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ENVIRONMENTAL BUILDING SURVEY AND SUBSURFACE SOIL INVESTIGATION
BUILDING 220 NS GREAT LAKES IL
2/23/2005
ENVIRONMENTAL DESIGN INTERNATIONAL INC

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ENVIRONMENTAL BUILDING SURVEY AND SUBSURFACE SOIL INVESTIGATION

Project Site:

Great Lakes Naval Training Center
Building 220
Great Lakes, Illinois

Environmental Design International inc.

ENVIRONMENTAL BUILDING SURVEY AND SUBSURFACE SOIL INVESTIGATION

Project Site:

Great Lakes Naval Training Center
Building 220
Great Lakes, Illinois

Project # 421.022

Prepared for:

Teng & Associates
205 N. Michigan Avenue
Chicago, Illinois 60601

Prepared By:

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February 23, 2005

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February 23, 2005

Mr. Jacques Cattan
Teng and Associates, Inc.
205 N. Michigan Avenue
Chicago, Illinois 60601

Re: Environmental Building Survey and Subsurface Soil Investigation
Great Lakes Naval Training Center
Building 220
Great Lakes, Illinois
EDI Project No.: 421.022

Dear Mr. Cattan:

Enclosed please find two copies of the report summarizing the Environmental Building Survey and Subsurface Soil Investigation conducted by Environmental Design International inc. (EDI), for the Great Lakes Naval Center, Building 220 in Great Lakes, Illinois.

Please feel free to call Rey Noriega at (312) 356-5400 x143 or Patricia Feeley at x136 for any assistance.

We have appreciated the opportunity to work with you on this project.

Respectfully,

Environmental Design International, inc.

Reynaldo Noriega

Reynaldo Noriega
Manager, Industrial Hygiene Department

Patricia Feeley/HG

Patricia Feeley, P.G.
Environmental Health and Safety Manager

Enclosures

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EXECUTIVE SUMMARY

At the request of Mr. Jacques Cattan with the Teng & Associates, Inc. (Teng), Environmental Design International, inc. (EDI) conducted an environmental building survey and a subsurface soil investigation for the Great Lakes Naval Training Center, NEX Laundry Building 220 in Great Lakes, Illinois. The work performed was in accordance with the proposal dated September 3, 2004.

The subject property is located on the Great Lakes Naval Base just north of Bronson Avenue. The subject property consists of a rectangular building approximately 15,000 square feet with associated asphalt drives and parking areas. Building 220 was constructed in 1947 and is currently used as a dry cleaners and laundry facility. The building is a wood with steel beam structure with an upper storage area located in the middle of the building. The building includes offices, a break room, men and women's restrooms, a chemical storage area and an upper storage space.

The following is a summary of the findings and recommendations for the environmental work performed at the Great Lakes Navel Center, NEX Laundry Building 220 in Great Lakes, Illinois.

Asbestos Survey

Janet Pruett and Edward Wagner, both IDPH licensed Asbestos Building Inspectors, license numbers 100-07666 and 100-01778, performed an asbestos inspection on January 27, 2005. The asbestos inspection included a visual examination of the building, including exterior and interior walls, floors, ceilings, insulated pipe coverings and roofing materials, to identify homogeneous areas of suspected ACM.

The asbestos inspection conducted at Building 220 located at Great Lakes Naval Training Center, Great Lakes, Illinois resulted in asbestos being identified in the materials sampled from five homogeneous areas:

Material	Estimated Quantity
• Transite wallboard (Throughout Interior)	40,000 SF
• Transite panels (Building Exterior)	30,000 SF
• Pipe insulation (Safe Room, Upper Room and North Pipe Room)	7,500 LF
• Hard fittings (Throughout)	850 EA
• 1' x 1' Ceiling Tile (Back Office – above drop ceiling)	100 SF

Asbestos abatement specification design is required, and precautions to minimize dust during demolition should be taken. An abatement cost estimate is provided in Appendix A.5 for planning purposes. An asbestos project designer may utilize the findings of this survey to develop an asbestos abatement design for demolition.

Lead Survey

A lead based paint survey to identify lead-based paint was performed on homogeneous areas throughout Building 220 on February 7, 2005. Paula Dillon, an IDPH licensed Lead Inspector performed the lead investigation using an X-Ray Fluorescent (XRF) analyzer.

A limited XRF inspection of Building 220 identified lead based paint in fair condition on the window frames in the Drying Room, Alteration Room and on the upper portion of the exterior window frames. According to IEPA guidelines, as long as the lead based paint adheres strongly to the surface of the building material, the building material may be disposed of as general demolition debris. However, if paint is chipped or peeling, the paint should be analyzed for TCLP lead to determine if the material qualifies as hazardous.

In addition, the demolition contractor should follow the OSHA Lead in Construction rule 29 CFR 1926.62 to ensure demolition worker safety.

Hazardous Material Survey

A hazardous materials survey was conducted by Zachery Clayton, representative of EDI, on January 21, 2005. The hazardous materials survey included the identification of chemicals and waste products, a description of chemical and waste storage and an estimation of the quantities observed the day of the site survey.

