlorobenzene	ND< 1,000
Di-n-butyl phthalate	ND< 1,000	1,2,4-Trichlorobenzene	ND< 1,000
Di-n-octylphthalate	ND< 1,000	Nitrobenzene	ND< 1,000
Bis (2-ethylhexyl) phthalate	ND< 1,000	2,4-Dinitrotoluene	ND< 1,000
2-Chloronaphthalene	ND< 1,000	2,6-Dinitrotoluene	ND< 1,000
Hexachlorobenzene	ND< 1,000	Bis (2-chloroethyl) ether	ND< 1,000
Hexachloroethane	ND< 1,000	Bis (2-chloroisopropyl) ether	ND< 1,000
Hexachlorocyclopentadiene	ND< 1,000	Bis (2-chloroethoxy) methane	ND< 1,000
Hexachlorobutadiene	ND< 1,000	4-Bromophenyl phenyl ether	ND< 1,000
N-Nitroso-di-n-propylamine	ND< 1,000	4-Chlorophenyl phenyl ether	ND< 1,000
N-Nitrosodiphenylamine	ND< 1,000	Benzidine	ND< 2,500
N-Nitrosodimethylamine	ND< 1,000	3,3'-Dichlorobenzidine	ND< 1,000
Isophorone	ND< 1,000	4-Chloroaniline	ND< 1,000
Benzyl alcohol	ND< 2,500	2-Nitroaniline	ND< 2,500
Dibenzofuran	ND< 1,000	3-Nitroaniline	ND< 2,500
2-Methylnapthalene	ND< 1,000	4-Nitroaniline	ND< 2,500

ELAP Number 10958 Method: EPA 8270C Data File: 13831.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter
Detection Limit elevated due to non-target compounds

Signature: 
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (B/N Fraction)

Client: Lu Engineers

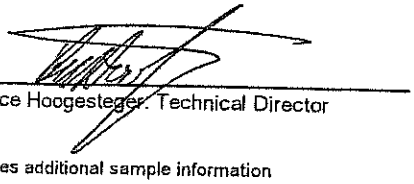
Client Job Site: B-240 RRS
Client Job Number: 13124-11
Field Location: Shaft-L-01
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 03-3055
Lab Sample Number: 10092
Date Sampled: 11/07/2003
Date Received: 11/10/2003
Date Analyzed: 11/18/2003

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 2,000	Dibenz (a,h) anthracene	ND< 2,000
Anthracene	ND< 2,000	Fluoranthene	ND< 2,000
Benzo (a) anthracene	ND< 2,000	Fluorene	ND< 2,000
Benzo (a) pyrene	ND< 2,000	Indeno (1,2,3-cd) pyrene	ND< 2,000
Benzo (b) fluoranthene	ND< 2,000	Naphthalene	ND< 2,000
Benzo (g,h,i) perylene	ND< 2,000	Phenanthrene	ND< 2,000
Benzo (k) fluoranthene	ND< 2,000	Pyrene	ND< 2,000
Chrysene	ND< 2,000	Acenapthylene	ND< 2,000
Diethyl phthalate	ND< 2,000	1,2-Dichlorobenzene	ND< 2,000
Dimethyl phthalate	ND< 5,000	1,3-Dichlorobenzene	ND< 2,000
Butylbenzylphthalate	ND< 2,000	1,4-Dichlorobenzene	ND< 2,000
Di-n-butyl phthalate	ND< 2,000	1,2,4-Trichlorobenzene	ND< 2,000
Di-n-octylphthalate	ND< 2,000	Nitrobenzene	ND< 2,000
Bis (2-ethylhexyl) phthalate	ND< 2,000	2,4-Dinitrotoluene	ND< 2,000
2-Chloronaphthalene	ND< 2,000	2,6-Dinitrotoluene	ND< 2,000
Hexachlorobenzene	ND< 2,000	Bis (2-chloroethyl) ether	ND< 2,000
Hexachloroethane	ND< 2,000	Bis (2-chloroisopropyl) ether	ND< 2,000
Hexachlorocyclopentadiene	ND< 2,000	Bis (2-chloroethoxy) methane	ND< 2,000
Hexachlorobutadiene	ND< 2,000	4-Bromophenyl phenyl ether	ND< 2,000
N-Nitroso-di-n-propylamine	ND< 2,000	4-Chlorophenyl phenyl ether	ND< 2,000
N-Nitrosodiphenylamine	ND< 2,000	Benzidine	ND< 5,000
N-Nitrosodimethylamine	ND< 2,000	3,3'-Dichlorobenzidine	ND< 2,000
Isophorone	ND< 2,000	4-Chloroaniline	ND< 2,000
Benzyl alcohol	ND< 5,000	2-Nitroaniline	ND< 5,000
Dibenzofuran	ND< 2,000	3-Nitroaniline	ND< 5,000
2-Methylnapthalene	ND< 2,000	4-Nitroaniline	ND< 5,000

ELAP Number 10958 Method: EPA 8270C Data File: 13851.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter
Detection Limit elevated due to non-target compounds

Signature: 
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 033055S4.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for TCLP Extract

Client: Lu Engineers

Client Job Site:	B-240 RRS	**Lab Project Number:**	03-3055
		Lab Sample Number:	10091
Client Job Number:	13124-11		
Field Location:	Kath-S-01	**Date Sampled:**	11/07/2003
Field ID Number:	N/A	**Date Received:**	11/10/2003
Sample Type:	TCLP Extract	**Date Analyzed:**	11/13/2003

Base / Neutrals	Results in ug / L	Regulatory Limits in ug / L
1,4-Dichlorobenzene	ND< 40.0	7,500
2,4-Dinitrotoluene	ND< 40.0	130
Hexachlorobenzene	ND< 40.0	3,000
Hexachlorobutadiene	ND< 40.0	500
Hexachloroethane	ND< 40.0	130
Nitrobenzene	ND< 40.0	2,000
Pyridine	ND< 40.0	5,000

Acids	Results in ug / L	Regulatory Limits in ug / L
Cresols (as m,p,o-Cresol)	ND< 80.0	200,000
Pentachlorophenol	ND< 100	100,000
2,4,5-Trichlorophenol	ND< 100	400,000
2,4,6-Trichlorophenol	ND< 40.0	2,000

ELAP Number 10958 Method: EPA 8270C Data File: 13784.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter
Sample exhibited low acid surrogate recoveries. Possible matrix interference.

Signature: _____
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 033055S1.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for TCLP Extract

Client: Lu Engineers

Client Job Site:	B-240 RRS	**Lab Project Number:**	03-3055
		Lab Sample Number:	10093
Client Job Number:	13124-11		
Field Location:	Shaft-S-01	**Date Sampled:**	11/07/2003
Field ID Number:	N/A	**Date Received:**	11/10/2003
Sample Type:	TCLP Extract	**Date Analyzed:**	11/13/2003

Base / Neutrals	Results in ug / L	Regulatory Limits in ug / L
1,4-Dichlorobenzene	ND< 40.0	7,500
2,4-Dinitrotoluene	ND< 40.0	130
Hexachlorobenzene	ND< 40.0	3,000
Hexachlorobutadiene	ND< 40.0	500
Hexachloroethane	ND< 40.0	130
Nitrobenzene	ND< 40.0	2,000
Pyridine	ND< 40.0	5,000

Acids	Results in ug / L	Regulatory Limits in ug / L
Cresols (as m,p,o-Cresol)	ND< 80.0	200,000
Pentachlorophenol	ND< 100	100,000
2,4,5-Trichlorophenol	ND< 100	400,000
2,4,6-Trichlorophenol	ND< 40.0	2,000

ELAP Number 10958 Method: EPA 8270C Data File: 13785.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	B-240 RRS	**Lab Project Number:**	03-3055
Client Job Number:	13124-11	**Lab Sample Number:**	10091
Field Location:	Kath-S-01	**Date Sampled:**	11/07/2003
Field ID Number:	N/A	**Date Received:**	11/10/2003
Sample Type:	Soil	**Date Analyzed:**	11/12/2003

PCB Identification	Results in mg / Kg
Aroclor 1016	ND< 0.406
Aroclor 1221	ND< 0.406
Aroclor 1232	ND< 0.406
Aroclor 1242	ND< 0.406
Aroclor 1248	ND< 0.406
Aroclor 1254	ND< 0.406
Aroclor 1260	ND< 0.406

ELAP Number 10958

Method: EPA 8082A

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 03305P1.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	B-240 RRS	**Lab Project Number:**	03-3055
Client Job Number:	13124-11	**Lab Sample Number:**	10093
Field Location:	Shaft-S-01	**Date Sampled:**	11/07/2003
Field ID Number:	N/A	**Date Received:**	11/10/2003
Sample Type:	Soil	**Date Analyzed:**	11/12/2003

PCB Identification	Results in mg / Kg
Aroclor 1016	ND< 0.972
Aroclor 1221	ND< 0.972
Aroclor 1232	ND< 0.972
Aroclor 1242	ND< 0.972
Aroclor 1248	ND< 0.972
Aroclor 1254	ND< 0.972
Aroclor 1260	3.35

ELAP Number 10958

Method: EPA 8082A

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 03305P2.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site: B-240 RRS
Client Job Number: 13124-11
Field Location: Kath-L-01
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 03-3055
Lab Sample Number: 10090

Date Sampled: 11/07/2003
Date Received: 11/10/2003
Date Analyzed: 11/17/2003

PCB Identification	Results in ug / L
Aroclor 1016	ND< 10.0
Aroclor 1221	ND< 10.0
Aroclor 1232	ND< 10.0
Aroclor 1242	ND< 10.0
Aroclor 1248	ND< 10.0
Aroclor 1254	ND< 10.0
Aroclor 1260	21.0

ELAP Number 10958

Method: EPA 8082A

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 03305P3.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site:	B-240 RRS	**Lab Project Number:**	03-3055
Client Job Number:	13124-11	**Lab Sample Number:**	10092
Field Location:	Shaft-L-01		
Field ID Number:	N/A	**Date Sampled:**	11/07/2003
Sample Type:	Water	**Date Received:**	11/10/2003
		Date Analyzed:	11/17/2003

PCB Identification	Results in ug / L
Aroclor 1016	ND< 10.0
Aroclor 1221	ND< 10.0
Aroclor 1232	ND< 10.0
Aroclor 1242	ND< 10.0
Aroclor 1248	ND< 10.0
Aroclor 1254	ND< 10.0
Aroclor 1260	81.4

ELAP Number 10958

Method: EPA 8082A

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 03305P4.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site: B-240 RRS
Client Job Number: 13124-11
Field Location: KATH-L-01
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 03-3055
Lab Sample Number: 10090

Date Sampled: 11/07/2003
Date Received: 11/10/2003
Date Analyzed: 11/13/2003

Halocarbons	Results in ug / L
Bromodichloromethane	ND< 200
Bromomethane	ND< 200
Bromoform	ND< 200
Carbon Tetrachloride	ND< 200
Chloroethane	ND< 200
Chloromethane	ND< 200
2-Chloroethyl vinyl Ether	ND< 200
Chloroform	ND< 200
Dibromochloromethane	ND< 200
1,1-Dichloroethane	ND< 200
1,2-Dichloroethane	ND< 200
1,1-Dichloroethene	ND< 200
cis-1,2-Dichloroethene	ND< 200
trans-1,2-Dichloroethene	ND< 200
1,2-Dichloropropane	ND< 200
cis-1,3-Dichloropropene	ND< 200
trans-1,3-Dichloropropene	ND< 200
Methylene chloride	ND< 500
1,1,2,2-Tetrachloroethane	ND< 200
Tetrachloroethene	ND< 200
1,1,1-Trichloroethane	ND< 200
1,1,2-Trichloroethane	ND< 200
Trichloroethene	ND< 200
Trichlorofluoromethane	ND< 200
Vinyl chloride	ND< 200

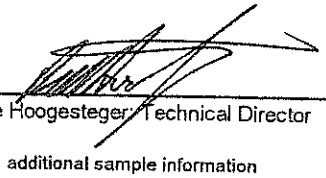
Aromatics	Results in ug / L
Benzene	ND< 70.0
Chlorobenzene	ND< 200
Ethylbenzene	426
Toluene	ND< 200
m,p-Xylene	831
o-Xylene	477
Styrene	ND< 200
1,2-Dichlorobenzene	ND< 200
1,3-Dichlorobenzene	ND< 200
1,4-Dichlorobenzene	ND< 200

Ketones	Results in ug / L
Acetone	ND< 1,000
2-Butanone	ND< 500
2-Hexanone	ND< 500
4-Methyl-2-pentanone	ND< 500

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 500
Vinyl acetate	ND< 500

ELAP Number 10958 Method: EPA 8260B Data File: 17422.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 033055V1.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site: B-240 RRS
Client Job Number: 13124-11
Field Location: SHAFT-L-01
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 03-3055
Lab Sample Number: 10092

Date Sampled: 11/07/2003
Date Received: 11/10/2003
Date Analyzed: 11/13/2003

Halocarbons	Results in ug / L
Bromodichloromethane	ND< 200
Bromomethane	ND< 200
Bromoform	ND< 200
Carbon Tetrachloride	ND< 200
Chloroethane	ND< 200
Chloromethane	ND< 200
2-Chloroethyl vinyl Ether	ND< 200
Chloroform	ND< 200
Dibromochloromethane	ND< 200
1,1-Dichloroethane	ND< 200
1,2-Dichloroethane	ND< 200
1,1-Dichloroethene	ND< 200
cis-1,2-Dichloroethene	ND< 200
trans-1,2-Dichloroethene	ND< 200
1,2-Dichloropropane	ND< 200
cis-1,3-Dichloropropene	ND< 200
trans-1,3-Dichloropropene	ND< 200
Methylene chloride	ND< 500
1,1,2,2-Tetrachloroethane	ND< 200
Tetrachloroethene	ND< 200
1,1,1-Trichloroethane	ND< 200
1,1,2-Trichloroethane	ND< 200
Trichloroethene	ND< 200
Trichlorofluoromethane	ND< 200
Vinyl chloride	ND< 200

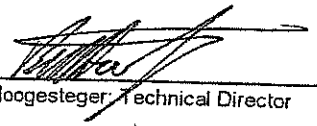
Aromatics	Results in ug / L
Benzene	ND< 70.0
Chlorobenzene	ND< 200
Ethylbenzene	ND< 200
Toluene	ND< 200
m,p-Xylene	282
o-Xylene	203
Styrene	ND< 200
1,2-Dichlorobenzene	ND< 200
1,3-Dichlorobenzene	ND< 200
1,4-Dichlorobenzene	ND< 200

Ketones	Results in ug / L
Acetone	ND< 1,000
2-Butanone	ND< 500
2-Hexanone	ND< 500
4-Methyl-2-pentanone	ND< 500

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 500
Vinyl acetate	ND< 500

ELAP Number 10958 Method: EPA 8260B Data File: 17425.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 033055V2.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for TCLP Extract

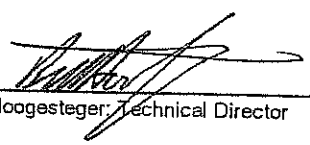
Client: Lu Engineers

Client Job Site:	B-240 RRS	**Lab Project Number:**	03-3055
		Lab Sample Number:	10091
Client Job Number:	13124-11		
Field Location:	KATH-S-01	**Date Sampled:**	11/07/2003
Field ID Number:	N/A	**Date Received:**	11/10/2003
Sample Type:	TCLP Extract	**Date Analyzed:**	11/13/2003

TCLP Analytes	Results in ug / L	Regulatory Limits in ug / L
Benzene	ND< 20.0	500
2-Butanone	ND< 50.0	200,000
Carbon Tetrachloride	ND< 20.0	500
Chlorobenzene	ND< 20.0	100,000
Chloroform	ND< 20.0	6,000
1,2-Dichloroethane	ND< 20.0	500
1,1-Dichloroethene	ND< 20.0	700
Tetrachloroethene	ND< 20.0	700
Trichloroethene	ND< 20.0	500
Vinyl chloride	ND< 20.0	200

ELAP Number 10958 Method: EPA 8260B Data File: 17426.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 033055V3.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for TCLP Extract

Client: Lu Engineers

Client Job Site: B-240 RRS
Client Job Number: 13124-11
Field Location: SHAFT-S-01
Field ID Number: N/A
Sample Type: TCLP Extract

Lab Project Number: 03-3055
Lab Sample Number: 10093

Date Sampled: 11/07/2003
Date Received: 11/10/2003
Date Analyzed: 11/13/2003

TCLP Analytes	Results in ug / L	Regulatory Limits in ug / L
Benzene	ND< 20.0	500
2-Butanone	ND< 50.0	200,000
Carbon Tetrachloride	ND< 20.0	500
Chlorobenzene	ND< 20.0	100,000
Chloroform	ND< 20.0	6,000
1,2-Dichloroethane	ND< 20.0	500
1,1-Dichloroethene	ND< 20.0	700
Tetrachloroethene	ND< 20.0	700
Trichloroethene	ND< 20.0	500
Vinyl chloride	ND< 20.0	200

ELAP Number 10958 | Method: EPA 8260B | Data File: 17427.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 033055V4.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:

COMPANY:
ADDRESS:
CITY: STATE: ZIP:
PHONE: FAX:
ATTN:
COMMENTS:

INVOICE TO:

COMPANY:
ADDRESS:
CITY: STATE: ZIP:
PHONE: FAX:
ATTN:

LAB PROJECT #:
CLIENT PROJECT #:

PROJECT NAME/SITE NAME:

TURNAROUND TIME: (WORKING DAYS)

☐ 1 ☐ 2 ☐ 3 ☐ STD 5 ☐ OTHER

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS										REMARKS	PARADIGM LAB SAMPLE NUMBER
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation:

CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐

Sampled By: Date/Time:

Relinquished By: Date/Time:

Received By: Date/Time:

Relinquished By: Date/Time:

Received By: Date/Time:

Received @ Lab By: Date/Time:

Total Cost:

P.I.F.