Various hazardous materials were observed on the subject property. Since demolition activities are planned for the property, the hazardous materials described in this section should be properly packaged, transported, and disposed of to ensure regulatory compliance.

Laundry machines, equipment and storage containers related to chemical usage should be properly removed prior to demolition.

If any of the above listed materials and associated equipment are to be relocated to the new laundry facility, proper packaging and transportation should be provided to guarantee no releases during relocation activities. Once the above listed materials have been placed in the new facility, they should be placed in appropriate approved storage containers or placed on appropriate secondary containment.

Further investigations should be conducted to determine if the fluorescent light ballasts contain PCBs.

Subsurface Soil Investigation

The subsurface soil investigation of 10 borings placed around Building 220 identified sand and gravel fill material near the surface that was underlain by clayey silts to a termination depth of 12 feet (ft) below ground surface (bgs). Groundwater depth varied across the site. Moist soils were observed at depths ranging from 5 to 12 ft. The variance in soil moisture could be due to recent

snowmelt. No elevated PID readings or odors were encountered during sampling.

VOCs were not detected in three of the soil samples collected. The remaining soil samples yielded analyte detections below the most stringent Tier 1 SROs. No remedial investigative action is recommended based on these results and current applicable regulations. As none of the detected VOCs exceed Tier 1 SROs, subsurface impacts from historical operations were not found to require remedial action.

1.0 INTRODUCTION

At the request of Mr. Jacques Cattan of Teng & Associates, Inc. (Teng), Environmental Design International, inc. (EDI) conducted an environmental building survey and a subsurface soil investigation for the Great Lakes Naval Training Center, NEX Laundry Building 220 in Great Lakes, Illinois ("subject property"). The subject property is slated for demolition. The work was performed in accordance with the proposal dated September 3, 2004. The environmental building survey included an asbestos building survey, a lead-based paint survey, and a hazardous materials survey.

1.1 Site Location and Property Description

The subject property is located on the Great Lakes Naval Base just north of Bronson Avenue in Great Lakes, Illinois. A site location map is provided as Figure 1.

The subject property consists of a one-story rectangular building approximately 15,000 square feet (no basement) with associated asphalt drives and parking areas. Building 220 was constructed in 1947, and has been used as a dry cleaners and laundry facility since. The building is a wood with steel beam structure with an upper storage area located in the middle of the building. The building includes offices, a break room, men and women's restrooms, sewing area, laundry area, a chemical storage area and an upper storage space.

1.2 Project Purpose and Background

Environmental Building Survey

Asbestos Survey

The purpose of the asbestos survey was to identify, sample, and verify by laboratory analysis all suspect asbestos containing materials (ACM) in interior and exterior areas of the building, in order to comply with U.S. Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations, which require identification of ACM prior to demolition of industrial, commercial, and public buildings.

Lead-Based Paint Survey

The purpose of the lead survey was to identify and verify by X-Ray Fluorescent testing all suspect lead-based paint areas in the building. Wall components, doors and window frames that were suspected of containing Lead-Based Paint (LBP), were evaluated using an X-Ray Fluorescence (XRF) Spectrum Analyzer.

Hazardous Materials Survey

Federal and State regulations require proper removal of hazardous materials prior to building demolition. An inventory of hazardous chemicals handled and stored on the subject property was performed to satisfy this requirement.

Subsurface Soil Investigation

The subsurface soil investigation was conducted to investigate potential impacts from current and historical business operations of the subject property as a dry cleaners and laundry facility. The principle contaminants of concern at dry cleaning facilities are volatile organic compounds namely tetrachloroethene (PCE and PERC) and trichloroethene (TCE). PCE is a chemical solvent used in the dry cleaning process and a suspected cancer-causing agent. When PCE is spilled in the soil, naturally present microorganisms can degrade PCE into trichloroethene (TCE), TCE into dichloroethene (DCE), DCE into vinyl chloride (VC), and VC into ethene or ethane. This process is called reductive dechlorination and it only happens under certain conditions. The transformation process can be positive if it is complete, because ethene and ethane are innocuous. However, some of the transformation products, such as VC are more toxic than PCE. Additional samples were collected for pH analysis and Organic Carbon, in case contamination was found, and a Tier 2 analysis of the data was necessary.

1.3 Scope of Work

EDI's Scope of Work performed on the subject property consisted of the following tasks:

Environmental Building Survey

1. Asbestos Survey
    a. Conducted an inspection of the building, which included visible areas of suspect asbestos containing materials (ACM).
    b. Collected bulk samples of suspect ACM, inspected accessible areas of the building, and collected a minimum of three samples per homogenous area.
    c. Submitted bulk samples of suspect ACM to an accredited laboratory for analysis by polarized light microscopy (PLM).
    d. Prepared this final report with conclusions and recommendations for ACM abatement, and drawings showing the locations of ACM.

2. Lead Based Paint Survey
    a. Conducted a visual inspection of the building.
    b. Analyzed building materials with suspected lead based paint on-site using an X-Ray Fluorescence (XRF) Spectrum Analyzer.
    c. Prepared this final report with conclusions and recommendations for the handling of Lead Based Paint.

3. Hazardous Materials Survey
    a. Conducted a visual assessment of hazardous chemicals handled and stored on the subject property.
    b. Provided an inventory of the hazardous material in this final report.