ATTACHMENT 5

NON-HAZARDOUS WASTE DISPOSAL DOCUMENTATION

HAZARDOUS MATERIALS CORRECTIVE ACTION
PARCEL 1
ROME RESEARCH SITE
ROME, NEW YORK

JANUARY 2004

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

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1 of 1

3. Generator's Name and Mailing Address: Air Force Research Laboratory
32 Brooks Road-Bldg.240
Rome NY 13411

32 Brooks Road -Bl. .40
Rome, NY 13411

4. Generator's Phone (315 B30-2098

5. Transporter 1 Company Name: Hazmat Environmental Group Inc.

6. US EPA ID Number: N Y D 9 8 0 7 6 9 9 4 7

A. Transporter's Phone: (716) 827-720(

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address:
CWM Chemical Services, LLC
1550 Balmer Road
Model City NY 14107

10. US EPA ID Number: N Y D 0 4 9 8 3 6 6 7 9

C. Facility's Phone: (716) 754-8231

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vo
a. Non-regulated Washwater KATH-L-01/Shaft-L-01		D M		P
b. Non-regulated Miscellaneous Solids		D M		P
c.				
d.				

D. Additional Descriptions for Materials Listed Above
a. c.
b. d.

E. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information

WTS#11729 SR#

a. CW7490
b. CW7491

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name | Signature | Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month Day Year

GENERATOR

TRANSPORTER

FACILITY

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

ORIGINAL – RETURN TO GENERATOR

WASTE MANAGEMENT

CWM Chemical Services, LLC
1550 Balmer Road
Model City, NY 14107
(716) 754-8231
(716) 754-0211Fax

January 15, 2004

Mr. Gregory Andros
Air Force Research Laboratory
32 Brooks Rd-Bldg 240
Rome, NY 13441-4119

Mr. Gregory Andros,

This letter will service to inform you that Waste Management, Inc has all the appropriate permits and licenses for, and will accept, your waste that has been characterized on Generators Waste Profile Sheets and identified by profile number MDCCW7490 (Washwater).

Sincerely,

Eileen M. Carbone
Customer Service/Inside Sales Representative

WASTE MANAGEMENT

CWM Chemical Services, LLC
1550 Balmer Road
Model City, NY 14107
(716) 754-8231
(716) 754-0211Fax

January 15, 2004

Mr. Gregory Andros
Air Force Research Lab
32 Brooks Rd-Bldg 240
Rome, NY 13441-4119

Dear Mr. Andros,

This letter will service to inform you that Waste Management, Inc has all the appropriate permits and licenses for, and will accept, your waste that has been characterized on Generators Waste Profile Sheets and identified by profile number MDCCW7491(Misc. Solids).

Sincerely,

Eileen M. Carbone
Customer Service/Inside Sales Representative

Appendix A3
AF GRADE System

copied from: Asbestos Identification Survey
for
Griffiss AFB, Rome, New York
contract F44650-94-D-0003
order 5003
Galson Project Number R4-001
march, 1995

Galson Corporation
6601 Kirkville Road.
East Syracuse, N.Y. 13057
Tel: (315) 432-0506
Fax: (315) 437-0509.

Atch 2

Definitions for Air Force GRADE Ranking Factors

The definitions for the Air Force GRADE ranking factors are presented herein.

Air Force GRADE ranking definitions were used as required in the SOW. Each category was evaluated independently of others. AF GRADE rankings and the corresponding definitions are discussed below. Also included are Galson's interpretations where applicable.

Part 1: System Ranking Data

The parameters grouped in Part 1 are specific to each suspect material being evaluated. They include:

Physical Damage: Assess damage based on visible evidence of work surface accumulation of the condition of the sprayed/trowelled-on surface materials.

5	High. Dislodged pieces are evident on work surfaces.
4	Moderate. There is evidence of visible material fallout.
2	Low. There is some evidence of material fallout.
1	Minimal. There are isolated and very small areas of materials damage or fallout.
0	None. No damage or evidence of any material fallout.

Comments: No further interpretation needed.

Water Damage:

3	Yes. Visible water damage.
0	No. No water damage.

Comments: No further interpretation needed.

Proximity: to items for repair. If both A and B apply, score the one with the highest rating. (Check all that apply. Maximum of 3 points) How far is the material from routine maintenance areas?

A. **Sprayed or Trowelled-on:** Could the material be damaged by routine maintenance (as indicated by the distance of the routine maintenance to the suspect material)?

3	Less than 1 ft. or a ceiling panel contaminated with ACM must be removed.
2	1 to 5 ft.
1	Greater than 5 ft.
0	Greater than 5 ft. and no routine maintenance.

B. **Pipe, Boiler, or Duct Insulation:** Could damage occur as a result of routine maintenance?

3	A ceiling panel contaminated with ACM must be removed.
1	Yes.
0	No.

Comments: "proximity" calls for evaluation in either category A (sprayed-on and trowelled-on ACM) or category B (pipe, boiler, and duct insulation during routine maintenance) when they are present in a space.

This information is meaningful if the rated material contains asbestos; however, if the material is non-asbestos and a material rating is provided, the "proximity" value would be erroneously elevated based upon both ACM and non-asbestos materials. Since the asbestos content of the rated materials could only be verified after laboratory results were received, data was reported only for the material identified in the sample identification column rather all suspect materials.

Whenever materials were present or were not evaluated, "0" was entered in these data boxes.

Potential Contact: by occupants. How far is the friable sprayed-on, trowelled-on, or damaged material from the heads of room/area occupants, regardless of whether there is a barrier?

If less than 10 feet:		If greater than 10 feet:	
8	High	5	High
5	Medium	3	Medium
2	Low	0	Low

Comments: An AF GRADE score of "0" was used, regardless of height, for some materials that were inaccessible behind solid, fixed barriers.

Barriers: If both A and B apply, score the one with the highest rating. Check all that apply. (Maximum of 4 points.)

A. Refers to sprayed or trowelled-on material on ceiling or walls.

1	Suspended ceiling.
2	Encapsulation.
3	Railing or chicken wire.
4	None.

B. **Pipe, boiler, duct, or other surface/damaged materials.** Percent of total exposed and visible to the occupants.

1 Less than 25%.
2 25% to less than 50%.
3 50% to less than 75%.
4 75% to 100%.

Comments: This information is meaningful if the rated material contains asbestos; however, if the material is non-asbestos and a material rating is provided, the "barriers" value would be erroneously elevated based upon both ACM and non-asbestos materials. The asbestos content of the rated materials could only be verified after laboratory results were received; therefore, data was only recorded for the material identified in the sample identification column rather than all sampled materials.

Whenever materials were present or were not evaluated, "0" was entered in these data boxes.

Friable: Defined by EPA: "hand pressure can crumble, pulverize, or reduce to powder when dry." Score the friability of the surface/damaged material.

6 High. Material is fluffy and/or the slightest hand pressure can dislodge it. A slight breeze may disperse the material.
3 Moderate. Material can be dislodged or scraped/crumbled by hand.
1 Low. Material is firmly bound, difficult to scrape off by hand.

Comments: Galson assigned materials standard friability ratings of 0, 1, 3, or 6 for this project as follows:

0 vinyl asbestos floor tile (VAT), asbestos cement (transite), sheetrock wall, plaster wall.
1 asbestos cloth, aircell.
3 preformed, troweled-on, wet-packed, cementitious fireproofing, textured acoustic.
6 fluffy fireproofing, blown-in attic insulation, debris.

AF GRADE damage and exposure scores do not account for non-friable ACM. A rating of "0" was used for all non-friable materials.

The Health Hazard (Risk) Assessment is for sprayed-on, trowelled-on, and damaged friable materials. All non-friable ACM with a friability of "0" also received scores of "0" for System Ranking Data and Space Ranking Data.

Amount: Area or Amount of visible surface/damaged friable material.

0 Less than 10 sq. ft.
1 10 sq. ft. to 100 sq. ft.
2 More than 100 sq. ft. to 1000 sq. ft.
3 Greater than 1000 sq. ft.

Comments: The quantity of suspect exposed ACM in lineal feet or square feet was reported.

Galson surveyors only reported exposed material. A material was not classified as exposed if it was encapsulated, covered with a layer of paint (such as painted ceiling tiles and painted textured acoustical treatments), or covered with an intact canvas layer (such piping or boiler insulation).

Type of Material: If area/room contains numerous categories of material, score the friable material with the largest area. Check all other categories that are found.

0 to 4	Other friable material.
1	Boiler and/or pipe.
3	HVAC. Suspected ACM on exterior of ducts.
4	Ceilings or walls.

Comments: As discussed for "Proximity", only the score for the material identified by the sample identification was recorded.

Part II: Space Ranking Data

The parameters included in Part II are those room or environmental factors that apply to the material being evaluated.

Walls: Refers to the ability of the walls to hold fibers for re-entrainment. If more than one type, score the roughest. If the wall material is exposed friable asbestos, score as rough.

4	Rough. Difficult to clean with a HEPA vacuum.
3	Pitted. Difficult to clean with a damp cloth but cleanable with a HEPA vacuum.
2	Moderate. Can be cleaned with a damp cloth.

Comments: No further interpretation needed.

Floor:

4	Carpet or an extremely rough surface difficult to clean by HEPA vacuum or by a damp cloth.
2	Seamed or rough surface (e.g., uncoated concrete).
1	Smooth continuous surface (e.g., finished or coated concrete, smoothly joined tile, etc.).

Comments: No further interpretation needed.

Ventilation: Check all categories that apply. (Maximum 7 points)

5	The interior of the supply duct/plenum is coated/littered with friable material or is within 5 feet of a supply diffuser or fan and the condition of the material may result in fibers being entrained into the airflow.
2	The interior of the return air duct/plenum is coated/littered with friable material and is part of a recirculating system.
1	Air being supplied to the room/cell is: (1) drawn from an area where the potential for asbestos fiber release is possible, or (2) part of a recirculating system where fibers may be drawn into the system.
0	None of the above applies.

Comments: No further interpretation needed.

Air Movement: This refers to the general air movement in the room/area that may affect the friable surface/damaged material.

5	Material is subjected to routine turbulent or abrupt air movement.
2	Material is exposed to perceptible or occasional air stream.
0	No perceptible air flow in the room/area.

Comments: No further interpretation needed.

Activity:

5	High. Friable or surface/damaged material is subject to constant vibration (mechanical rooms).
2	Medium. Occasional vibration (a warehouse where forklifts are used, next to an active runway, kitchen).
0	Low. Administrative office, library, classroom, storage room, stairway or corridor, waiting room, etc.

Comments: The AF GRADE system classified activity as High, Medium, and Low, and specific room types were associated with each classification. The room type information was used for clarification rather than a fixed rating for the identified spaces (mechanical room, warehouse, kitchen, office, etc.). Unique characteristics of each space were used to score the room.

Population (Occup/Day): Define the average occupance and outside visitor traffic (do not count visitors from within the building) of a room/area based on an 8-hour day exposure.

1 Less than 9 or corridors.
2 10 to 100.
3 201 to 200.
4 501 to 1000.
5 Greater than 1001 or medical facilities, youth center, child care facilities or residential buildings regardless of the population.

Comments: No further interpretation needed.

Asbestos Content: Use the percentage for the material that has the highest probability of becoming airborne.

1 1% to 30%.
3 Greater than 30% to 50%.
5 Greater than 50%.

No Hazard: Calculation of AF Priority value defaults to 8 for all bulk samples from the friable surface/damaged material(s) indicating <1% asbestos.

Part III: Grade Priority Definitions

Priority 1: It is ACC policy that the material be inspected and then the base asbestos manager and Bioenvironmental should decide on whether removal is necessary.

Priority 2: Remove as soon as possible.

Priority 3: Planned removal.

Priority 4: Repair.

Priority 5: Monitor.

Priority 6: No immediate action.

Priority 7: Contains only non-friable ACM.

Priority 8: Contains no ACM.

Note: Definitions taken from the "Air Force Asbestos Guidance for Rating and Assessing Damage and Exposure - USAF OEHL Report 86-072EH0021HGA."

Appendix A7
Galson GRADE Priority Calculation Method

copied from: Asbestos Identification Survey
for
Griffiss AFB, Rome, New York
Contract F44650-94-D-0003
order 5003
Galson Project Number R4-001
March, 1995

Galson Corporation
6601 Kirkville Road
East Syracuse, N.Y. 13057
Tel: (315) 432-0506
Fax: (315) 437-0509

Material Priorities

The pcV3© system has been developed with the ability to determine asbestos building material priorities based on the Air Force GRADE System algorithm. The formal definition of this algorithm is limited to defining individual material priorities for friable asbestos containing materials based on the combination of 15 separate factors[1]. These factors are listed below:

pcV3© Ranking Factor		Description
Material related factors:		
RF1	Physical Damage	
RF2	Water Damage	
RF3	Proximity to Occupants	
RF4	Potential Contact from Occupants	
RF5	Friability	
RF6	Friable Material Area	
Lookup from system ID		AF Material Type
RF15	Asbestos Content	
Space related factors:		
RF7	Wall Porosity	
RF8	Ventilation	
RF9	Air Movement	
RF10	Activity	
RF11	Floor Porosity	
RF12	Barriers	
RF13	Population	

These factors are rated for each material observation and are combined into an exposure and damage score using the equation shown below:

Damage = physical + water + proximity + matl type + potential contact + asbestos content.

Damage = rf1 + rf2 + rf3 + air force material type + rf4 + rf15

Exposure = friability + friable matl. area + wall porosity vent. + air + activity + flr. porosity + population

Exposure = rf5 + rf6 + rf7 + rf8 + rf9 +rf10 +rf11 + rf12 +rf13

---

[1] We have extended the definition as shown to include non-friable and non-asbestos materials.

Then the exposure and damage scores are combined to develop a risk score using the equation shown below:

*Risk = 12.0324 - (0.1683 * damage) - (0.1693 * exposure)*

This risk score is then converted to a priority according to the following table.

Exposure is greater than:	Exposure is less than:	Priority is equal to:
0	6	1
6	7	2
7	8	3
8	9	4
9	10	5
10	12.0324	6
Non-friable asbestos		7
Non-asbestos		8

Space Priorities

Now, once all the materials within a space have been assigned ranking factors and priorities, the overall space priority is determined by combining the material ranking factors for all the individual materials in the following fashion.

- If all the materials in the space are non-asbestos, the space priority is assigned an 8.
- If all the asbestos containing materials in the space are non-friable, then the space priority is assigned a 7.

Otherwise space ranking factors are determined as follows:

Space Damage (SRF1) =	worst case physical damage of any material in the space.
Space Water Damage (SRF2) =	worst case water damage of any material in the space.
Space Proximity (SRF3) =	worst case proximity of any material in the space
Space Material Type =	Material type of material with highest quantity found in the space.
Space potential contact (SRF4)=	worst case potential contact of any material in the space.
Space asbestos content =	the asbestos content of the material with the highest value of the combination of the following factors:

RF1 - Physical Damage
RF2 - Water Damage
RF5 - Friability
RF6 - Friable Material Area
RF8 - Ventilation
RF9 - Air Movement
RF12 - Barrier

Space Friability (SRF5)=	worst case friability of any material in the space.
Space Friable Material Area (SRF6)	is determined by first converting the friable material area score back into a friable material area for each material in the space by assuming the maximum area allowed by the score (i.e., if a material's RF6 = 1 then the friable material area was set to 10. If the material's RF6 was = 2, the friable material areas was set to 100). Once all the materials are converted back into areas, the areas are summed up and converted back into an appropriate score for the cumulative area.
Space related ranking factors	are all identical for all materials in the space so any material in the space has the appropriate space related ranking factors.

These newly calculated ranking factors are combined using the identical equations for the individual material scores to determine a space damage, space exposure, and finally a space risk score. The space risk score is then used to look up a space priority using the same table used for material priorities.

Using this approach, even though a space may contain no Priority 1 materials, it may indeed be ranked as a Priority 1 space due to the combination of the materials observed.

Building Priorities

Building priorities are calculated by determining the highest priority (lowest number) space within the building.

This approach was formulated to most accurately expand the intention of the Air Force GRADE Priority system to evaluate and compare spaces and buildings as well as non-friable materials. It is important though to rely not only on the calculated priorities, but also non-quantifiable factors when developing the day to day asbestos management plan for the facility. The pcV3© system can only provide the analytical and survey related information and does not take into account changing environmental, functional, or occupational conditions.

ASBESTOS CLEARANCE CERTIFICATE

FINDING

An on-site survey has been conducted for the excess real property described below. The results are detailed below:

1. The asbestos survey was conducted in 1995 and it used detailed location descriptions (structure, floor, room, description & specific location of material) rather than diagrams to identify locations of suspected asbestos-containing materials. Therefore, no diagrams are provided.
2. Types and detailed descriptions of materials are found at attachment 1 of this certification and attachment H of the referenced EBS under "Comments".
3. Priority categories 1 through 8 were used to identify the asbestos condition. Priority codes descriptions are found at attachment 2 of this certification.
4. The current condition of asbestos containing materials was confirmed as part of the Environmental Baseline Survey conducted in 2000.
5. At the completion of the Phase II Environmental Baseline Survey in 2003 all friable asbestos was confirmed to have been encapsulated or removed. Should any asbestos materials become damaged while the property is being vacated and prior to being relinquished to AFRPA, the installation will abate the friable asbestos by encapsulation or removal.
6. The presence and condition of asbestos in the structure being excessed meets all Air Force, federal, state, and local laws and regulations. Therefore, the disposal of the below described property can be accomplished.
7. Description/name of area being excessed is as follows:

AFRL/RRS Parcel #1 Building 247

Certified by: Bruce H. Mero
Bruce H. Mero REM
Chief Environmental, Safety
and Occupational Health Office

Approved by: Daniel C. Bollana
Daniel C. Bollana PE
Chairman Environmental,Safety
and Occupational Health
Council

Date: 12 FEB 2004

Date: 12 FEB 2004

Reference: 2004, Lu Engineers, *Environmental Baseline Survey, Rome Research Site Parcel 1, Griffiss Business and Technology Park, Rome, Oneida County, New York*

S P A C E D E T A I L R E P O R T

Plant: GRIF Site NEW
Building: 247 ADMINISTRATIVE

System ID: BCA01
Cycle: GY336GR

Space ID	Material ID	Quant.	Priority	Lab Rslt	Comments
VAULT2	Floor:01 Computer Room	2600 sqft	2		
	001 Wall - Sheetrock	280 sqft	3	Positive	
	002 Mastic Floor	650 sqft		Tr/Incon.	Used On Supports For Raised Computer Floor.
	AAA Ceiling Tile - Lay In	2600 sqft	2	Assmd Pos.	2' X 4' White Fissured Pattern.
	AAA Vinyl Composite Tile Floor	300 sqft	7	Assmd Pos.	Below Raised Computer Floor: 9" X 9" Green Or 9" X 9" Gray.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Foam Rubber, Non-asbestos Containing Material.
	NNN Wall - Sheetrock	-		Assmd Neg.	Ultra-wall/untaped Sheetrock, Non-asbestos Containing Material.
	NNN Duct	-		Assmd Neg.	Foam Rubber, Non-asbestos Containing Material.
	NNN Floor Material - Generic	-		Assmd Neg.	Various Types Of Non-asbestos Containing Raised Computer Floor.
EXT	Floor:0X Exterior	2700 sqft	8		No Suspected Asbestos Containing Material In Space.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Foam Rubber, Non-asbestos Containing Material.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Under Metal Jacket.
	NNN Fitting (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
HALL1	Floor:01 Hallway Or Stairs	444 sqft	1		Space Above Ceiling Was Partially Inaccessible.
	001 Ceiling - Sheetrock	444 sqft	3	Positive	
	AAA Vinyl Composite Tile Floor	444 sqft	7	Assmd Pos.	9" X 9" Green; 9" X 9" Brown; 9" X 9" White.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.
	NNN Wall - Sheetrock	-		Assmd Neg.	Ultra-wall/untaped Sheetrock, Non-asbestos Containing Material.

atch 1

SPACE DETAIL REPORT

System ID: 8CA01
Cycle: GY336GR

Plant: GRIF Site NEW
Building: 247 ADMINISTRATIVE

Space ID	Material ID	Quant.	Priority	Lab Rslt	Comments
HRLL2	Floor:01 Hallway Or Stairs	312 sqft	2		
	001 Wall - Sheetrock	830 sqft	2	Positive	
	AAA Vinyl Composite Tile Floor	312 sqft	7	Assmd Pos.	12" X 12" White.
	NNN Batt Insulation Material	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.
	NNN Ceiling Tile - Lay In	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
LAB1	Floor:01 Laboratory	750 sqft	1		Interior Of Doors May Be Insulated, Unable To Confirm.
	001 Wall - Sheetrock	856 sqft	2	Positive	Partially Above Ceiling.
	003 Floor Material - Generic	750 sqft		Negative	Non-stick Poured Floor, Pink.
	004 Duct	265 sqft		Negative	White Canvas Over Fiberglass. Above Ceiling.
	005 Domestic Water Fitting Insulatio	12 ftgs		Negative	Mud Fittings On Fiberglass Line. Above Ceiling.
	AAA Ceiling Tile - Lay In	750 sqft	2	Assmd Pos.	2' X 4' White Fissured Pattern.
	NNN Wall - Sheetrock	-		Assmd Neg.	Ultra-Wall/untaped Sheetrock, Non-asbestos Containing Material.
	NNN Duct	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Partially Above Ceiling.
	NNN Fitting (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Partially Above Ceiling.
LAB2	Floor:01 Laboratory	1400 sqft	1		Interior Of Doors May Be Insulated, Unable To Confirm.
	001 Wall - Sheetrock	264 sqft	2	Positive	
	001 Ceiling - Sheetrock	254 sqft	3	Positive	Wall And Ceiling Material Considered Identical.
	003 Floor Material - Generic	1200 sqft		Negative	Non-stick Poured Floor, Pink.
	004 Duct	460 sqft		Negative	White Canvas Over Fiberglass. Above

SPACE DETAIL REPORT

Plant: GRIF Site NEW
Building: 247 ADMINISTRATIVE

System ID: BCA01
Cycle: GY336GR

Space ID	Material ID	Quant.	Priority	Lab Rslt	Comments
					Ceiling.
	005 Domestic Water Fitting Insulatio	8 ftgs		Negative	Mud Fittings On Fiberglass Line. Above Ceiling.
	AAA Ceiling Tile - Lay In	1300 sqft	2	Assmd Pos.	2' X 4' White Fissured Pattern.
	AAA Wall - Unspecified Type	1800 sqft	3	Assmd Pos.	Interior Of Metal Wall Appeared To Be Insulated With Honeycombed Paper, Unable To Sample.
	NNN Wall - Sheetrock	-		Assmd Neg.	Ultra-wall/untaped Sheetrock, Non-asbestos Containing Material.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.
	NNN Duct	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.
	NNN Batt Insulation Material	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.
	NNN Fitting (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Foam Rubber, Non-asbestos Containing Material.
COOLER	Floor:01 Misc. Use Room	572 sqft	8		Space Above Ceiling Was Partially Inaccessible.
	004 Duct	350 sqft		Negative	White Canvas Over Fiberglass. Above Ceiling.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Foam Rubber, Non-asbestos Containing Material.
MECH1	Floor:01 Mechanical Room	442 sqft	2		Interior Of Doors May Be Insulated, Unable To Confirm.
	004 Duct	100 sqft		Negative	White Canvas Over Fiberglass.
	007 Domestic Water Fitting Insulatio	16 ftgs		Negative	Mud Fittings On Fiberglass Line.
	008 Piping - Heating Hot Water	80 ft		Negative	Canvas And Foil Over Fiberglass.
	009 Fitting - Heating Hot Water	35 ftgs		Negative	Mud Fittings On Fiberglass Line.

SPACE DETAIL REPORT

Plant: GRIF Site NEW
Building: 247 ADMINISTRATIVE

System ID: BCA01
Cycle: GY336GR

Space ID	Material ID	Quant.	Priority	Lab Rslt	Comments
	010 Piping - Steam	45 ft	2	Positive	
	011 Fitting - Steam	12 ftgs	2	Positive	
	016 Mech Equip. - Heat Exchanger	17 sqft	2	Positive	
	NNN Duct	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Foam Rubber, Non-asbestos Containing Material.
	NNN Hvac - Flexible Duct/flex Duct J	-		Assmd Neg.	Rubber/vinyl Material.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
	NNN Fitting (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
MECH2	Floor:01 Mechanical Room	336 sqft	1		Interior Of Doors May Be Insulated, Unable To Confirm. Electrical Panels In Space May Be Asbestos Containing, Unable To Survey Due To High Voltage.
	006 Domestic Water Fitting Insulatio	10 ftgs		Trace	Mud Fittings On Fiberglass Line.
	010 Piping - Steam	22 ft	2	Positive	
	010 Piping - Steam	7 ft	1	Positive	
	011 Fitting - Steam	4 ftgs	2	Positive	
	011 Fitting - Steam	3 ftgs	2	Positive	
	012 Piping - Steam	14 ft	2	Positive	White Canvas Over Fiberglass.
	013 Fitting - Steam	7 ftgs	1	Positive	Mud Fittings On Fiberglass Line.
	014 Piping - Steam	85 ft		Negative	Tar Foil Over Fiberglass.
	015 Fitting - Steam	40 ftgs		Negative	Mud Fittings On Fiberglass Line.
	AAA Hvac - Flexible Duct/flex Duct J	24 sqft	2	Assmd Pos.	Canvas-like Material.
	AAA Wall - Unspecified Type	288 sqft	2	Assmd Pos.	Interior Of Metal Wall Appeared To Be Insulated With Honeycombed Paper, Unable To Sample.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Foam Rubber, Non-asbestos Containing Material.
	NNN Fitting (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
	NNN Batt Insulation Material	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Behind Wall.

S P A C E D E T A I L R E P O R T

Plant: GRIF Site NEW
Building: 247 ADMINISTRATIVE

System ID: BCA01
Cycle: GY336GR

Space ID	Material ID	Quant.	Priority	Lab Rslt	Comments
	NNN Duct	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
OFF	Floor:01 Office	3400 sqft	1		Interior Of Doors May Be Insulated, Unable To Confirm. Electrical Panels In Space May Be Asbestos Containing, Unable To Survey Due To High Voltage.
	001 Wall - Sheetrock	1200 sqft	2	Positive	
	002 Mastic Floor	850 sqft		Tr/Incon.	Used On Supports For Raised Computer Floor.
	004 Duct	330 sqft		Negative	White Canvas Over Fiberglass. Above Ceiling.
	010 Piping - Steam	34 ft	2	Positive	Partially Above Ceiling And Below Floor.
	011 Fitting - Steam	2 ftgs	3	Positive	Partially Above Ceiling And Below Floor.
	012 Piping - Steam	34 ft	3	Positive	Partially Above Ceiling And Below Floor. White Canvas Over Fiberglass.
	013 Fitting - Steam	2 ftgs	3	Positive	Partially Above Ceiling And Below Floor. Mud Fittings On Fiberglass Line.
	014 Piping - Steam	34 ft		Negative	Tar Foil Over Fiberglass. Partially Above Ceiling And Below Floor.
	015 Fitting - Steam	2 ftgs		Negative	Mud Fittings On Fiberglass Line. Partially Above Ceiling And Below Floor.
	AAA Ceiling Tile - Lay In	1700 sqft	1	Assmd Pos.	2' X 4' White Fissured Pattern.
	AAA Ceiling Tile - Lay In	1700 sqft	1	Assmd Pos.	2' X 2' White Fissured Pattern.
	AAA Wall - Unspecified Type	1300 sqft	3	Assmd Pos.	Interior Of Metal Wall Appeared To Be Insulated With Honeycombed Paper, Unable To Sample.
	AAA Vinyl Composite Tile Floor	280 sqft	7	Assmd Pos.	9" X 9" Green; 9" X 9" Brown; 9" X 9" White.
	NNN Floor Material - Generic	-		Assmd Neg.	Various Types Of Non-asbestos Containing Raised Computer Floor.
	NNN Wall - Sheetrock	-		Assmd Neg.	Ultra-wall/untaped Sheetrock, Non-asbestos Containing Material.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.

Plant: GRIF Site NEW
Building: 247 ADMINISTRATIVE

System ID: BCA01
Cycle: GY336GR

Space ID	Material ID	Quant.	Priority	Lab Rslt	Comments
					Above Ceiling.
	NNN Batt Insulation Material	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.
	NNN Duct	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.
	NNN Hvac - Flexible Duct/flex Duct J	-		Assmd Neg.	Non-asbestos Containing Green Canvas. Above Ceiling.
	NNN Fitting (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.
VAULT1	Floor:01 Office	2200 sqft	1		Interior Of Doors May Be Insulated, Unable To Confirm.
	001 Ceiling - Sheetrock	20 sqft	3	Positive	Wall And Ceiling Material Considered Identical.
	001 Wall - Sheetrock	140 sqft	2	Positive	
	AAA Vinyl Composite Tile Floor	2200 sqft	7	Assmd Pos.	Below Raised Computer Floor: 9" X 9" Green Or 9" X 9" Gray. Partially Under Carpet.
	AAA Ceiling Tile - Lay In	2200 sqft	2	Assmd Pos.	2' X 4' White Fissured Pattern.
	NNN Floor Material - Generic	-		Assmd Neg.	Various Types Of Non-asbestos Containing Raised Computer Floor.
	NNN Wall - Sheetrock	-		Assmd Neg.	Ultra-wall/untaped Sheetrock, Non-asbestos Containing Material.
ROOF2	Floor:1R Roof	540 sqft	7		
	AAA Asphalt And Gravel	540 sqft	7	Assmd Pos.	
ROOF6	Floor:1R Roof	312 sqft	7		
	AAA Asphalt And Gravel	312 sqft	7	Assmd Pos.	
ROOF1	Floor:2R Roof	2900 sqft	7		
	AAA Asphalt And Gravel	2900 sqft	7	Assmd Pos.	

S P A C E D E T A I L R E P O R T

Plant: GRIF Site NEW
Building: 247 ADMINISTRATIVE

System ID: BCA01
Cycle: GY336GR

Space ID	Material ID	Quant.	Priority	Lab Rslt	Comments
ROOF4	Floor:2R Roof	2600 sqft	7		
	AAA Asphalt And Gravel	2600 sqft	7	Assmd Pos.	
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
	NNN Fitting (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
	NNN Duct	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
ROOF3	Floor:3R Roof	1300 sqft	7		
	AAA Asphalt And Gravel	1300 sqft	7	Assmd Pos.	
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
	NNN Fitting (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
	NNN Duct	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
ROOF5	Floor:4R Roof	5200 sqft	8		No Suspected Asbestos Containing Material In Space.

Appendix A3
AF GRADE System

copied from: Asbestos Identification Survey
for
Griffiss AFB, Rome, New York
contract F44650-94-D-0003
order 5003
Golson Project Number R4-001
march, 1995

Golson Corporation
6601 Kirkville Road.
East Syracuse, N.Y. 13057
Tel: (315) 432-0506
Fax: (315) 437-0509.

atch 2

Definitions for Air Force GRADE Ranking Factors

The definitions for the Air Force GRADE ranking factors are presented herein.

Air Force GRADE ranking definitions were used as required in the SOW. Each category was evaluated independently of others. AF GRADE rankings and the corresponding definitions are discussed below. Also included are Galson's interpretations where applicable.

Part 1: System Ranking Data

The parameters grouped in Part 1 are specific to each suspect material being evaluated. They include:

Physical Damage: Assess damage based on visible evidence of work surface accumulation of the condition of the sprayed/trowelled-on surface materials.

5	High. Dislodged pieces are evident on work surfaces.
4	Moderate. There is evidence of visible material fallout.
2	Low. There is some evidence of material fallout.
1	Minimal. There are isolated and very small areas of materials damage or fallout.
0	None. No damage or evidence of any material fallout.

Comments: No further interpretation needed.

Water Damage:

3	Yes. Visible water damage.
0	No. No water damage.

Comments: No further interpretation needed.

Proximity: to items for repair. If both A and B apply, score the one with the highest rating. (Check all that apply. Maximum of 3 points) How far is the material from routine maintenance areas?

A. **Sprayed or Trowelled-on:** Could the material be damaged by routine maintenance (as indicated by the distance of the routine maintenance to the suspect material)?

3	Less than 1 ft. or a ceiling panel contaminated with ACM must be removed.
2	1 to 5 ft.
1	Greater than 5 ft.
0	Greater than 5 ft. and no routine maintenance.

B. **Pipe, Boiler, or Duct Insulation:** Could damage occur as a result of routine maintenance?

3	A ceiling panel contaminated with ACM must be removed.
1	Yes.
0	No.

Comments: "proximity" calls for evaluation in either category A (sprayed-on and trowelled-on ACM) or category B (pipe, boiler, and duct insulation during routine maintenance) when they are present in a space.

This information is meaningful if the rated material contains asbestos; however, if the material is non-asbestos and a material rating is provided, the "proximity" value would be erroneously elevated based upon both ACM and non-asbestos materials. Since the asbestos content of the rated materials could only be verified after laboratory results were received, data was reported only for the material identified in the sample identification column rather all suspect materials.

Whenever materials were present or were not evaluated, "0" was entered in these data boxes.

Potential Contact: by occupants. How far is the friable sprayed-on, trowelled-on, or damaged material from the heads of room/area occupants, regardless of whether there is a barrier?

If less than 10 feet:		If greater than 10 feet:	
8	High	5	High
5	Medium	3	Medium
2	Low	0	Low

Comments: An AF GRADE score of "0" was used, regardless of height, for some materials that were inaccessible behind solid, fixed barriers.

Barriers: If both A and B apply, score the one with the highest rating. Check all that apply. (Maximum of 4 points.)