Subsurface Soil Investigation

a. Prepared a work plan and site-specific Health and Safety Plan (HASP).
b. Contacted JULIE prior to conducting the subsurface drilling investigation to identify and mark underground utilities and services on the subject property.
c. Conducted subsurface drilling and soil sampling at ten boring locations around the perimeter of Building 220 to investigate potential impacts from current and historic business operations.
d. Collected a minimum of two soil samples per boring, one near surface sample and one subsurface sample.
e. Submitted soil samples to an accredited laboratory for analysis of Volatile Organic Compounds (VOCs) by USEPA method 8260B.
f. Submitted two soil samples collected in areas not suspected of contamination for the following laboratory analysis:
   - pH (USPEA method 9045)
   - Fraction Organic Carbon (FOC) (American Society for Testing Materials (ASTM) method D-2974-00)
g. Tabulated analytical and field data and compared data to Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action (TACO) Soil Remediation Objectives (SROs).
h. Provided this final report to include the investigation, findings, and recommendations.

1.4 Report Organization

This report is organized as follows:

- *Executive Summary*, which summarizes the investigation components and results.
- *Section 1.0 Introduction*, which consists of background information and the scope of work.
- *Section 2.0 Asbestos Survey,* which includes asbestos survey methodology, survey results, applicable regulations and findings and recommendations.
- *Section 3.0 Lead–Based Paint Survey,* which includes lead survey methodology, survey results, applicable regulations and findings and recommendations.
- *Section 4.0 Hazardous Materials Survey,* which discusses the methodology, results and findings and recommendations of the hazardous materials survey.
- *Section 5.0 Subsurface Soil Investigation,* which discusses soil boring investigation methodology, the lithology of each soil boring, sample collection and documentation, and laboratory results and conclusions.
- *Section 6.0 Findings and Recommendations*
- *Section 7.0 Limitations*
- *Section 8.0 References*
- *Figures and Appendices,* provides documentation to support data referenced in the report

2.0 ASBESTOS SURVEY

The asbestos survey consisted of an inspection of the building in visibly accessible areas to determine and quantify suspect asbestos-containing materials (ACM), and collect samples for laboratory analysis. Douglas McCormick, an Illinois Department of Public Health (IDPH) licensed Asbestos Building Inspector, license number 100-08904, began the inspection on January 21, 2005. Janet Pruett and Edward Wagner, both IDPH licensed Asbestos Building Inspectors, license numbers 100-07666 and 100-01778, continued the inspection on January 27, 2005. Ms. Pruett returned to the building on February 7, 2005 to complete quantification of the building materials.

2.1 Asbestos Survey Methodology

During, the inspection, EDI performed a visual examination of the building, including visible exterior and interior walls, floors, ceilings, insulated pipe coverings and roofing materials, to identify homogeneous areas of suspected ACM. The asbestos survey did not include areas not visible or behind walls. Homogeneous areas are materials that are similar in color, texture, and general appearance, and which appear to have been installed in the same time period. Inspector credentials are provided in Appendix A.6. The asbestos survey was performed in accordance with EPA guidance document *Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials* (EPA 560/5085-030a, October 1985).

Bulk asbestos samples were then collected using wet sampling methods and a coring device or sample cutter, as appropriate, to collect a cross-section of the suspect material. Sample collection materials were decontaminated by washing with soap and water and dried by disposable towels to avoid cross contamination.

Bulk ACM samples were placed into clean and unused bags marked with a unique sample identification number (for example, #11-31). For each sample, the identification number, brief material description, location, condition and estimated quantity of ACM were recorded on a bulk sample log sheet.

Chain-of-Custody procedures were followed for this survey. These procedures provide a written tracking mechanism that lists the person responsible for the sample from collection to delivery to the laboratory. Sample identification numbers, sample locations and material descriptions were recorded on the chain of custody forms. Copies of the chain-of-custody forms are provided in Appendix A.1.

All samples were analyzed at EDI's asbestos laboratory, EDI Labs, Inc., in Chicago, Illinois, which is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). (See Appendix A.7 for laboratory accreditations.) Samples sent to EDI Labs were analyzed by PLM supplemented with dispersion staining. PLM is an EPA-approved method, which utilizes light microscope equipped with polarized filters (EPA Method 600/R-93/116).

2.2 Asbestos Survey Results

A total of seventy five (75) bulk samples were collected throughout the building, representing twenty five (25) homogeneous areas. Of the 25 homogenous areas, only five (5) were found to be asbestos containing:

- Transite wallboard (Throughout Interior)
- Transite panels (Building Exterior)
- Pipe insulation (Safe Room, Upper Room and North Pipe Room)
- Hard fittings (Throughout)
- 1' x 1' Ceiling Tile (Back Office – above drop ceiling)

The following table lists types of materials sampled and estimated quantities of each:

Homogeneous Area	Location	Estimated Quantity
12" x 12" Gray floor tile	Sewing room, Front Desk, Side Office	3000 SF
12" x 12" Gray floor tile mastic	Sewing room, Front Desk, Side Office	3000 SF
Green carpet	Back Office	200 SF
Green carpet mastic	Back Office	200 SF
Brown carpet	Office Restroom	10 SF
Brown carpet mastic	Office Restroom	10 SF
12" x 12" blue dot floor tile	Center East Room	200 SF
12" x 12" blue dot floor tile mastic	Center East Room	200 SF
12" x 12" beige floor tile	Mens Restroom, Womens Restroom	400 SF
12" x 12" beige floor tile mastic	Mens Restroom, Womens Restroom	400 SF
Gray base cove	Front Office	600 LF
Gray base cove mastic	Front Office	600 LF
Transite wall board	**Throughout Interior**	**40,000 SF**
Transite panels	**Throughout Exterior**	**30,000 SF**
Drywall joint compound	Dressing Room 1 Dressing Room 2 Storage Room	2,000 SF
2' x 4' worm ceiling tile	Womens Restroom, Mens Restroom, Locker Room	800 SF
2' x 4' fixed ceiling tile	Front Office	3,000 SF
1' x 1' ceiling tile	**Back Office (above drop ceiling)**	**100 SF**
Window glaze	Throughout	12 LF per window
Window caulk	Throughout	12 LF per window
Pipe insulation	**Safe Room, Upper**	**7,500 LF**

	Room, North Pipe Room	
Hard fittings	Upper Room and Throughout	850 EA
Roofing material	Roof	10,000 SF
Exterior paper	Roof	30,000 SF
Roof flashing	Roof	

Note: Highlighted homogeneous areas were identified as positive for asbestos

EPA defines ACM as a material that contains greater than one percent asbestos by PLM analysis.

An estimated 40,000 square feet (SF) of transite wallboard was observed throughout the building's interior. An estimated 30,000 SF of transite panels were observed on the exterior of the building. Thermal pipe insulation was observed in the safe room, upper room and north pipe room (a total of 7,500 LF). Approximately 850 hard fittings were observed throughout the building. A small area of 1' x 1' ceiling tile above the drop ceiling in the back office was observed. All ACM was observed to be in good condition.

Analytical results and chain of custody sheets are presented in Appendix A.1. ACM location sketches are presented in Appendix A.2. A summary of asbestos results is presented in Appendix A.3.

2.3 Applicable Regulations

EPA's NESHAP (40 CFR 61, Subpart M) categorizes asbestos-containing thermal system insulation (TSI) and sprayed-on or troweled-on asbestos as regulated ACM (RACM). Miscellaneous materials (floor tile and floor tile mastic) are classified as Category I Non-Friable Asbestos; and transite material is classified as Category II Non-Friable Asbestos, unless the material is made friable during demolition. Friable ACM is material that can be crumbled, pulverized, or reduced to a powder by hand.

NESHAP requires at least ten (10) working days' notification prior to any renovation or demolition activity that will disturb greater than 160 square feet or 260 linear feet of ACM materials. ACM removed during abatement must be disposed of at a landfill approved by the EPA to receive asbestos wastes.

The Occupational Safety and Health Administration (OSHA) Construction Industry Standard (29 CFR 1926.1101) categorizes the removal of spray-on asbestos or TSI as Class I removal work and flooring materials and transite materials as Class II removal work. Specific requirements for the removal of Class I and Class II materials include, but are not limited to, regulated work areas, air monitoring, engineering controls, work practices, personal protective equipment, notification and training.

IDPH requires that an IDPH-licensed abatement contractor perform removal of friable ACM from the interior of facilities. In addition, the personnel performing the asbestos removal must be IDPH-licensed workers overseen by an IDPH-licensed supervisor. Asbestos abatement must be

designed by an IDPH- licensed asbestos project designer.

The U.S. Department of Transportation (DOT) and Illinois Department of Transportation (IDOT) require special procedures for packaging, labeling and transportation of asbestos wastes to disposal facilities.

2.4 Findings and Recommendations

The asbestos inspection conducted at Building 220 located at Great Lakes Naval Training Center, Great Lakes, Illinois resulted in the identification of ACM from five homogeneous areas:

Material	Estimated Quantity
• Transite wallboard (Throughout Interior)	40,000 SF
• Transite panels (Building Exterior)	30,000 SF
• Pipe insulation (Safe Room, Upper Room and North Pipe Room)	7,500 LF
• Hard fittings (Throughout)	850 EA
• 1' x 1' Ceiling Tile (Back Office – above drop ceiling)	100 SF

Asbestos abatement specification design is required, and precautions to minimize dust during demolition should be taken. An abatement cost estimate is provided in Appendix A.5 for planning purposes. An asbestos project designer may utilize the findings of this survey to develop an asbestos abatement design for demolition.

3.0 LEAD-BASED PAINT SURVEY

A survey to identify lead-based paint was performed on homogeneous areas throughout Building 220 on February 7, 2005. Paula Dillon, an IDPH licensed Lead Inspector performed the lead investigation using an X-Ray Fluorescent (XRF) analyzer.

3.1 Lead Based Paint Survey Methodology

EDI performed a limited lead-based paint survey of the interior and exterior walls, doors and window frames (interior and exterior) using a MAP-4 XRF analyzer. The inspection was conducted in accordance with the 1997 revision of the HUD "*Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*", using the single and/or multi-dwelling family unit approach. Inspector credentials are provided in Appendix B.2.