A. **Refers to sprayed or trowelled-on material on ceiling or walls.**

1	Suspended ceiling.
2	Encapsulation.
3	Railing or chicken wire.
4	None.

B. **Pipe, boiler, duct, or other surface/damaged materials.** Percent of total exposed and visible to the occupants.

1 Less than 25%.
2 25% to less than 50%.
3 50% to less than 75%.
4 75% to 100%.

Comments: This information is meaningful if the rated material contains asbestos; however, if the material is non-asbestos and a material rating is provided, the "barriers" value would be erroneously elevated based upon both ACM and non-asbestos materials. The asbestos content of the rated materials could only be verified after laboratory results were received; therefore, data was only recorded for the material identified in the sample identification column rather than all sampled materials.

Whenever materials were present or were not evaluated, "0" was entered in these data boxes.

Friable: Defined by EPA: "hand pressure can crumble, pulverize, or reduce to powder when dry." Score the friability of the surface/damaged material.

6 High. Material is fluffy and/or the slightest hand pressure can dislodge it. A slight breeze may disperse the material.
3 Moderate. Material can be dislodged or scraped/crumbled by hand.
1 Low. Material is firmly bound, difficult to scrape off by hand.

Comments: Galson assigned materials standard friability ratings of 0, 1, 3, or 6 for this project as follows:

0 vinyl asbestos floor tile (VAT), asbestos cement (transite), sheetrock wall, plaster wall.
1 asbestos cloth, aircell.
3 preformed, troweled-on, wet-packed, cementitious fireproofing, textured acoustic.
6 fluffy fireproofing, blown-in attic insulation, debris.

AF GRADE damage and exposure scores do not account for non-friable ACM. A rating of "0" was used for all non-friable materials.

The Health Hazard (Risk) Assessment is for sprayed-on, trowelled-on, and damaged friable materials. All non-friable ACM with a friability of "0" also received scores of "0" for System Ranking Data and Space Ranking Data.

Amount: Area or Amount of visible surface/damaged friable material.

0 Less than 10 sq. ft.
1 10 sq. ft. to 100 sq. ft.
2 More than 100 sq. ft. to 1000 sq. ft.
3 Greater than 1000 sq. ft.

Comments: The quantity of suspect exposed ACM in lineal feet or square feet was reported.

Galson surveyors only reported exposed material. A material was not classified as exposed if it was encapsulated, covered with a layer of paint (such as painted ceiling tiles and painted textured acoustical treatments), or covered with an intact canvas layer (such piping or boiler insulation).

Type of Material: If area/room contains numerous categories of material, score the friable material with the largest area. Check all other categories that are found.

0 to 4	Other friable material.
1	Boiler and/or pipe.
3	HVAC. Suspected ACM on exterior of ducts.
4	Ceilings or walls.

Comments: As discussed for "Proximity", only the score for the material identified by the sample identification was recorded.

Part II: Space Ranking Data

The parameters included in Part II are those room or environmental factors that apply to the material being evaluated.

Walls: Refers to the ability of the walls to hold fibers for re-entrainment. If more than one type, score the roughest. If the wall material is exposed friable asbestos, score as rough.

4	Rough. Difficult to clean with a HEPA vacuum.
3	Pitted. Difficult to clean with a damp cloth but cleanable with a HEPA vacuum.
2	Moderate. Can be cleaned with a damp cloth.

Comments: No further interpretation needed.

Floor:

4	Carpet or an extremely rough surface difficult to clean by HEPA vacuum or by a damp cloth.
2	Seamed or rough surface (e.g., uncoated concrete).
1	Smooth continuous surface (e.g., finished or coated concrete, smoothly joined tile, etc.).

Comments: No further interpretation needed.

Ventilation: Check all categories that apply. (Maximum 7 points)

5	The interior of the supply duct/plenum is coated/littered with friable material or is within 5 feet of a supply diffuser or fan and the condition of the material may result in fibers being entrained into the airflow.
2	The interior of the return air duct/plenum is coated/littered with friable material and is part of a recirculating system.
1	Air being supplied to the room/cell is: (1) drawn from an area where the potential for asbestos fiber release is possible, or (2) part of a recirculating system where fibers may be drawn into the system.
0	None of the above applies.

Comments: No further interpretation needed.

Air Movement: This refers to the general air movement in the room/area that may affect the friable surface/damaged material.

5	Material is subjected to routine turbulent or abrupt air movement.
2	Material is exposed to perceptible or occasional air stream.
0	No perceptible air flow in the room/area.

Comments: No further interpretation needed.

Activity:

5	High. Friable or surface/damaged material is subject to constant vibration (mechanical rooms).
2	Medium. Occasional vibration (a warehouse where forklifts are used, next to an active runway, kitchen).
0	Low. Administrative office, library, classroom, storage room, stairway or corridor, waiting room, etc.

Comments: The AF GRADE system classified activity as High, Medium, and Low, and specific room types were associated with each classification. The room type information was used for clarification rather than a fixed rating for the identified spaces (mechanical room, warehouse, kitchen, office, etc.). Unique characteristics of each space were used to score the room.

Population (Occup/Day): Define the average occupance and outside visitor traffic (do not count visitors from within the building) of a room/area based on an 8-hour day exposure.

1 Less than 9 or corridors.
2 10 to 100.
3 201 to 200.
4 501 to 1000.
5 Greater than 1001 or medical facilities, youth center, child care facilities or residential buildings regardless of the population.

Comments: No further interpretation needed.

Asbestos Content: Use the percentage for the material that has the highest probability of becoming airborne.

1 1% to 30%.
3 Greater than 30% to 50%.
5 Greater than 50%.

No Hazard: Calculation of AF Priority value defaults to 8 for all bulk samples from the friable surface/damaged material(s) indicating <1% asbestos.

Part III: Grade Priority Definitions

Priority 1: It is ACC policy that the material be inspected and then the base asbestos manager and Bioenvironmental should decide on whether removal is necessary.

Priority 2: Remove as soon as possible.

Priority 3: Planned removal.

Priority 4: Repair.

Priority 5: Monitor.

Priority 6: No immediate action.

Priority 7: Contains only non-friable ACM.

Priority 8: Contains no ACM.

Note: Definitions taken from the "Air Force Asbestos Guidance for Rating and Assessing Damage and Exposure - USAF OEHL Report 86-072EH0021HGA."

Appendix A7
Galson GRADE Priority Calculation Method

copied from: Asbestos Identification Survey
for
Griffiss AFB, Rome, New York
contract F44650-94-D-0003
order 5003
Galson Project Number R4-001
March, 1995

Galson Corporation
6601 Kirkville Road
East Syracuse, N.Y. 13057
Tel: (315) 432-0506
Fax: (315) 437-0509

Material Priorities

The pcV3© system has been developed with the ability to determine asbestos building material priorities based on the Air Force GRADE System algorithm. The formal definition of this algorithm is limited to defining individual material priorities for friable asbestos containing materials based on the combination of 15 separate factors[1]. These factors are listed below:

pcV3© Ranking Factor		Description
Material related factors:		
RF1	Physical Damage	
RF2	Water Damage	
RF3	Proximity to Occupants	
RF4	Potential Contact from Occupants	
RF5	Friability	
RF6	Friable Material Area	
Lookup from system ID		AF Material Type
RF15	Asbestos Content	
Space related factors:		
RF7	Wall Porosity	
RF8	Ventilation	
RF9	Air Movement	
RF10	Activity	
RF11	Floor Porosity	
RF12	Barriers	
RF13	Population	

These factors are rated for each material observation and are combined into an exposure and damage score using the equation shown below:

Damage = physical + water + proximity + matl type + potential contact + asbestos content.

Damage = rf1 + rf2 + rf3 + air force material type + rf4 + rf15

Exposure = friability + friable matl. area + wall porosity vent. + air + activity + flr. porosity + population

Exposure = rf5 + rf6 + rf7 + rf8 + rf9 +rf10 +rf11 + rf12 +rf13

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[1] We have extended the definition as shown to include non-friable and non-asbestos materials.

Then the exposure and damage scores are combined to develop a risk score using the equation shown below:

*Risk = 12.0324 - (0.1683 * damage) - (0.1693 * exposure)*

This risk score is then converted to a priority according to the following table.

Exposure is greater than:	Exposure is less than:	Priority is equal to:
0	6	1
6	7	2
7	8	3
8	9	4
9	10	5
10	12.0324	6
Non-friable asbestos		7
Non-asbestos		8

Space Priorities

Now, once all the materials within a space have been assigned ranking factors and priorities, the overall space priority is determined by combining the material ranking factors for all the individual materials in the following fashion.

- If all the materials in the space are non-asbestos, the space priority is assigned an 8.
- If all the asbestos containing materials in the space are non-friable, then the space priority is assigned a 7.

Otherwise space ranking factors are determined as follows:

Space Damage (SRF1) =	worst case physical damage of any material in the space.
Space Water Damage (SRF2) =	worst case water damage of any material in the space.
Space Proximity (SRF3) =	worst case proximity of any material in the space
Space Material Type =	Material type of material with highest quantity found in the space.
Space potential contact (SRF4)=	worst case potential contact of any material in the space.
Space asbestos content =	the asbestos content of the material with the highest value of the combination of the following factors:

RF1 - Physical Damage
RF2 - Water Damage
RF5 - Friability
RF6 - Friable Material Area
RF8 - Ventilation
RF9 - Air Movement
RF12 - Barrier

Space Friability (SRF5)=	worst case friability of any material in the space.
Space Friable Material Area (SRF6)	is determined by first converting the friable material area score back into a friable material area for each material in the space by assuming the maximum area allowed by the score (i.e., if a material's RF6 = 1 then the friable material area was set to 10. If the material's RF6 was = 2, the friable material areas was set to 100). Once all the materials are converted back into areas, the areas are summed up and converted back into an appropriate score for the cumulative area.
Space related ranking factors	are all identical for all materials in the space so any material in the space has the appropriate space related ranking factors.

These newly calculated ranking factors are combined using the identical equations for the individual material scores to determine a space damage, space exposure, and finally a space risk score. The space risk score is then used to look up a space priority using the same table used for material priorities.

Using this approach, even though a space may contain no Priority 1 materials, it may indeed be ranked as a Priority 1 space due to the combination of the materials observed.

Building Priorities

Building priorities are calculated by determining the highest priority (lowest number) space within the building.

This approach was formulated to most accurately expand the intention of the Air Force GRADE Priority system to evaluate and compare spaces and buildings as well as non-friable materials. It is important though to rely not only on the calculated priorities, but also non-quantifiable factors when developing the day to day asbestos management plan for the facility. The pcV3© system can only provide the analytical and survey related information and does not take into account changing environmental, functional, or occupational conditions.

ASBESTOS CLEARANCE CERTIFICATE

FINDING

An on-site survey has been conducted for the excess real property described below. The results are detailed below:

1. The asbestos survey was conducted in 1995 and it used detailed location descriptions (structure, floor, room, description & specific location of material) rather than diagrams to identify locations of suspected asbestos-containing materials. Therefore, no diagrams are provided.
2. Types and detailed descriptions of materials are found at attachment 1 of this certification and attachment H of the referenced EBS under "Comments".
3. Priority categories 1 through 8 were used to identify the asbestos condition. Priority codes descriptions are found at attachment 2 of this certification.
4. The current condition of asbestos containing materials was confirmed as part of the Environmental Baseline Survey conducted in 2000.
5. At the completion of the Phase II Environmental Baseline Survey in 2003 all friable asbestos was confirmed to have been encapsulated or removed. Should any asbestos materials become damaged while the property is being vacated and prior to being relinquished to AFRPA, the installation will abate the friable asbestos by encapsulation or removal.
6. The presence and condition of asbestos in the structure being excessed meets all Air Force, federal, state, and local laws and regulations. Therefore, the disposal of the below described property can be accomplished.
7. Description/name of area being excessed is as follows:

AFRL/RRS Parcel #1 Building 248

Certified by: _____
Bruce H. Mero REM
Chief Environmental, Safety
and Occupational Health Office

Date: 12 FEB 2004

Approved by: _____
Daniel C. Bollana PE
Chairman Environmental,Safety
and Occupational Health
Council

Date: 12 FEB 2004

Reference: 2004, Lu Engineers, *Environmental Baseline Survey, Rome Research Site Parcel 1, Griffiss Business and Technology Park, Rome, Oneida County, New York*

S P A C E D E T A I L R E P O R T

Plant: GRIF Site NEW
Building: 248 ADMINISTRATIVE

System ID: BCA01
Cycle: GY336GR

Space ID	Material ID	Quant.	Priority	Lab Rslt	Comments
EXT	Floor:0X Exterior	1500 sqft	7		
	AAA Wall Transite	1900 sqft	7	Assmd Pos.	
MECH	Floor:01 Mechanical Room	448 sqft	2		
	003 Domestic Water Fitting Insulatio	4 ftgs	2	Positive	Mud Fittings On Fiberglass Line.
	AAA Fitting - Steam	30 ftgs	2	Assmd Pos.	Material Assumed Asbestos Containing Due To Previous Survey: Sample Number Gm880151(heating Duct.)
	AAA Hvac System - Duct Surface-trowe	350 sqft	1	Assmd Pos.	Material Assumed Asbestos Containing Due To Previous Survey: Sample Number Gm880151(heating Duct.)
	AAA Door Core Insulation - Fire Door	48 sqft	4	Assmd Pos.	Material Assumed To Contain Asbestos, Material Found Inside Door But Was Not Able To Sample.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Foam Rubber, Non-asbestos Containing Material.
	NNN Hvac - Flexible Duct/flex Duct J	-		Assmd Neg.	Black Canvas-like Material.
MECH2	Floor:01 Mechanical Room	56 sqft	2		
	001 Ceiling - Sheetrock	24 sqft		Negative	
	002 Mastic Floor	56 sqft		Negative	
	002 Mastic Floor	128 sqft		Negative	
	003 Domestic Water Fitting Insulatio	22 ftgs	2	Positive	Mud Fittings On Fiberglass Line. Partially Above Ceiling.
	AAA Fitting - Steam	12 ftgs	2	Assmd Pos.	Material Assumed Asbestos Containing Due To Previous Survey: Sample Number Gm880151(heating Duct.)
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Partially Above Ceiling.
	NNN Duct	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.
	NNN Ceiling - Sheetrock	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.

Printed on 04/03/95

S P A C E D E T A I L R E P O R T

Plant: GRIF Site NEW
Building: 248 ADMINISTRATIVE

System ID: BCA01
Cycle: GY336GR

Space ID	Material ID	Quant.	Priority	Lab Rslt	Comments
	NNN Mech Equip. - Heat Exchanger	-		Assmd Neg.	Fiberglass, Non-asbestos Containing.
OFF	Floor:01 Office	3000 sqft	2		
	001 Wall - Sheetrock	1700 sqft		Negative	
	003 Domestic Water Fitting Insulatio	22 ftgs	3	Positive	Above Ceiling. Mud Fittings On Fiberglass Line.
	AAA Vinyl Composite Tile Floor	3000 sqft	7	Assmd Pos.	12" X 12" Tan; In Some Areas, Color And Size Indistinguishable Due To Carpeting. Under Carpet.
	AAA Ceiling Tile - Lay In	3000 sqft	2	Assmd Pos.	2' X 4' White Fissured Pattern.
	NNN Duct	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.
ROOF1	Floor:1R Roof	300 sqft	7		
	AAA Asphalt And Gravel	300 sqft	7	Assmd Pos.	
ROOF2	Floor:1R Roof	460 sqft	7		
	AAA Asphalt And Gravel	460 sqft	7	Assmd Pos.	
ROOF3	Floor:2R Roof	4000 sqft	7		
	AAA Asphalt And Gravel	4000 sqft	7	Assmd Pos.	
TOIL	Floor:01 Toilet Room	133 sqft	2		Pipe Chase Is Included In Toilet Space, There May Be Thermal Systems Insulation Included In Pipe Chase.
	001 Ceiling - Sheetrock	119 sqft		Negative	
	003 Domestic Water Fitting Insulatio	6 ftgs	4	Positive	Mud Fittings On Fiberglass Line.
	AAA Fitting - Steam	2 ftgs	3	Assmd Pos.	Partially Above Ceiling. Material Assumed Asbestos Containing Due To Previous Survey: Sample Number Gm880151(heating Duct.)

S P A C E D E T A I L R E P O R T

Plant: GRIF Site NEW
Building: 248 ADMINISTRATIVE

System ID: BCA01
Cycle: GY336GR

Space ID	Material ID	Quant.	Priority	Lab Rslt	Comments
	AAA Vinyl Composite Tile Floor	119 sqft	7	Assmd Pos.	9" X 9" Green.
	NNN Duct	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.
	NNN Pipe (type Not Specified.)	-		Assmd Neg.	Fiberglass, Non-asbestos Containing. Above Ceiling.

Appendix A3
AF GRADE System

copied from: Asbestos Identification Survey
for
Griffiss AFB, Rome, New York
Contract F44650-94-D-0003
order 5003
Galson Project Number R4-001
March, 1995

Galson Corporation
6601 Kirkville Road
East Syracuse, N.Y. 13057
Tel: (315) 432-0506
Fax: (315) 437-0509

atch 2

Definitions for Air Force GRADE Ranking Factors

The definitions for the Air Force GRADE ranking factors are presented herein.