3.2 Lead-Based Paint Survey Results

Paint observed throughout the building was observed to be in fair condition. Detailed XRF test results are located in Appendix B.1.

The following building surfaces were found to contain lead-based paint:

- Drying Room – Window Frame (East and West)
- Alteration Room – Window Frame (West)
- Building Exterior, Upper Portion – Window Frame (North, South, East and West)

HUD guidelines define lead-based paint as paint containing 0.5 percent or greater lead by weight (when calculated as lead metal in a dried solid form), or 1.0 milligrams per square centimeter (mg/cm^2) or greater using an XRF analyzer. In 1978, the U.S. Consumer Product Safety Commission lowered the legal maximum lead content in most paints to 0.06 percent.

3.3 Applicable Regulations

The HUD Guidelines cover topics such as lead-based paint inspections/risk assessments, abatement options and methods, worker protection, occupant protection, cleanup, clearance, and waste disposal. Except for those parts pertaining exclusively to housing, the guidelines can be used as resource information and methodologies for identifying and abating lead-based paint hazards in buildings.

The Illinois Administrative Code (Title 77, Chapter I845, and Subchapter p) defines lead abatement/mitigation as the remediation of a lead hazard so that the lead bearing substance does not pose an immediate health hazard to humans. A lead hazard is deemed to have been mitigated if the following conditions have been met:

- The surface that is the source of lead is no longer in a condition that produces a hazardous

level of leaded chips, flakes, dust or any other form of leaded substances, that can be ingested or inhaled by humans; or

- The leaded surface is not accessible to children, the surface coating is covered or the access to the leaded surface is otherwise prevented.

The Department of Transportation (DOT) and Illinois Department of Transportation (IDOT) require that during disposal, lead-based paint waste be properly containerized and transported by a licensed waste hauler.

3.4 Findings and Recommendations

A limited XRF inspection of Building 220 identified lead based paint in fair condition on the window frames in the Drying Room, Alteration Room and on the upper portion of the exterior window frames. According to IEPA guidelines, as long as the lead based paint adheres strongly to the surface of the building material, the building material may be disposed of as general demolition debris. However, if paint is chipped or peeling, the paint should be analyzed for TCLP lead to determine if the material qualifies as hazardous.

In addition, the demolition contractor should follow the OSHA Lead in Construction rule 29 CFR 1926.62 to ensure demolition worker safety.

4.0 HAZARDOUS MATERIALS SURVEY

4.1 Hazardous Materials Survey Methodology

Federal and State regulations require proper removal and disposal of hazardous materials prior to demolition. A hazardous materials survey was conducted by Zachery Clayton, representative of EDI, on January 21, 2005. The hazardous materials survey included the identification of chemicals and waste products, a description of chemical and waste storage and an estimation of the quantities observed the day of the site survey.

4.2 Hazardous Materials Survey Results

EDI observed various containers of chemical products on the subject property during the hazardous materials survey. A list of containerized chemicals follows:

- Twelve 30-gallon plastic drums of "Crystal Soltex" by Laid-law
- Two 55-gallon steel drums of waste tetrachloroethylene (PERC) on secondary containment
- Nine 1-gallon plastic containers of Volatile Dry Spotter (V.D.S.) by Laid-law
- Six 1-gallon plastic containers of WETSPO by Laid-law containing PERC
- Seven 1-gallon plastic containers of TERGIT spray spotter
- Five 1-gallon plastic containers of silk pre-spotter containing PERC
- Four 1-gallon plastic containers of BAN TAN
- Three 1-gallon plastic containers of CAL-STRIP (corrosive) by CALED
- Three 1-gallon plastic containers of Formula-Z by Laid-law
- One 1-gallon plastic container of Paint, Oil, and Grease Remover (P.O.G.) containing PERC
- Five 55-gallon drums of Oxy-Plus (hydrogen peroxide)
- One 300-gallon plastic above ground storage tank (AST) containing Laundry Sour Plus (28% fluorosilicic acid, UN 1778, PG II)
- One 300-gallon plastic AST containing dual-action concentrated detergent and additive
- One 300-gallon plastic AST containing PowerPlus-5000 (sodium hydroxide, 8, UN 1824, PG II)
- One 300-gallon plastic AST containing Linen Clean-Plus III
- One 300-gallon plastic AST containing fabric softener

A photolog depicting some of the above listed materials is included as Appendix C.1. All materials observed were either properly stored in appropriate storage containers or were placed on appropriate secondary containment. The material storage area and containers were in fair to good condition. The majority of the materials listed above were observed in yellow storage cabinets located along the north wall of the clothing storage area near the south end of the building. The 55-gallon steel drums containing PERC were observed on secondary containment just south of the yellow cabinets. The 30-gallon plastic drums of "Crystal Soltex" were observed near the dryer machines throughout the clothing storage area as well as in the area just east of the restrooms on the north end of the building. The 55-gallon drums of Oxy-Plus, and the ASTs were observed in the same area as the "Crystal Soltex" on the north side of the building.

In addition to the observed chemicals, an inventory of authorized hazardous materials used onsite was provided by the Great Lakes Naval Center. The materials listed are authorized for use at the facility, however, were not necessarily observed in use or in storage the day of the site survey. All but one of the materials observed (Formula-Z) were included on the authorized hazardous materials list. All hazardous materials onsite should be disposed of properly prior to demolition activities. The inventory is provided in Appendix C.2. Material Safety Data Sheets (MSDS) provided for selected hazardous materials are presented in Appendix C.3.

Older lighting ballasts may contain polychlorinated biphenyls (PCBs), which would require proper disposal.

4.3 Applicable Regulations

A substance is defined as a hazardous substance pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) as defined in 42 USC§ 9601. Hazardous wastes are defined in the Resource Conservation and Recovery Act (RCRA) amended to include section 3001 for the Solid Waste Disposal Act (42 USC § 6921). The properties for wastes exhibiting hazardous characteristics are identified in 40 CFR 261 and include ignitability, corrosivity, reactivity, and toxicity. EPA hazardous waste regulations contain lists of designated hazardous wastes in 40 CFR 261, Subpart D.

Illinois EPA has a classification for non-hazardous special wastes defined in IAC 35 Part 808, which includes petroleum and other non-hazardous chemical products. Special waste disposal is governed by this regulation, Part 809 for transportation, and Part 810 for Solid Waste Disposal.

Older electrical equipment including some ballasts have contained PCBs. The Toxic Substance Control Act of 1987 includes PCBs as a toxic substance. Regulations 40 CFR Part 761 is the PCBs spill cleanup policy for spills, leaks, or uncontrolled releases, such that could occur during demolition activities.

4.4 Findings and Recommendations

Various chemicals were observed on the subject property. Since demolition activities are planned for the property, the hazardous materials described in this section should be properly packaged, transported, and disposed of in accordance with regulatory compliance.

Laundry machines, equipment and storage containers related to chemical usage should be properly removed prior to demolition.

If any of the above listed materials and associated equipment are to be relocated to the new laundry facility, proper packaging and transportation should be provided to guarantee no releases during relocation activities. Once the above listed materials have been placed in the new facility, they should be placed in appropriate approved storage containers and placed on appropriate secondary containment.

Further investigations should be conducted to determine if the fluorescent light ballasts contain PCBs.

5.0 SUBSURFACE SOIL INVESTIGATION

Ten soil borings were advanced on February 3, 2005 in accordance with EDI's proposal dated September 3, 2004. A site map depicting soil boring locations is presented in Appendix D.1. Soil borings were placed around the perimeter of Building 220 to investigate potential impacts from dry cleaning and laundry business operations.

Ms. Hilary Janousek, Geologist with EDI, was onsite to direct the subsurface investigation and to collect soil samples. Site photographs of field activities are provided in Appendix D.3. Enviro-clean of South Holland, Illinois performed the drilling using a truck-mounted hydraulic Geoprobe®, which employs a direct-push sampling technique.

5.1 Subsurface Soil Investigation Methodology

Soil samples were collected using 4-foot boring rods with removable sample liners. The GeoProbe® drives the sealed samplers to the desired depth and releases the drive point. The boring rod is advanced, filling the sampler with an undisturbed soil core. The soil sample was contained in a 4-foot disposable clear sample liner. Each boring was advanced in intervals of 4 feet to depths of 12 feet. Continuous samples were collected and screened using a Mini-Rae photo-ionization detector (PID). Initial field screening with the PID consisted of taking two to three readings across the sample core. Based on the PID readings from the initial screening, samples were collected into laboratory supplied containers for laboratory analysis.

The samples associated with the highest PID reading were placed in laboratory-supplied sample jars and packed in coolers with ice for shipment to the analytical laboratory. If all of the headspace readings were near background, soil samples preserved for analysis were selected at varying depths for representative sampling.

The soil samples were visually inspected and classified in the field by the EDI geologist. Physical properties such as color, texture, consistency, degree of uniformity, degree of saturation and other important characteristics were noted in accordance with the Unified Soil Classification System (USCS). Soil boring logs are attached in Appendix D.4.

In addition, headspace analysis was performed with the PID by placing each soil sample in a dedicated sealable plastic bag, allowing volatile components to volatilize for at least five minutes, then inserting the PID probe into the plastic bag to measure the concentration of volatiles in the air space. Maximum readings from the PID were recorded on the soil boring logs.

The PID is a field-screening tool only, which measures total organic vapors but does not identify which organic vapors are present. The levels of organic vapors are an indication of the presence and level of organic volatiles. PID measurements do not meet regulatory requirements for analysis but are useful in determining which soil samples to submit for laboratory analysis.

5.1.1 Decontamination/Quality Control Procedures

The Geoprobe® equipment was decontaminated prior to each boring with an Alconox™ and water wash, a water rinse, and a deionized water rinse. The interior of the sampling probe was lined with a disposable plastic sheath, which was removed after each sample was collected.

A new pair of latex sampling gloves were donned for each sampling interval to minimize the potential for cross-contamination.

Following the Geoprobe® activities, disposable sampling materials brought on the site for the investigation were disposed by Enviroclean.

5.1.2 Chain-of-Custody

Chain-of-Custody procedures were followed for this investigation. Copies of the chain-of-custody forms are attached to the laboratory reports provided in Appendix D.5.