Air Force GRADE ranking definitions were used as required in the SOW. Each category was evaluated independently of others. AF GRADE rankings and the corresponding definitions are discussed below. Also included are Galson's interpretations where applicable.

Part 1: System Ranking Data

The parameters grouped in Part 1 are specific to each suspect material being evaluated. They include:

Physical Damage: Assess damage based on visible evidence of work surface accumulation of the condition of the sprayed/trowelled-on surface materials.

5	High. Dislodged pieces are evident on work surfaces.
4	Moderate. There is evidence of visible material fallout.
2	Low. There is some evidence of material fallout.
1	Minimal. There are isolated and very small areas of materials damage or fallout.
0	None. No damage or evidence of any material fallout.

Comments: No further interpretation needed.

Water Damage:

3	Yes. Visible water damage.
0	No. No water damage.

Comments: No further interpretation needed.

Proximity: to items for repair. If both A and B apply, score the one with the highest rating. (Check all that apply. Maximum of 3 points) How far is the material from routine maintenance areas?

A. **Sprayed or Trowelled-on:** Could the material be damaged by routine maintenance (as indicated by the distance of the routine maintenance to the suspect material)?

3	Less than 1 ft. or a ceiling panel contaminated with ACM must be removed.
2	1 to 5 ft.
1	Greater than 5 ft.
0	Greater than 5 ft. and no routine maintenance.

B. **Pipe, Boiler, or Duct Insulation:** Could damage occur as a result of routine maintenance?

3	A ceiling panel contaminated with ACM must be removed.
1	Yes.
0	No.

Comments: "proximity" calls for evaluation in either category A (sprayed-on and trowelled-on ACM) or category B (pipe, boiler, and duct insulation during routine maintenance) when they are present in a space.

This information is meaningful if the rated material contains asbestos; however, if the material is non-asbestos and a material rating is provided, the "proximity" value would be erroneously elevated based upon both ACM and non-asbestos materials. Since the asbestos content of the rated materials could only be verified after laboratory results were received, data was reported only for the material identified in the sample identification column rather all suspect materials.

Whenever materials were present or were not evaluated, "0" was entered in these data boxes.

Potential Contact: by occupants. How far is the friable sprayed-on, trowelled-on, or damaged material from the heads of room/area occupants, regardless of whether there is a barrier?

If less than 10 feet:		If greater than 10 feet:	
8	High	5	High
5	Medium	3	Medium
2	Low	0	Low

Comments: An AF GRADE score of "0" was used, regardless of height, for some materials that were inaccessible behind solid, fixed barriers.

Barriers: If both A and B apply, score the one with the highest rating. Check all that apply. (Maximum of 4 points.)

A. Refers to sprayed or trowelled-on material on ceiling or walls.

1	Suspended ceiling.
2	Encapsulation.
3	Railing or chicken wire.
4	None.

B. **Pipe, boiler, duct, or other surface/damaged materials.** Percent of total exposed and visible to the occupants.

1 Less than 25%.
2 25% to less than 50%.
3 50% to less than 75%.
4 75% to 100%.

Comments: This information is meaningful if the rated material contains asbestos; however, if the material is non-asbestos and a material rating is provided, the "barriers" value would be erroneously elevated based upon both ACM and non-asbestos materials. The asbestos content of the rated materials could only be verified after laboratory results were received; therefore, data was only recorded for the material identified in the sample identification column rather than all sampled materials.

Whenever materials were present or were not evaluated, "0" was entered in these data boxes.

Friable: Defined by EPA: "hand pressure can crumble, pulverize, or reduce to powder when dry." Score the friability of the surface/damaged material.

6 High. Material is fluffy and/or the slightest hand pressure can dislodge it. A slight breeze may disperse the material.
3 Moderate. Material can be dislodged or scraped/crumbled by hand.
1 Low. Material is firmly bound, difficult to scrape off by hand.

Comments: Galson assigned materials standard friability ratings of 0, 1, 3, or 6 for this project as follows:

0 vinyl asbestos floor tile (VAT), asbestos cement (transite), sheetrock wall, plaster wall.
1 asbestos cloth, aircell.
3 preformed, troweled-on, wet-packed, cementitious fireproofing, textured acoustic.
6 fluffy fireproofing, blown-in attic insulation, debris.

AF GRADE damage and exposure scores do not account for non-friable ACM. A rating of "0" was used for all non-friable materials.

The Health Hazard (Risk) Assessment is for sprayed-on, trowelled-on, and damaged friable materials. All non-friable ACM with a friability of "0" also received scores of "0" for System Ranking Data and Space Ranking Data.

Amount: Area or Amount of visible surface/damaged friable material.

0 Less than 10 sq. ft.
1 10 sq. ft. to 100 sq. ft.
2 More than 100 sq. ft. to 1000 sq. ft.
3 Greater than 1000 sq. ft.

Comments: The quantity of suspect exposed ACM in lineal feet or square feet was reported.

Galson surveyors only reported exposed material. A material was not classified as exposed if it was encapsulated, covered with a layer of paint (such as painted ceiling tiles and painted textured acoustical treatments), or covered with an intact canvas layer (such piping or boiler insulation).

Type of Material: If area/room contains numerous categories of material, score the friable material with the largest area. Check all other categories that are found.

0 to 4	Other friable material.
1	Boiler and/or pipe.
3	HVAC. Suspected ACM on exterior of ducts.
4	Ceilings or walls.

Comments: As discussed for "Proximity", only the score for the material identified by the sample identification was recorded.

Part II: Space Ranking Data

The parameters included in Part II are those room or environmental factors that apply to the material being evaluated.

Walls: Refers to the ability of the walls to hold fibers for re-entrainment. If more than one type, score the roughest. If the wall material is exposed friable asbestos, score as rough.

4	Rough. Difficult to clean with a HEPA vacuum.
3	Pitted. Difficult to clean with a damp cloth but cleanable with a HEPA vacuum.
2	Moderate. Can be cleaned with a damp cloth.

Comments: No further interpretation needed.

Floor:

4	Carpet or an extremely rough surface difficult to clean by HEPA vacuum or by a damp cloth.
2	Seamed or rough surface (e.g., uncoated concrete).
1	Smooth continuous surface (e.g., finished or coated concrete, smoothly joined tile, etc.).

Comments: No further interpretation needed.

Ventilation: Check all categories that apply. (Maximum 7 points)

5	The interior of the supply duct/plenum is coated/littered with friable material or is within 5 feet of a supply diffuser or fan and the condition of the material may result in fibers being entrained into the airflow.
2	The interior of the return air duct/plenum is coated/littered with friable material and is part of a recirculating system.
1	Air being supplied to the room/cell is: (1) drawn from an area where the potential for asbestos fiber release is possible, or (2) part of a recirculating system where fibers may be drawn into the system.
0	None of the above applies.

Comments: No further interpretation needed.

Air Movement: This refers to the general air movement in the room/area that may affect the friable surface/damaged material.

5	Material is subjected to routine turbulent or abrupt air movement.
2	Material is exposed to perceptible or occasional air stream.
0	No perceptible air flow in the room/area.

Comments: No further interpretation needed.

Activity:

5	High. Friable or surface/damaged material is subject to constant vibration (mechanical rooms).
2	Medium. Occasional vibration (a warehouse where forklifts are used, next to an active runway, kitchen).
0	Low. Administrative office, library, classroom, storage room, stairway or corridor, waiting room, etc.

Comments: The AF GRADE system classified activity as High, Medium, and Low, and specific room types were associated with each classification. The room type information was used for clarification rather than a fixed rating for the identified spaces (mechanical room, warehouse, kitchen, office, etc.). Unique characteristics of each space were used to score the room.

Population (Occup/Day): Define the average occupance and outside visitor traffic (do not count visitors from within the building) of a room/area based on an 8-hour day exposure.

1 Less than 9 or corridors.
2 10 to 100.
3 201 to 200.
4 501 to 1000.
5 Greater than 1001 or medical facilities, youth center, child care facilities or residential buildings regardless of the population.

Comments: No further interpretation needed.

Asbestos Content: Use the percentage for the material that has the highest probability of becoming airborne.

1 1% to 30%.
3 Greater than 30% to 50%.
5 Greater than 50%.

No Hazard: Calculation of AF Priority value defaults to 8 for all bulk samples from the friable surface/damaged material(s) indicating <1% asbestos.

Part III: Grade Priority Definitions

Priority 1: It is ACC policy that the material be inspected and then the base asbestos manager and Bioenvironmental should decide on whether removal is necessary.

Priority 2: Remove as soon as possible.

Priority 3: Planned removal.

Priority 4: Repair.

Priority 5: Monitor.

Priority 6: No immediate action.

Priority 7: Contains only non-friable ACM.

Priority 8: Contains no ACM.

Note: Definitions taken from the "Air Force Asbestos Guidance for Rating and Assessing Damage and Exposure - USAF OEHL Report 86-072EH0021HGA."

Appendix A7
Galson GRADE Priority Calculation Method

copied from: Asbestos Identification Survey
for
Griffiss AFB, Rome, New York
Contract FA4650-94-D-0003
order 5003
Galson Project Number R4-001
March, 1995

Galson Corporation
6601 Kirkville Road
East Syracuse, N.Y. 13057
Tel: (315) 432-0506
Fax: (315) 437-0509

Material Priorities

The pcV3© system has been developed with the ability to determine asbestos building material priorities based on the Air Force GRADE System algorithm. The formal definition of this algorithm is limited to defining individual material priorities for friable asbestos containing materials based on the combination of 15 separate factors[1]. These factors are listed below:

pcV3© Ranking Factor		Description
Material related factors:		
RF1	Physical Damage	
RF2	Water Damage	
RF3	Proximity to Occupants	
RF4	Potential Contact from Occupants	
RF5	Friability	
RF6	Friable Material Area	
Lookup from system ID		AF Material Type
RF15	Asbestos Content	
Space related factors:		
RF7	Wall Porosity	
RF8	Ventilation	
RF9	Air Movement	
RF10	Activity	
RF11	Floor Porosity	
RF12	Barriers	
RF13	Population	

These factors are rated for each material observation and are combined into an exposure and damage score using the equation shown below:

Damage = physical + water + proximity + matl type + potential contact + asbestos content.

Damage = rf1 + rf2 + rf3 + air force material type + rf4 + rf15

Exposure = friability + friable matl. area + wall porosity vent. + air + activity + flr. porosity + population

Exposure = rf5 + rf6 + rf7 + rf8 + rf9 +rf10 +rf11 + rf12 +rf13

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[1] We have extended the definition as shown to include non-friable and non-asbestos materials.

Then the exposure and damage scores are combined to develop a risk score using the equation shown below:

*Risk = 12.0324 - (0.1683 * damage) - (0.1693 * exposure)*

This risk score is then converted to a priority according to the following table.

Exposure is greater than:	Exposure is less than:	Priority is equal to:
0	6	1
6	7	2
7	8	3
8	9	4
9	10	5
10	12.0324	6
Non-friable asbestos		7
Non-asbestos		8

Space Priorities

Now, once all the materials within a space have been assigned ranking factors and priorities, the overall space priority is determined by combining the material ranking factors for all the individual materials in the following fashion.

- If all the materials in the space are non-asbestos, the space priority is assigned an 8.
- If all the asbestos containing materials in the space are non-friable, then the space priority is assigned a 7.

Otherwise space ranking factors are determined as follows:

Space Damage (SRF1) =	worst case physical damage of any material in the space.
Space Water Damage (SRF2) =	worst case water damage of any material in the space.
Space Proximity (SRF3) =	worst case proximity of any material in the space
Space Material Type =	Material type of material with highest quantity found in the space.
Space potential contact (SRF4)=	worst case potential contact of any material in the space.
Space asbestos content =	the asbestos content of the material with the highest value of the combination of the following factors:

RF1 - Physical Damage
RF2 - Water Damage
RF5 - Friability
RF6 - Friable Material Area
RF8 - Ventilation
RF9 - Air Movement
RF12 - Barrier

Space Friability (SRF5)=	worst case friability of any material in the space.
Space Friable Material Area (SRF6)	is determined by first converting the friable material area score back into a friable material area for each material in the space by assuming the maximum area allowed by the score (i.e., if a material's RF6 = 1 then the friable material area was set to 10. If the material's RF6 was = 2, the friable material areas was set to 100). Once all the materials are converted back into areas, the areas are summed up and converted back into an appropriate score for the cumulative area.
Space related ranking factors	are all identical for all materials in the space so any material in the space has the appropriate space related ranking factors.

These newly calculated ranking factors are combined using the identical equations for the individual material scores to determine a space damage, space exposure, and finally a space risk score. The space risk score is then used to look up a space priority using the same table used for material priorities.

Using this approach, even though a space may contain no Priority 1 materials, it may indeed be ranked as a Priority 1 space due to the combination of the materials observed.

Building Priorities

Building priorities are calculated by determining the highest priority (lowest number) space within the building.

This approach was formulated to most accurately expand the intention of the Air Force GRADE Priority system to evaluate and compare spaces and buildings as well as non-friable materials. It is important though to rely not only on the calculated priorities, but also non-quantifiable factors when developing the day to day asbestos management plan for the facility. The pcV3© system can only provide the analytical and survey related information and does not take into account changing environmental, functional, or occupational conditions.

ASBESTOS CLEARANCE CERTIFICATE

FINDING

An on-site survey has been conducted for the excess real property described below. The results are detailed below:

1. A physical survey of the facility did not reveal any asbestos or suspect asbestos containing materials.
2. Types and detailed descriptions of materials. N/A
3. Priority categories 1 through 8 were used to identify the asbestos condition . N/A
4. The current condition of asbestos containing materials. N/A
5. At the completion of the Phase II Environmental Baseline Survey in 2003 all friable asbestos was confirmed to have been encapsulated or removed. Should any asbestos materials become damaged while the property is being vacated and prior to being relinquished to AFRPA, the installation will abate the friable asbestos by encapsulation or removal.
6. The presence and condition of asbestos in the structure being excessed meets all Air Force, federal, state, and local laws and regulations. Therefore, the disposal of the below described property can be accomplished.
7. Description/name of area being excessed is as follows:

AFRL/RRS Parcel #1, Generator Building

Certified by: _____
Bruce H. Mero REM
Chief Environmental, Safety
and Occupational Health Office

Date: 12 FEB 2004

Approved by: _____
Daniel C. Bollana PE
Chairman Environmental,Safety
and Occupational Health
Council

Date: 12 FEB 2004

Reference: 2004, Lu Engineers, *Environmental Baseline Survey, Rome Research Site Parcel 1, Griffiss Business and Technology Park, Rome, Oneida County, New York*

ASBESTOS CLEARANCE CERTIFICATE

FINDING

An on-site survey has been conducted for the excess real property described below. The results are detailed below:

1. A physical survey of the facility did not reveal any asbestos or suspect asbestos containing materials.
2. Types and detailed descriptions of materials. N/A
3. Priority categories 1 through 8 were used to identify the asbestos condition . N/A
4. The current condition of asbestos containing materials. N/A
5. At the completion of the Phase II Environmental Baseline Survey in 2003 all friable asbestos was confirmed to have been encapsulated or removed. Should any asbestos materials become damaged while the property is being vacated and prior to being relinquished to AFRPA, the installation will abate the friable asbestos by encapsulation or removal.
6. The presence and condition of asbestos in the structure being excessed meets all Air Force, federal, state, and local laws and regulations. Therefore, the disposal of the below described property can be accomplished.
7. Description/name of area being excessed is as follows:

AFRL/RRS Parcel # 1, Picnic Shelter

Certified by: _____
Bruce H. Mero REM
Chief Environmental, Safety
and Occupational Health Office

Date: 12 FEB 2004

Approved by: _____
Daniel C. Bollana PE
Chairman Environmental,Safety
and Occupational Health
Council

Date: 12 FEB 2004

Reference: 2004, Lu Engineers, *Environmental Baseline Survey, Rome Research Site Parcel 1, Griffiss Business and Technology Park, Rome, Oneida County, New York*

APPENDIX H

ASBESTOS SURVEY INFORMATION

ENVIRONMENTAL BASELINE SURVEY
PARCEL 1, ROME RESEARCH SITE
GRIFFISS BUSINESS AND TECHNOLOGY PARK
ROME, ONEIDA COUNTY, NEW YORK

Table H-2: Asbestos Survey Disclosure Data
Space Detail Report for Griffiss Air Force Base