5.1.3 Laboratory Analysis

Laboratory soil samples were analyzed for VOCs following EPA method 5035/8260. Soil samples were submitted for laboratory analysis to Suburban Laboratories, Inc. of Hillside, Illinois, an IEPA certified laboratory.

5.2 Field Investigation

Soil samples were collected from a total of ten soil borings advanced to a maximum depth of 12 feet (ft) below ground surface (bgs). Soil boring locations are presented in Appendix D.1. Generally, soil samples were collected at shallow depths to investigate spills and near surface impacts. Deeper samples were analyzed to investigate contaminant migration and vertical extent of contamination on the subject property. Generally, PID readings were 0.0 ppm for each interval. Moist soils were observed at varying depths. This is believed to be in part due to recent snowmelt infiltrating the subsurface. The following is a description of soil boring locations and characteristics. Soil boring logs with complete descriptions are presented in Appendix D.4.

Soil boring B-1 was advanced near the front entrance of Building 220 14 ft south of the building and eight feet east of the west wall of the building. The subsurface generally consisted of sand and gravel in the 0-4 ft interval followed by clayey silt and silts to a termination depth of 12 ft bgs. Saturated soil was observed from 8 to 10 ft bgs. A PID reading of 0.0 ppm was recorded for all three intervals. No odors were observed. The soil samples chosen for analysis were collected at 3 and 7 ft bgs.

Soil boring B-2 was advanced 86 ft north of the south wall of the building and 15 ft west of the west wall. The subsurface generally consisted of white and gray sand and gravel in the 0-4 ft interval followed by clayey silt to a termination depth of 12 ft bgs. Soft, moist soils were

observed from 5 to 12 ft bgs. The soil samples chosen for analysis were collected at 3 and 5 ft bgs.

Soil boring B-3 was advanced 118 ft north of the south wall of the building and 13 ft west of the west wall near the wastewater recharge/discharge system. The subsurface generally consisted of sand and gravel followed by clayey silts to a termination depth of 12 ft bgs. The soil samples chosen for analysis were collected at 1 and 9 ft bgs.

Soil boring B-4 was advanced approximately 175 ft north of the south wall of the building and 9 ft west of the west wall near the wastewater recharge/discharge system. The subsurface generally consisted of sand and gravel then clayey silt to a termination depth of 12 ft bgs. Moist soils were observed at depths as shallow as 5 feet bgs. The soil samples chosen for analysis were collected at 3 and 5 ft bgs.

Soil boring B-5 was advanced 15 ft south of the north wall of the building and 10 ft west of the west wall near the AST solvent storage area. The subsurface generally consisted of sand and gravel from 0 to 2 ft followed by clayey silt and silt to a termination depth of 12 ft bgs. Moist soils were observed at depths as shallow as 3 ft bgs. The soil samples chosen for analysis were collected at 2 and 7 ft bgs.

Soil boring B-6 was advanced 7 ft north of Building 220 and 13 ft east of the west wall. The soil boring was advanced near a stained gravel area on the north side of the building just west of a garage door. The subsurface generally consisted of sand and gravel from 0 to 2 feet followed by clayey silts and silts to a termination depth of 12 ft bgs. Moist soils were observed throughout the boring. Saturated soils were observed from 8 to 10 ft bgs. The soil samples chosen for analysis were collected at 3 and 8 ft bgs.

Soil boring B-7 was advanced in a grassy area approximately 10 ft north of Building 220 in line with the east wall. A garage door is located to the west and an additional door is located along the east wall just south of the boring. The subsurface generally consisted of dark brown silt with organics and gray and white sand with gravel followed by silts and clayey silts to a termination depth of 12 ft bgs. The soil samples chosen for analysis were collected from 2 and 8 ft bgs.

Soil boring B-8 was advanced near the southeast corner of the building approximately 60 ft north of the south wall and 7 ft east of the east wall. The boring location was near a door on the east wall. The subsurface generally consisted of dark brown silt with organics and traces of gravel followed by 6 inches of asphalt, sand and gravel mix then clayey silts to a termination depth of 12 ft bgs. The soil samples chosen for analysis were collected from 3 and 6 ft bgs.

Soil boring B-9 was advanced approximately 110 ft north of the south wall and 6 ft east of the east wall. The boring location was north of a door on the east wall. The subsurface generally consisted of silts and clayey silts to a termination depth of 12 ft bgs. Moist soils were observed from 5 to 11 ft bgs. Soil samples chosen for analysis were collected from 3 and 10 ft bgs.

Soil boring B-10 was advanced approximately 205 ft north of the south wall and 7 ft east of the

east wall. The boring location was just south of a door on the east wall. The subsurface generally consisted of silts and clayey silts to a termination depth of 12 ft bgs. Moist soils were observed form 5-7 ft bgs. Soil samples chosen for analysis were collected from 2 and 9 ft bgs.

5.3 Laboratory Analytical Results

VOC soil analytical results are presented in tabular format Appendix D.2. The table provides the Illinois Environmental Protection Agency (IEPA) applicable Tier 1 Soil Remediation Objectives (SROs) for construction workers, industrial/commercial and residential properties provided in 35 IAC Part 742, TACO, Appendix B, Tables A and B.