Building : 240 ADMINISTRATIVE

Space ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
AAA	Hvac - Flexible Duct/flex Duct Joint	10 Sq. Ft.	1	1	5	1	0	Assumed Pos	This material was previously sampled and was determined to be asbestos containing: sample #GM870176.
AAA	Hvac System - Duct Surface - Trowelle	16000 Sq. Ft.	1	2	5	6	0	Assumed Pos	This material was previously sampled and was determined to be asbestos containing: sample #GM870177 and GM870178.
005	Piping - Unspecified Type	2 Lin. Ft.	1	2	5	0	0	Positive	Tar wrap.
NNN	Piping - Unspecified Type	24000 Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Foam rubber, non-asbestos containing material.
018	Fitting - Domestic Water Fitting	42 Fittings	1	1	5	6	0	Positive	
NNN	Mech Equip. - Insulation	24000 Sq. Ft.	1	?	?	?	?	Assumed Neg	Foam rubber, non-asbestos containing material.
NNN	Mech Equip. - Tank	Sq. Ft.	1	?	?	?	?	Assumed Neg	Foam rubber, non-asbestos containing material.
NNN	Duct Insulation	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
NNN	Hvac - Flexible Duct/flex Duct Joint	Sq. Ft.	1	?	?	?	?	Assumed Neg	Rubber/vinyl material.
NNN	Mech Equip. - Heat Exchanger	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
AAA	Door Core Insulation / Fire Door	42 Sq. Ft.	1	0	2	6	0	Assumed Pos	Assumed asbestos containing due to inaccessiblity inside door.
009	Fitting - Roof Drain	10 Fittings	1	1	2	6	0	Positive	
004	Fitting - Steam	31 Fittings	1	2	5	6	0	Positive	
003	Piping - Steam	126 Lin. Ft.	1	1	5	1	0	Positive	Tar paper over mineral fiber.
006	Piping - Steam	55 Lin. Ft.	1	2	5	1	0	Negative	Tar paper on fiberglass.
023	Fitting - Steam	95 Fittings	1	1	5	6	0	Trace	Mud fittings on fiberglass line.
008	Piping - Roof Drain	100 Lin. Ft.	1	2	2	1	0	Positive	
017	Piping - Domestic Water	350 Lin. Ft.	1	2	5	1	0	Positive	
010	Piping - Steam	190 Lin. Ft.	1	1	5	6	0	Positive	
010	Piping - Steam	115 Lin. Ft.	1	2	5	6	0	Positive	
011	Fitting - Steam	35 Fittings	1	1	5	6	0	Positive	
011	Fitting - Steam	55 Fittings	1	1	5	6	0	Positive	
012	Piping - Steam	30 Lin. Ft.	1	1	5	3	0	Positive	
013	Door Core Insulation / Fire Door	42 Sq. Ft.	1	2	5	3	0	Positive	
014	Piping - Unspecified Type	4 Lin. Ft.	1	0	5	6	0	Positive	
015	Door Core Insulation / Fire Door	42 Sq. Ft.	1	1	5	3	0	Positive	
007	Fitting - Steam	20 Fittings	1	2	5	6	0	Trace	

Table H-2: Asbestos Survey Disclosure Data
Space Detail Report for Griffiss Air Force Base

Building : 240 ADMINISTRATIVE

Space ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
BASE2 Floor: 1B	Mechanical Room		2						
NNN	Mech Equip. - Tank	5100 Sq. Ft.	2	?	?	?	?	Assumed Neg	Foam rubber, non-asbestos containing material.
024	Hvac - Flexible Duct/flex Duct Joint	10 Sq. Ft.	2	4	5	1	0	Negative	Canvas-like material.
026		8 Sq. Ft.	2	1	5	1	0	Negative	Paper-like material found in fan housing near chiller.
NNN	Wall - Wall Insulation Batts	5100 Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
NNN	Piping - Unspecified Type	Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Foam rubber, non-asbestos containing material.
NNN	Fitting - Unspecified Type	Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Foam rubber, non-asbestos containing material.
NNN	Door Core Insulation / Fire Door	Sq. Ft.	2	?	?	?	?	Assumed Neg	Cardboard.
027	Fittings - Chilled Water System	35 Fittings	2	2	5	6	0	Positive	Mud fittings on fiberglass line.
029	Fitting - Steam	17 Fittings	2	1	5	6	0	Positive	Mud fittings on fiberglass line.
COMP1 Floor: 03	Computer Room		2						
017	Piping - Domestic Water	20 Lin. Ft.	2	1	0	1	0	Positive	In pipe chase.
NNN	Wall - Board	1500 Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
NNN	Insulation Batts	Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
AAA	Ceiling - Lay-in Tile	Sq. Ft.	2	1	2	3	0	Assumed Pos	2' X 4' fissure; 2' X 2' fissure; 2' X 2' bllack rough pattern.
018	Fitting - Domestic Water Fitting	6 Fittings	2	1	0	6	0	Positive	In pipe chase.
AAA	Floor - Vinyl Composite Tile	1500 Sq. Ft.	2	0	0	0	0	Assumed Pos	Under carpet. 12" X 12" off-white with brown spots; 9" X 9" black; 9" X 9" green and white; in some areas there may be two or more layers of floor tile.
COMP2 Floor: 01	Computer Room		1						
002	Wall - Sheetrock	10000 Sq. Ft.	1	1	5	1	0	Negative	
028	Floor - Mastic	11000 Sq. Ft.	1	0	0	1	0	Negative	Found under computer floor.
AAA	Floor - Vinyl Composite Tile	12000 Sq. Ft.	1	1	8	0	0	Assumed Pos	2' X 2' white; 12" X 12" white with brown spots.
AAA	Ceiling - Lay-in Tile	Sq. Ft.	1	1	2	3	0	Assumed Pos	2' X 4' fissure; 2' X 2' fissure; 2' X 2' bllack rough pattern.
NNN	Wall - Board	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
NNN	Piping - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Partially above ceiling.

Table H-2: Asbestos Survey Disclosure Data

Space Detail Report for Griffiss Air Force Base

Building : 240 ADMINISTRATIVE

Space	ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
	NNN	Hvac - Flexible Duct/flex Duct Joint	12000 Sq. Ft.	1	?	?	?	?	Assumed Neg	Rubber/vinyl material.
CONTR	Floor: 03	Computer Room		3						
	AAA	Ceiling - Lay-in Tile	1200 Sq. Ft.	3	1	2	3	0	Assumed Pos	2' X 4' fissure; 2' X 2' fissure; 2' X 2' bllack rough pattern.
	NNN	Wall - Board	Sq. Ft.	3	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	NNN	Duct Insulation	Sq. Ft.	3	?	?	?	?	Assumed Neg	Foam rubber, non-asbestos containing material. Above ceiling.
	NNN	Hvac - Flexible Duct/flex Duct Joint	Sq. Ft.	3	?	?	?	?	Assumed Neg	Rubber/vinyl material. Above ceiling.
MECH	Floor: 03	Mechanical Room		1						
	AAA	Wall - Transite	160 Sq. Ft.	1	1	5	0	0	Assumed Pos	
	NNN	Wall - Board	99 Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	NNN	Insulation Batts	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
	NNN	Hvac - Flexible Duct/flex Duct Joint	Sq. Ft.	1	?	?	?	?	Assumed Neg	Rubber/vinyl material.
	AAA	Floor - Vinyl Composite Tile	Sq. Ft.	1	1	8	0	0	Assumed Pos	12" X 12" off-white with brown spots; 9" X 9" black; 9" X 9" green and white; in some areas there may be two or more layers of floor tile.
	AAA	Ceiling - Lay-in Tile	Sq. Ft.	1	1	2	3	0	Assumed Pos	2' X 4' fissure; 2' X 2' fissure; 2' X 2' bllack rough pattern.
	NNN	Piping - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	Foam rubber, non-asbestos containing material.
OFF1	Floor: 01	Office		1						
	NNN	Piping - Unspecified Type	180 Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Foam rubber, non-asbestos containing material.
	NNN	Fitting - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. In pipe chase.
	NNN	Ceiling - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	1' X 2' metal pan ceiling tile.
	AAA	Wall - Transite	144 Sq. Ft.	1	1	5	0	0	Assumed Pos	Transite walls were also found behind radiators.
	AAA	Floor - Vinyl Composite Tile	180 Sq. Ft.	1	1	8	0	0	Assumed Pos	12" X 12" off-white with brown spots; 9" X 9" black; 9" X 9" green and white; in some areas there may be two or more layers of floor tile.
	018	Fitting - Domestic Water Fitting	6 Fittings	1	1	0	6	0	Positive	In pipe chase.
	017	Piping - Domestic Water	48 Lin. Ft.	1	1	0	1	0	Positive	In pipe chase.
	001	Wall - Sheetrock	107 Sq. Ft.	1	2	5	1	0	Positive	

Table H-2: Asbestos Survey Disclosure Data
Space Detail Report for Griffiss Air Force Base

Building : 240 ADMINISTRATIVE

Space	ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
OFF2	Floor:	01 Office		1						In some areas, space above ceiling was inaccessible.
	NNN	Piping - Unspecified Type	19000 Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. In pipe chase.
	002	Wall - Sheetrock	Sq. Ft.	1	1	5	1	0	Negative	
	NNN	Wall - Board	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	013	Door Core Insulation / Fire Door	84 Sq. Ft.	1	5	8	3	0	Positive	
	017	Piping - Domestic Water	840 Lin. Ft.	1	1	2	1	0	Positive	In pipe chase.
	019	Duct Insulation	50 Sq. Ft.	1	2	2	1	0	Positive	Above ceiling. Tar paper on fiberglass.
	AAA	Ceiling - Lay-in Tile	15000 Sq. Ft.	1	1	2	3	0	Assumed Pos	2' X 4' fissure; 2' X 2' fissure; 2' X 2' bllack rough pattern.
	NNN	Ceiling - Unspecified Type	19000 Sq. Ft.	1	?	?	?	?	Assumed Neg	1' X 2' metal pan ceiling tile.
	018	Fitting - Domestic Water Fitting	140 Fittings	1	1	2	6	0	Positive	In pipe chase.
OFF3	Floor:	02 Office		1						In some areas, space above ceiling was inaccessible.
	NNN	Duct Insulation	21000 Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
	NNN	Wall - Sheetrock	Sq. Ft.	1	?	?	?	?	Assumed Neg	Ultra-wall/untaped sheetrock, non-asbestos containing material.
	AAA	Floor - Vinyl Composite Tile	20000 Sq. Ft.	1	1	8	0	0	Assumed Pos	Partially under carpet. 12" X 12" off-white with brown spots; 9" X 9" black; 9" X 9" green and white; in some areas there may be two or more layers of floor tile.
	NNN	Ceiling - Unspecified Type	21000 Sq. Ft.	1	?	?	?	?	Assumed Neg	1' X 2' metal pan ceiling tile.
	NNN	Piping - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass and rubber piping was found in pipe chase.
	018	Fitting - Domestic Water Fitting	140 Fittings	1	1	2	6	0	Positive	In pipe chase.
	002	Wall - Sheetrock	3600 Sq. Ft.	1	1	5	1	0	Negative	
	013	Door Core Insulation / Fire Door	84 Sq. Ft.	1	1	2	3	0	Positive	
	017	Piping - Domestic Water	840 Lin. Ft.	1	1	2	1	0	Positive	In pipe chase.
	AAA	Ceiling - Lay-in Tile	13000 Sq. Ft.	1	1	2	3	0	Assumed Pos	2' X 4' fissure; 2' X 2' fissure; 2' X 2' bllack rough pattern.
	AAA	Wall - Transite	23000 Sq. Ft.	1	1	5	0	0	Assumed Pos	Transite walls were also found behind radiators.
OFF4	Floor:	03 Office		1						In some areas, space above ceiling was inaccessible.

Table H-2: Asbestos Survey Disclosure Data
Space Detail Report for Griffiss Air Force Base

Building : 240 ADMINISTRATIVE

Space	ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
	AAA	Floor - Vinyl Composite Tile	19000 Sq. Ft.	1	1	8	0	0	Assumed Pos	Partially under carpet. 12" X 12" off-white with brown spots; 9" X 9" black; 9" X 9" green and white; in some areas there may be two or more layers of floor tile.
	NNN	Ceiling - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	1' X 2' metal pan ceiling tile.
	NNN	Piping - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass and rubber piping was found in pipe chase.
	AAA	Ceiling - Lay-in Tile	4600 Sq. Ft.	1	1	2	3	0	Assumed Pos	2' X 4' fissure; 2' X 2' fissure; 2' X 2' bllack rough pattern.
	AAA	Wall - Transite	21000 Sq. Ft.	1	1	5	0	0	Assumed Pos	
	017	Piping - Domestic Water	150 Lin. Ft.	1	1	2	1	0	Positive	In pipe chase.
	013	Door Core Insulation / Fire Door	84 Sq. Ft.	1	1	2	3	0	Positive	
	011	Fitting - Steam	6 Fittings	1	1	2	6	0	Positive	Above ceiling.
	010	Piping - Steam	56 Lin. Ft.	1	1	2	6	0	Positive	Above ceiling.
	002	Wall - Sheetrock	3200 Sq. Ft.	1	1	5	1	0	Negative	
	018	Fitting - Domestic Water Fitting	50 Fittings	1	1	2	6	0	Positive	In pipe chase.
	NNN	Duct Insulation	19000 Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
PC10	Floor:	02 Pipe Chase		8						No suspected asbestos containing material in space.
	NNN	Fitting - Unspecified Type	56 Sq. Ft.	8	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	NNN	Piping - Unspecified Type	Sq. Ft.	8	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Foam rubber, non-asbestos containing material.
PC11	Floor:	03 Pipe Chase		2						Area is either partially or totally inaccessible both physically and visually. All quantities and conditions are estimated.
	017	Piping - Domestic Water	120 Lin. Ft.	2	1	5	1	0	Positive	
	018	Fitting - Domestic Water Fitting	30 Fittings	2	1	5	6	0	Positive	
PC12	Floor:	03 Pipe Chase		8						No suspected asbestos containing material in space.
	NNN	Fitting - Unspecified Type	56 Sq. Ft.	8	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	NNN	Piping - Unspecified Type	Sq. Ft.	8	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Foam rubber, non-asbestos containing material.

Table H-2: Asbestos Survey Disclosure Data
Space Detail Report for Griffiss Air Force Base

Building : 240 ADMINISTRATIVE

Space	ID	Material ID		Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
PC7	Floor:	01	Pipe Chase		2						Area is either partially or totally inaccessible both physically and visually. All quantities and conditions are estimated.
	018	Fitting - Domestic Water Fitting		30 Fittings	2	1	5	6	0	Positive	
	017	Piping - Domestic Water		120 Lin. Ft.	2	1	5	1	0	Positive	
PC8	Floor:	01	Pipe Chase		8						No suspected asbestos containing material in space.
	NNN	Piping - Unspecified Type		56 Sq. Ft.	8	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Foam rubber, non-asbestos containing material.
	NNN	Fitting - Unspecified Type		Sq. Ft.	8	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
PC9	Floor:	02	Pipe Chase		2						Area is either partially or totally inaccessible both physically and visually. All quantities and conditions are estimated.
	017	Piping - Domestic Water		120 Lin. Ft.	2	1	5	1	0	Positive	
	018	Fitting - Domestic Water Fitting		30 Fittings	2	1	5	6	0	Positive	
ROOF1	Floor:	1R	Roof		7						
	AAA	Roof - Rolled Sheet Type		220 Sq. Ft.	7	1	8	0	0	Assumed Pos	
ROOF2	Floor:	2R	Roof		7						
	AAA	Roof - Asphalt And Gravel		12000 Sq. Ft.	7	1	8	0	0	Assumed Pos	
ROOF3	Floor:	3R	Roof		7						
	NNN	Hvac - Flexible Duct/flex Duct Joint		25000 Sq. Ft.	7	?	?	?	?	Assumed Neg	Rubber/vinyl material.
	NNN	Piping - Unspecified Type		Sq. Ft.	7	?	?	?	?	Assumed Neg	Foam rubber, non-asbestos containing material.
	AAA	Roof - Asphalt And Gravel		Sq. Ft.	7	1	8	0	0	Assumed Pos	
ROOF4	Floor:	4R	Roof		7						
	AAA	Roof - Asphalt And Gravel		400 Sq. Ft.	7	1	8	0	0	Assumed Pos	
ROOF5	Floor:	2R	Roof		7						
	AAA	Roof - Asphalt And Gravel		144 Sq. Ft.	7	1	8	0	0	Assumed Pos	
SHOP	Floor:	01	Shop(maint Or Class)		1						In some areas, space above ceiling was inaccessible.
	NNN	Ceiling - Unspecified Type		2300 Sq. Ft.	1	?	?	?	?	Assumed Neg	1' X 2' metal pan ceiling tile.
	NNN	Piping - Unspecified Type		Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Foam rubber, non-asbestos containing material.
	NNN	Fitting - Unspecified Type		Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.

Table H-2: Asbestos Survey Disclosure Data

Space Detail Report for Griffiss Air Force Base

Building : 240 ADMINISTRATIVE

Space	ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
	AAA	Floor - Vinyl Composite Tile	830 Sq. Ft.	1	1	8	0	0	Assumed Pos	12" X 12" off-white with brown spots; 9" X 9" black; 9" X 9" green and white; in some areas there may be two or more layers of floor tile.
	020	Wall - Plaster	21 Sq. Ft.	1	2	5	0	0	Negative	
	NNN	Wall - Sheetrock	2300 Sq. Ft.	1	?	?	?	?	Assumed Neg	Ultra-wall/untaped sheetrock, non-asbestos containing material.
	002	Wall - Sheetrock	566 Sq. Ft.	1	1	5	1	0	Negative	
	AAA	Wall - Transite	710 Sq. Ft.	1	2	5	0	0	Assumed Pos	Transite walls were also found behind radiators.
	001	Wall - Sheetrock	588 Sq. Ft.	1	2	5	1	0	Positive	
	017	Piping - Domestic Water	60 Lin. Ft.	1	1	0	1	0	Positive	In pipe chase.
	018	Fitting - Domestic Water Fitting	6 Fittings	1	1	0	6	0	Positive	In pipe chase.
STAIR1	Floor:	1B Hallway Or Stairs		2						
	NNN	Piping - Unspecified Type	280 Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Foam rubber, non-asbestos containing material.
	AAA	Floor - Vinyl Composite Tile	255 Sq. Ft.	2	1	8	0	0	Assumed Pos	12" X 12" off-white with brown spots; 9" X 9" black; 9" X 9" green and white; in some areas there may be two or more layers of floor tile.
	AAA	Wall - Transite	108 Sq. Ft.	2	1	2	0	0	Assumed Pos	Transite walls were also found behind radiators.
	018	Fitting - Domestic Water Fitting	10 Fittings	2	1	0	6	0	Positive	In pipe chase.
	017	Piping - Domestic Water	72 Lin. Ft.	2	1	0	1	0	Positive	In pipe chase.
STAIR2	Floor:	1B Hallway Or Stairs		3						
	017	Piping - Domestic Water	72 Lin. Ft.	3	1	0	1	0	Positive	In pipe chase.
	NNN	Piping - Unspecified Type	238 Sq. Ft.	3	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Foam rubber, non-asbestos containing material.
	AAA	Floor - Vinyl Composite Tile	255 Sq. Ft.	3	1	8	0	0	Assumed Pos	12" X 12" off-white with brown spots; 9" X 9" black; 9" X 9" green and white; in some areas there may be two or more layers of floor tile.
	AAA	Wall - Transite	108 Sq. Ft.	3	1	2	0	0	Assumed Pos	Transite walls were also found behind radiators.
	018	Fitting - Domestic Water Fitting	10 Fittings	3	1	0	1	0	Positive	In pipe chase.
	021	Ceiling - Unspecified Type	238 Sq. Ft.	3	0	0	0	0	Negative	Plaster-like material.

Table H-2: Asbestos Survey Disclosure Data
Space Detail Report for Griffiss Air Force Base

Building : 240 ADMINISTRATIVE

Space ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
STAIR3 Floor: 01	Hallway Or Stairs		2						
017	Piping - Domestic Water	24 Sq. Ft.	2	1	0	1	0	Positive	In pipe chase.
AAA	Wall - Transite	42 Sq. Ft.	2	1	0	0	0	Assumed Pos	Transite walls were also found behind radiators.
AAA	Floor - Vinyl Composite Tile	357 Sq. Ft.	2	1	8	0	0	Assumed Pos	12" X 12" off-white with brown spots; 9" X 9" black; 9" X 9" green and white; in some areas there may be two or more layers of floor tile.
018	Fitting - Domestic Water Fitting	4 Sq. Ft.	2	1	0	6	0	Positive	In pipe chase.
NNN	Piping - Unspecified Type	323 Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass and rubber piping was found in pipe chase.
TOIL1 Floor: 01	Toilet/bathroom		3						
AAA	Ceiling - Lay-in Tile	390 Sq. Ft.	3	1	2	3	0	Assumed Pos	2' X 4' fissure; 2' X 2' fissure; 2' X 2' black rough pattern.
AAA	Wall - Transite	45 Sq. Ft.	3	1	2	0	0	Assumed Pos	Transite walls were also found behind radiators.
TOIL2 Floor: 01	Toilet/bathroom		1						
001	Wall - Sheetrock	144 Sq. Ft.	1	1	5	1	0	Positive	
016	Fitting - Unspecified Type	2 Fittings	1	1	5	6	0	Negative	Joint compound.
AAA	Ceiling - Lay-in Tile	404 Sq. Ft.	1	1	2	3	0	Assumed Pos	2' X 4' fissure; 2' X 2' fissure; 2' X 2' black rough pattern.
AAA	Floor - Vinyl Composite Tile	70 Sq. Ft.	1	1	8	0	0	Assumed Pos	12" X 12" off-white with brown spots; 9" X 9" black; 9" X 9" green and white; in some areas there may be two or more layers of floor tile.
NNN	Piping - Unspecified Type	564 Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
AAA	Wall - Transite	48 Sq. Ft.	1	4	5	0	0	Assumed Pos	Transite walls were also found behind radiators.
002	Wall - Sheetrock	104 Sq. Ft.	1	1	5	1	0	Negative	
TOIL3 Floor: 02	Toilet/bathroom		2						
AAA	Ceiling - Lay-in Tile	390 Sq. Ft.	2	1	2	3	0	Assumed Pos	2' X 4' fissure; 2' X 2' fissure; 2' X 2' black rough pattern.
AAA	Wall - Transite	45 Sq. Ft.	2	1	2	0	0	Assumed Pos	Transite walls were also found behind radiators.
NNN	Piping - Unspecified Type	435 Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
TOIL4 Floor: 02	Toilet/bathroom		2						

Table H-2: Asbestos Survey Disclosure Data
Space Detail Report for Griffiss Air Force Base

Building : 240 ADMINISTRATIVE

Space	ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
	AAA	Wall - Transite	48 Sq. Ft.	2	1	5	0	0	Assumed Pos	Transite walls were also found behind radiators.
	AAA	Ceiling - Lay-in Tile	320 Sq. Ft.	2	1	2	3	0	Assumed Pos	2' X 4' fissure; 2' X 2' fissure; 2' X 2' bllack rough pattern.
	AAA	Floor - Vinyl Composite Tile	84 Sq. Ft.	2	1	8	0	0	Assumed Pos	12" X 12" off-white with brown spots; 9" X 9" black; 9" X 9" green and white; in some areas there may be two or more layers of floor tile.
TOIL5	Floor:	03 Toilet/bathroom		3						
	AAA	Ceiling - Lay-in Tile	390 Sq. Ft.	3	1	2	3	0	Assumed Pos	2' X 4' fissure; 2' X 2' fissure; 2' X 2' bllack rough pattern.
	AAA	Wall - Transite	45 Sq. Ft.	3	1	2	0	0	Assumed Pos	Transite walls were also found behind radiators.
TOIL6	Floor:	03 Toilet/bathroom		2						
	AAA	Ceiling - Lay-in Tile	300 Sq. Ft.	2	1	2	3	0	Assumed Pos	2' X 4' fissure; 2' X 2' fissure; 2' X 2' bllack rough pattern.
	AAA	Wall - Transite	45 Sq. Ft.	2	1	5	0	0	Assumed Pos	Transite walls were also found behind radiators.
MECH	Floor:	01 Mechanical Room		7						
	007	Ceiling - Sheetrock	380 Sq. Ft.	7	0	2	1	0	Negative	Wall and ceiling material considered identical.
	NNN	Fitting - Unspecified Type	Sq. Ft.	7	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	NNN	Door Core Insulation / Fire Door	Sq. Ft.	7	?	?	?	?	Assumed Neg	Styrofoam.
	NNN	Piping - Unspecified Type	Sq. Ft.	7	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	007	Wall - Sheetrock	582 Sq. Ft.	7	0	5	1	0	Negative	
	008	Floor - Mastic	260 Sq. Ft.	7	1	8	0	0	Positive	
OFF1	Floor:	01 Office		1						
	005	Fitting - Domestic Water Fitting	4 Fittings	1	5	8	6	0	Positive	
	001	Wall - Sheetrock	243 Sq. Ft.	1	1	5	1	0	Positive	
	001	Ceiling - Sheetrock	560 Sq. Ft.	1	1	2	1	0	Positive	Wall and ceiling material considered identical.
	004	Piping - Domestic Water	30 Lin. Ft.	1	2	5	1	0	Positive	
	AAA	Wall - Transite	844 Sq. Ft.	1	2	5	0	0	Assumed Pos	
	AAA	Floor - Vinyl Composite Tile	470 Sq. Ft.	1	1	8	0	0	Assumed Pos	Partially under carpet. 12" X 12" white with black streaks; 12" X 12" brick pattern over 9" X 9" green; 12" X 12" brick pattern; 9" X 9" green; 12" X 12" light brown square pattern.

Table H-2: Asbestos Survey Disclosure Data
Space Detail Report for Griffiss Air Force Base

Building : 245 WAREHOUSE

Space	ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
	NNN	Wall - Sheetrock	660 Sq. Ft.	1	?	?	?	?	Assumed Neg	Ultra-wall/untaped sheetrock, non-asbestos containing material.
	NNN	Piping - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	003	Piping - Heating Hot Water	3 Lin. Ft.	1	1	5	3	0	Positive	
OFF2	Floor:	01 Office		2						
	004	Piping - Domestic Water	19 Lin. Ft.	2	1	5	1	0	Positive	
	005	Fitting - Domestic Water Fitting	4 Fittings	2	1	5	6	0	Positive	
	NNN	Piping - Unspecified Type	247 Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	003	Piping - Heating Hot Water	3 Lin. Ft.	2	2	5	3	0	Positive	
	001	Ceiling - Sheetrock	247 Sq. Ft.	2	1	2	1	0	Positive	Wall and ceiling material considered identical.
	001	Wall - Sheetrock	339 Sq. Ft.	2	1	5	1	0	Positive	
	AAA	Floor - Vinyl Composite Tile	247 Sq. Ft.	2	1	8	0	0	Assumed Pos	12" X 12" white with black streaks; 12" X 12" brick pattern over 9" X 9" green; 12" X 12" brick pattern; 9" X 9" green; 12" X 12" light brown square pattern.
REC SUPP	Floor:	01 Misc / Mixed Use Room		1						Due to the height, all thermal systems insulation is assumed to be th esame throughout the space.
	006	Fitting - Heating Hot Water	80 Fittings	1	1	2	6	0	Positive	Mud fittings on fiberglass line.
	006	Fitting - Heating Hot Water	Fittings		1	2	6	0	Positive	Mud fittings on fiberglass line.
	AAA	Wall - Transite	560 Sq. Ft.	1	1	5	0	0	Assumed Pos	
	AAA	Floor - Vinyl Composite Tile	48 Sq. Ft.	1	1	8	0	0	Assumed Pos	12" X 12" white with black streaks; 12" X 12" brick pattern over 9" X 9" green; 12" X 12" brick pattern; 9" X 9" green; 12" X 12" light brown square pattern.
	AAA	Floor - Vinyl Composite Tile	Sq. Ft.		1	8	0	0	Assumed Pos	12" X 12" white with black streaks; 12" X 12" brick pattern over 9" X 9" green; 12" X 12" brick pattern; 9" X 9" green; 12" X 12" light brown square pattern.
	NNN	Wall - Sheetrock	6000 Sq. Ft.	1	?	?	?	?	Assumed Neg	Ultra-wall/untaped sheetrock, non-asbestos containing material.
	005	Fitting - Domestic Water Fitting	6 Fittings		1	8	6	0	Positive	
	NNN	Wall - Sheetrock	0 Sq. Ft.		?	?	?	?	Assumed Neg	Ultra-wall/untaped sheetrock, non-asbestos containing material.
	AAA	Wall - Transite	560 Sq. Ft.		1	5	0	0	Assumed Pos	
	NNN	Piping - Unspecified Type	0 Sq. Ft.		?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.

Table H-2: Asbestos Survey Disclosure Data
Space Detail Report for Griffiss Air Force Base

Building : 245 WAREHOUSE

Space	ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
	001	Ceiling - Sheetrock	542 Sq. Ft.	1	1	2	1	0	Positive	Wall and ceiling material considered identical.
	005	Fitting - Domestic Water Fitting	6 Fittings	1	1	8	6	0	Positive	
	001	Wall - Sheetrock	1500 Sq. Ft.	1	2	5	1	0	Positive	
	001	Fitting - Steam			?	?	?	?		
	001	Ceiling - Sheetrock	542 Sq. Ft.		1	2	1	0	Positive	Wall and ceiling material considered identical.
	NNN	Piping - Unspecified Type	6000 Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	001	Wall - Sheetrock	1500 Sq. Ft.		2	5	1	0	Positive	
	002	Piping - Steam		1	?	?	?	?		
	002	Piping - Steam			?	?	?	?		
	004	Piping - Domestic Water	25 Lin. Ft.	1	1	5	1	0	Positive	
	004	Piping - Domestic Water	Lin. Ft.		1	5	1	0	Positive	
	001	Fitting - Steam		1	?	?	?	?		
SHOP	Floor: 01	Shop(maint Or Class)		7						
	AAA	Wall - Transite	588 Sq. Ft.	7	1	5	0	0	Assumed Pos	
	AAA	Floor - Vinyl Composite Tile	380 Sq. Ft.	7	2	8	0	0	Assumed Pos	12" X 12" white with black streaks; 12" X 12" brick pattern over 9" X 9" green; 12" X 12" brick pattern; 9" X 9" green; 12" X 12" light brown square pattern.
	NNN	Piping - Unspecified Type	Sq. Ft.	7	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
SK1 STOR	Floor: 01	Recreation								
	003	Floor - Vinyl Composite Tile			?	?	?	?		
STEAM EN	Floor: 01	Recreation								
	004	Piping - Steam			?	?	?	?		

Table H-2: Asbestos Survey Disclosure Data
Space Detail Report for Griffiss Air Force Base

Building : 245 WAREHOUSE

Space	ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
	005	Fitting - Steam			?	?	?	?		
	003	Floor - Vinyl Composite Tile			?	?	?	?		
STOR1	Floor: 01	Storage		1						
	001	Ceiling - Sheetrock	247 Sq. Ft.	1	1	2	1	0	Positive	Wall and ceiling material considered identical.
	001	Wall - Sheetrock	387 Sq. Ft.	1	1	5	1	0	Positive	
	003	Piping - Heating Hot Water	3 Lin. Ft.	1	4	5	3	0	Positive	
	004	Piping - Domestic Water	19 Lin. Ft.	1	1	5	1	0	Positive	
	005	Fitting - Domestic Water Fitting	2 Fittings	1	1	5	6	0	Positive	
	AAA	Wall - Transite	104 Sq. Ft.	1	1	8	0	0	Assumed Pos	
	AAA	Floor - Vinyl Composite Tile	247 Sq. Ft.	1	1	8	0	0	Assumed Pos	12" X 12" white with black streaks; 12" X 12" brick pattern over 9" X 9" green; 12" X 12" brick pattern; 9" X 9" green; 12" X 12" light brown square pattern.
STOR2	Floor: 01	Storage		3						
	001	Ceiling - Sheetrock	380 Sq. Ft.	3	1	2	1	0	Positive	
	AAA	Wall - Transite	588 Sq. Ft.	3	1	5	0	0	Assumed Pos	
	AAA	Floor - Vinyl Composite Tile	380 Sq. Ft.	3	1	8	0	0	Assumed Pos	12" X 12" white with black streaks; 12" X 12" brick pattern over 9" X 9" green; 12" X 12" brick pattern; 9" X 9" green; 12" X 12" light brown square pattern.
STOR3	Floor: 01	Storage		2						
	001	Wall - Sheetrock	422 Sq. Ft.	2	1	5	1	0	Positive	
	001	Ceiling - Sheetrock	288 Sq. Ft.	2	1	2	1	0	Positive	Wall and ceiling material considered identical.
	AAA	Wall - Transite	24 Sq. Ft.	2	1	5	0	0	Assumed Pos	
	AAA	Floor - Vinyl Composite Tile	288 Sq. Ft.	2	1	8	0	0	Assumed Pos	12" X 12" white with black streaks; 12" X 12" brick pattern over 9" X 9" green; 12" X 12" brick pattern; 9" X 9" green; 12" X 12" light brown square pattern.
TOIL	Floor: 01	Toilet/bathroom		8						
	002	Wall - Plaster	456 Sq. Ft.	8	1	5	0	0	Negative	
	002	Ceiling - Plaster	185 Sq. Ft.	8	1	2	0	0	Negative	Wall and ceiling material considered identical.

Table H-2: Asbestos Survey Disclosure Data

Space Detail Report for Griffiss Air Force Base

Building : 247 ADMINISTRATIVE

Space ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
COOLER Floor: 01	Misc / Mixed Use Room		8						Space above ceiling was partially inaccessible.
NNN	Piping - Unspecified Type	572 Sq. Ft.	8	?	?	?	?	Assumed Neg	Foam rubber, non-asbestos containing material.
004	Duct Insulation	350 Sq. Ft.	8	1	0	1	0	Negative	White canvas over fiberglass. Above ceiling.
EXT Floor: 0X	Exterior		8						No suspected asbestos containing material in space.
NNN	Piping - Unspecified Type	2700 Sq. Ft.	8	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Under metal jacket.
NNN	Fitting - Unspecified Type	Sq. Ft.	8	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
NNN	Piping - Unspecified Type	Sq. Ft.	8	?	?	?	?	Assumed Neg	Foam rubber, non-asbestos containing material.
HALL1 Floor: 01	Hallway Or Stairs		1						Space above ceiling was partially inaccessible.
001	Ceiling - Sheetrock	444 Sq. Ft.	1	1	2	1	0	Positive	
AAA	Floor - Vinyl Composite Tile	Sq. Ft.	1	4	8	0	0	Assumed Pos	9" X 9" green; 9" X 9" brown; 9" X 9" white.
NNN	Piping - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
NNN	Wall - Sheetrock	Sq. Ft.	1	?	?	?	?	Assumed Neg	Ultra-wall/untaped sheetrock, non-asbestos containing material.
HRLL2 Floor: 01	Hallway Or Stairs		2						
AAA	Floor - Vinyl Composite Tile	312 Sq. Ft.	2	0	8	0	0	Assumed Pos	12" X 12" white.
NNN	Insulation Batts	Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
001	Wall - Sheetrock	830 Sq. Ft.	2	1	5	1	0	Positive	
NNN	Ceiling - Lay-in Tile	312 Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
LAB1 Floor: 01	Laboratory		1						Interior of doors may be insulated, unable to confirm.
005	Fitting - Domestic Water Fitting	12 Fittings	1	1	0	6	0	Negative	Mud fittings on fiberglass line. Above ceiling.
NNN	Fitting - Unspecified Type	750 Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Partially above ceiling.
NNN	Piping - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Partially above ceiling.
NNN	Duct Insulation	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.

Table H-2: Asbestos Survey Disclosure Data
Space Detail Report for Griffiss Air Force Base

Building : 247 ADMINISTRATIVE

Space ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
AAA	Ceiling - Lay-in Tile	750 Sq. Ft.	1	1	2	3	0	Assumed Pos	2' X 4' white fissured pattern.
004	Duct Insulation	265 Sq. Ft.	1	1	0	1	0	Negative	White canvas over fiberglass. Above ceiling.
003	Floor - Unspecified Type	750 Sq. Ft.	1	0	8	0	0	Negative	Non-stick poured floor, pink.
001	Wall - Sheetrock	856 Sq. Ft.	1	1	5	1	0	Positive	Partially above ceiling.
NNN	Wall - Sheetrock	750 Sq. Ft.	1	?	?	?	?	Assumed Neg	Ultra-wall/untaped sheetrock, non-asbestos containing material.
LAB2 Floor: 01	Laboratory		1						Interior of doors may be insulated, unable to confirm.
NNN	Fitting - Unspecified Type	1400 Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
NNN	Piping - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
NNN	Wall - Sheetrock	Sq. Ft.	1	?	?	?	?	Assumed Neg	Ultra-wall/untaped sheetrock, non-asbestos containing material.
NNN	Insulation Batts	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
NNN	Duct Insulation	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
AAA	Ceiling - Lay-in Tile	1300 Sq. Ft.	1	1	2	3	0	Assumed Pos	2' X 4' white fissured pattern.
005	Fitting - Domestic Water Fitting	8 Fittings	1	1	0	6	0	Negative	Mud fittings on fiberglass line. Above ceiling.
004	Duct Insulation	460 Sq. Ft.	1	2	0	1	0	Negative	White canvas over fiberglass. Above ceiling.
003	Floor - Unspecified Type	1200 Sq. Ft.	1	1	8	0	0	Negative	Non-stick poured floor, pink.
001	Wall - Sheetrock	264 Sq. Ft.	1	1	5	1	0	Positive	
001	Ceiling - Sheetrock	254 Sq. Ft.	1	2	0	1	0	Positive	Wall and ceiling material considered identical.
NNN	Piping - Unspecified Type	1400 Sq. Ft.	1	?	?	?	?	Assumed Neg	Foam rubber, non-asbestos containing material.
AAA	Wall - Unspecified Type	1800 Sq. Ft.	1	0	0	3	0	Assumed Pos	Interior of metal wall appeared to be insulated with honeycombed paper, unable to sample.
MECH1 Floor: 01	Mechanical Room		2						Interior of doors may be insulated, unable to confirm.
NNN	Duct Insulation	442 Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
NNN	Piping - Unspecified Type	Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.

Table H-2: Asbestos Survey Disclosure Data
Space Detail Report for Griffiss Air Force Base

Building : 247 ADMINISTRATIVE

Space	ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
	NNN	Piping - Unspecified Type	442 Sq. Ft.	2	?	?	?	?	Assumed Neg	Foam rubber, non-asbestos containing material.
	NNN	Fitting - Unspecified Type	Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	016	Mech Equip. - Heat Exchanger	17 Sq. Ft.	2	1	2	6	0	Positive	
	011	Fitting - Steam	12 Fittings	2	1	3	6	0	Positive	
	010	Piping - Steam	45 Lin. Ft.	2	1	3	6	0	Positive	
	009	Fitting - Heating Hot Water	35 Fittings	2	0	2	6	0	Negative	Mud fittings on fiberglass line.
	008	Piping - Heating Hot Water	80 Lin. Ft.	2	2	2	1	0	Negative	Canvas and foil over fiberglass.
	007	Fitting - Domestic Water Fitting	16 Fittings	2	1	3	6	0	Negative	Mud fittings on fiberglass line.
	004	Duct Insulation	100 Sq. Ft.	2	2	5	1	0	Negative	White canvas over fiberglass.
	NNN	Hvac - Flexible Duct/flex Duct Joint	442 Sq. Ft.	2	?	?	?	?	Assumed Neg	Rubber/vinyl material.
MECH2	Floor: 01	Mechanical Room		1						Interior of doors may be insulated, unable to confirm. Electrical panels in space may be asbestos containing, unable to survey due to high voltage.
	NNN	Fitting - Unspecified Type	336 Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	NNN	Piping - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	Foam rubber, non-asbestos containing material.
	AAA	Wall - Unspecified Type	288 Sq. Ft.	1	0	2	3	0	Assumed Pos	Interior of metal wall appeared to be insulated with honeycombed paper, unable to sample.
	NNN	Insulation Batts	336 Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Behind wall.
	NNN	Piping - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	AAA	Hvac - Flexible Duct/flex Duct Joint	24 Sq. Ft.	1	0	2	3	0	Assumed Pos	Canvas-like material.
	NNN	Duct Insulation	336 Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	014	Piping - Steam	85 Lin. Ft.	1	2	5	1	0	Negative	Tar foil over fiberglass.
	013	Fitting - Steam	7 Fittings	1	1	5	6	0	Positive	Mud fittings on fiberglass line.
	012	Piping - Steam	14 Lin. Ft.	1	1	5	1	0	Positive	White canvas over fiberglass.
	011	Fitting - Steam	4 Fittings	1	0	2	6	0	Positive	
	011	Fitting - Steam	3 Fittings	1	1	2	6	0	Positive	
	010	Piping - Steam	7 Lin. Ft.	1	1	5	6	0	Positive	
	006	Fitting - Domestic Water Fitting	10 Fittings	1	1	5	6	0	Trace	Mud fittings on fiberglass line.
	015	Fitting - Steam	40 Fittings	1	1	5	6	0	Negative	Mud fittings on fiberglass line.
	010	Piping - Steam	22 Lin. Ft.	1	1	2	6	0	Positive	

Table H-2: Asbestos Survey Disclosure Data

Space Detail Report for Griffiss Air Force Base

Building : 247 ADMINISTRATIVE

Space	ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
OFF	Floor: 01	Office		1						Interior of doors may be insulated, unable to confirm. Electrical panels in space may be asbestos containing, unable to survey due to high voltage.
	AAA	Ceiling - Lay-in Tile	1700 Sq. Ft.	1	1	2	3	0	Assumed Pos	2' X 4' white fissured pattern.
	NNN	Hvac - Flexible Duct/flex Duct Joint	3400 Sq. Ft.	1	?	?	?	?	Assumed Neg	Non-asbestos containing green canvas. Above ceiling.
	NNN	Piping - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
	NNN	Floor - Unspecified Type	Sq. Ft.	1	?	?	?	?	Assumed Neg	Various types of non-asbestos containing raised computer floor.
	AAA	Floor - Vinyl Composite Tile	280 Sq. Ft.	1	2	8	0	0	Assumed Pos	9" X 9" green; 9" X 9" brown; 9" X 9" white.
	NNN	Wall - Sheetrock	3400 Sq. Ft.	1	?	?	?	?	Assumed Neg	Ultra-wall/untaped sheetrock, non-asbestos containing material.
	NNN	Duct Insulation	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
	NNN	Insulation Batts	Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
	002	Floor - Mastic	850 Sq. Ft.	1	0	0	0	0	Trace	Used on supports for raised computer floor.
	AAA	Wall - Unspecified Type	1300 Sq. Ft.	1	0	0	3	0	Assumed Pos	Interior of metal wall appeared to be insulated with honeycombed paper, unable to sample.
	015	Fitting - Steam	2 Fittings	1	1	0	6	0	Negative	Mud fittings on fiberglass line. Partially above ceiling and below floor.
	001	Wall - Sheetrock	1200 Sq. Ft.	1	1	5	1	0	Positive	
	014	Piping - Steam	34 Lin. Ft.	1	1	5	1	0	Negative	Tar foil over fiberglass. Partially above ceiling and below floor.
	013	Fitting - Steam	2 Fittings	1	1	0	6	0	Positive	Partially above ceiling and below floor. Mud fittings on fiberglass line.
	012	Piping - Steam	34 Lin. Ft.	1	1	5	1	0	Positive	Partially above ceiling and below floor. White canvas over fiberglass.
	011	Fitting - Steam	2 Fittings	1	0	0	6	0	Positive	Partially above ceiling and below floor.
	010	Piping - Steam	34 Lin. Ft.	1	1	5	6	0	Positive	Partially above ceiling and below floor.
	004	Duct Insulation	330 Sq. Ft.	1	1	0	1	0	Negative	White canvas over fiberglass. Above ceiling.
	AAA	Ceiling - Lay-in Tile	1700 Sq. Ft.	1	1	2	3	0	Assumed Pos	2' x 2' white fissured pattern.

Table H-2: Asbestos Survey Disclosure Data
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Building : 247 ADMINISTRATIVE

Space ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
NNN	Fitting - Unspecified Type	3400 Sq. Ft.	1	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
ROOF1 Floor:	2R Roof		7						
AAA	Roof - Asphalt And Gravel	2900 Sq. Ft.	7	0	8	0	0	Assumed Pos	
ROOF2 Floor:	1R Roof		7						
AAA	Roof - Asphalt And Gravel	540 Sq. Ft.	7	0	8	0	0	Assumed Pos	
ROOF3 Floor:	3R Roof		7						
NNN	Duct Insulation	1300 Sq. Ft.	7	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
NNN	Piping - Unspecified Type	Sq. Ft.	7	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
NNN	Fitting - Unspecified Type	Sq. Ft.	7	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
AAA	Roof - Asphalt And Gravel	Sq. Ft.	7	0	8	0	0	Assumed Pos	
ROOF4 Floor:	2R Roof		7						
NNN	Fitting - Unspecified Type	2600 Sq. Ft.	7	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
NNN	Piping - Unspecified Type	Sq. Ft.	7	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
NNN	Duct Insulation	Sq. Ft.	7	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
AAA	Roof - Asphalt And Gravel	Sq. Ft.	7	0	8	0	0	Assumed Pos	
ROOF6 Floor:	1R Roof		7						
AAA	Roof - Asphalt And Gravel	312 Sq. Ft.	7	0	8	0	0	Assumed Pos	
VAULT1 Floor:	01 Office		1						Interior of doors may be insulated, unable to confirm.
AAA	Floor - Vinyl Composite Tile	2200 Sq. Ft.	1	2	2	0	0	Assumed Pos	Below raised computer floor: 9" X 9" green or 9" X 9" gray. Partially under carpet.
NNN	Wall - Sheetrock	Sq. Ft.	1	?	?	?	?	Assumed Neg	Ultra-wall/untaped sheetrock, non-asbestos containing material.
001	Ceiling - Sheetrock	20 Sq. Ft.	1	2	0	1	0	Positive	Wall and ceiling material considered identical.
001	Wall - Sheetrock	140 Sq. Ft.	1	1	5	1	0	Positive	
NNN	Floor - Unspecified Type	2200 Sq. Ft.	1	?	?	?	?	Assumed Neg	Various types of non-asbestos containing raised computer floor.
AAA	Ceiling - Lay-in Tile	Sq. Ft.	1	1	2	3	0	Assumed Pos	2' X 4' white fissured pattern.
VAULT2 Floor:	01 Computer Room		2						
AAA	Floor - Vinyl Composite Tile	300 Sq. Ft.	2	1	0	0	0	Assumed Pos	Below raised computer floor: 9" X 9" green or 9" X 9" gray.
AAA	Ceiling - Lay-in Tile	2600 Sq. Ft.	2	1	2	3	0	Assumed Pos	2' X 4' white fissured pattern.
002	Floor - Mastic	650 Sq. Ft.	2	0	0	0	0	Trace	Used on supports for raised computer floor.

Table H-2: Asbestos Survey Disclosure Data
Space Detail Report for Griffiss Air Force Base

Building : 247 ADMINISTRATIVE

Space	ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
	NNN	Duct Insulation	2600 Sq. Ft.	2	?	?	?	?	Assumed Neg	Foam rubber, non-asbestos containing material.
	NNN	Floor - Unspecified Type	Sq. Ft.	2	?	?	?	?	Assumed Neg	Various types of non-asbestos containing raised computer floor.
	NNN	Wall - Sheetrock	Sq. Ft.	2	?	?	?	?	Assumed Neg	Ultra-wall/untaped sheetrock, non-asbestos containing material.
	NNN	Piping - Unspecified Type	Sq. Ft.	2	?	?	?	?	Assumed Neg	Foam rubber, non-asbestos containing material.
	001	Wall - Sheetrock	280 Sq. Ft.	2	0	5	1	0	Positive	
EXT	Floor:	0X Exterior		7						
	AAA	Wall - Transite	1900 Sq. Ft.	7	2	5	0	0	Assumed Pos	
MECH	Floor:	01 Mechanical Room		2						
	NNN	Piping - Unspecified Type	448 Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Foam rubber, non-asbestos containing material.
	NNN	Hvac - Flexible Duct/flex Duct Joint	Sq. Ft.	2	?	?	?	?	Assumed Neg	Black canvas-like material.
	AAA	Door Core Insulation / Fire Door	48 Sq. Ft.	2	0	2	1	0	Assumed Pos	Material assumed to contain asbestos, material found inside door but was not able to sample.
	AAA	Hvac System - Duct Surface - Trowelle	350 Sq. Ft.	2	2	5	6	0	Assumed Pos	Material assumed asbestos containing due to previous survey: sample number GM880151(Heating duct.)
	003	Fitting - Domestic Water Fitting	4 Fittings	2	1	5	6	0	Positive	Mud fittings on fiberglass line.
	AAA	Fitting - Steam	30 Fittings	2	1	2	6	0	Assumed Pos	Material assumed asbestos containing due to previous survey: sample number GM880151(Heating duct.)
MECH2	Floor:	01 Mechanical Room		2						
	002	Floor - Mastic	56 Sq. Ft.	2	1	8	1	0	Negative	
	002	Floor - Mastic	128 Sq. Ft.	2	1	8	1	0	Negative	
	003	Fitting - Domestic Water Fitting	22 Fittings	2	1	5	6	0	Positive	Mud fittings on fiberglass line. Partially above ceiling.
	AAA	Fitting - Steam	12 Fittings	2	1	5	6	0	Assumed Pos	Material assumed asbestos containing due to previous survey: sample number GM880151(Heating duct.)
	NNN	Duct Insulation	56 Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
	NNN	Ceiling - Sheetrock	Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.
	NNN	Mech Equip. - Heat Exchanger	Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing.

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Building : 248 ADMINISTRATIVE

Space	ID	Material ID	Quantity	Priority	RF1	RF4	RF5	RF6	Lab Results	Comments
	NNN	Piping - Unspecified Type	56 Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Partially above ceiling.
	001	Ceiling - Sheetrock	24 Sq. Ft.	2	1	2	1	0	Negative	
OFF	Floor:	01 Office		2						
	AAA	Floor - Vinyl Composite Tile	3000 Sq. Ft.	2	0	0	0	0	Assumed Pos	12" X 12" tan; in some areas, color and size indistinguishable due to carpeting. Under carpet.
	NNN	Piping - Unspecified Type	Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
	AAA	Ceiling - Lay-in Tile	Sq. Ft.	2	1	2	3	0	Assumed Pos	2' X 4' white fissured pattern.
	003	Fitting - Domestic Water Fitting	22 Fittings	2	0	2	6	0	Positive	Above ceiling. Mud fittings on fiberglass line.
	001	Wall - Sheetrock	1700 Sq. Ft.	2	1	5	1	0	Negative	
	NNN	Duct Insulation	3000 Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
ROOF1	Floor:	1R Roof		7						
	AAA	Roof - Asphalt And Gravel	300 Sq. Ft.	7	1	8	0	0	Assumed Pos	
ROOF2	Floor:	1R Roof		7						
	AAA	Roof - Asphalt And Gravel	460 Sq. Ft.	7	1	8	0	0	Assumed Pos	
ROOF3	Floor:	2R Roof		7						
	AAA	Roof - Asphalt And Gravel	4000 Sq. Ft.	7	1	8	0	0	Assumed Pos	
TOIL	Floor:	01 Toilet/bathroom		2						Pipe chase is included in toilet space, there may be thermal systems insulation included in pipe chase.
	NNN	Duct Insulation	133 Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
	NNN	Piping - Unspecified Type	Sq. Ft.	2	?	?	?	?	Assumed Neg	Fiberglass, non-asbestos containing. Above ceiling.
	AAA	Fitting - Steam	2 Fittings	2	1	5	6	0	Assumed Pos	Partially above ceiling. Material assumed asbestos containing due to previous survey: sample number GM880151(Heating duct.)
	AAA	Floor - Vinyl Composite Tile	119 Sq. Ft.	2	0	8	0	0	Assumed Pos	9" X 9" green.
	003	Fitting - Domestic Water Fitting	6 Fittings	2	0	0	6	0	Positive	Mud fittings on fiberglass line.
	001	Ceiling - Sheetrock	119 Sq. Ft.	2	1	2	1	0	Negative	
A/H ROOM	Floor:	01 Mechanical Room								