Laboratory analytical data is provided in Appendix D.5. The data is summarized below.

Twenty soil samples were analyzed for VOCs. VOC concentrations were below laboratory reporting limits which were all below the most stringent Tier 1 SROs in three of the twenty soil samples analyzed (B-6 8 ft, B-7 8 ft and B-8 3 ft).

The analytes detected in the remaining soil samples include 2-Butanone (methyl ethyl ketone), acetone, benzene, carbon disulfide, chloroform, chloromethane, ethylbenzene, tetrachloroethene, and toluene. All of the detections were below the most stringent Tier 1 SROs as shown in the table below.

ANALYTE	Mig. To GW		February 3, 2005					
	Class I	Class II	B-1 3 feet	B-1 7 feet	B-2 3 feet	B-2 5 feet	B-3 1 feet	B-3 9 feet
	mg/kg	mg/kg	mg/kg					
2-Butanone (methyl ethyl ketone)	N.S.	N.S.	<0.00341	<0.00275	0.0035	<0.00360	<0.00408	<0.00368
Acetone	16[b]	16	0.0342	<0.0275	<0.0321	<0.036	<0.0408	<0.0368
Benzene	0.03	0.17	0.0002 J	0.00035J	0.0006 J	0.0012	0.00037 J	0.0012
Carbon Disulfide*	32[b]	160	0.00125	<0.000549	<0.000643	<0.000720	0.00232	<0.000736
Chloromethane (methyl chloride)	N.S.	N.S.	0.00151	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Ethylbenzene	13	19	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	0.000825
Tetrachloroethene	0.06	0.3	<0.000682	<0.000549	0.000797	0.00227	<0.000815	<0.000736
Toluene	12	29	<0.000682	<0.000549	<0.000643	0.00192	<0.000815	0.00221

ANALYTE	Mig. To GW		February 3, 2005					
	Class I	Class II	B-4 3 feet	B-4 5 feet	B-5 2 feet	B-5 7 feet	B-6 3 feet	B-7 2 feet
	mg/kg	mg/kg	mg/kg					
2-Butanone (methyl ethyl ketone)	N.S.	N.S.	<0.00342	<0.00354	0.00377	<0.00318	<0.00429	0.00499
Acetone	16[b]	16	<0.0342	<0.0354	<0.032	<0.0318	<0.0429	0.0434
Benzene	0.03	0.17	<0.000217	0.000757	<0.000203	0.00043 J	<0.000272	0.0004 J
Carbon Disulfide*	32[b]	160	0.00176	<0.000708	0.00175	<0.000637	<0.000859	0.00308
Chloroform*	0.6	2.9	<0.000685	<0.000708	<0.000640	<0.000637	0.00432	0.0033
Tetrachloroethene	0.06	0.3	0.00432	0.00177	<0.000640	<0.000637	<0.000859	<0.000775

ANALYTE	Mig. To GW		February 3, 2005				
	Class I	Class II	B-8 6 feet	B-9 3 feet	B-9 10 feet	B-10 2 feet	B-10 9 feet
	mg/kg	mg/kg	mg/kg				
2-Butanone (methyl ethyl ketone)	N.S.	N.S.	<0.00403	0.00872	<0.00340	<0.00362	<0.00393
Acetone	16[b]	16	<0.0403	0.0876	<0.034	<0.0362	<0.0393
Benzene	0.03	0.17	<0.000255	<0.000230	0.00033 J	0.00067 J	0.00052 J
Carbon Disulfide*	32[b]	160	<0.000806	0.00169	<0.000679	0.00495	<0.000786
Chloroform*	0.6	2.9	0.000935	<0.000724	<0.000679	<0.000723	<0.000786
Tetrachloroethene	0.06	0.3	<0.000806	<0.000724	<0.000679	0.00427	<0.000786

* Generally, the most stringent Tier 1 SROs are for the Class I and Class II soil migration to groundwater. However, for carbon disulfide the construction worker inhalation SRO is the most stringent at 9 mg/kg, and for chloroform, the residential inhalation SRO is the most stringent at 0.3 mg/kg.
J is a laboratory note that the analyte was positively identified above method detection limits and is considered detectable and usable. See laboratory report in Appendix D.5

5.4 Applicable Regulations

The Subsurface Soil Investigation was conducted in accordance with applicable subsections of the Illinois Environmental Protection Agency (IEPA), Title 35; Environmental Protection, Subtitle G: Waste Disposal, Chapter I: Pollution Control Board, Part 742, Tiered Approach to Corrective Action Objectives (TACO). The laboratory procedures and methods will meet the minimum specified detection limits in accordance with the Tiered Approach to Corrective Action Objectives (TACO) Tier 1 Soil Remediation Objectives set forth in Appendix B Tables A and B. This investigation meets the guidelines of the Illinois Site Remediation Program (SRP) defined in 35 Illinois Administrative Code (IAC) Part 740, and SW-846 laboratory protocols.

5.5 Findings and Recommendations

Relevant findings from the site subsurface investigation and laboratory analyses are:

1. The near surface soil at the site consisted of sand and gravel fill material that was underlain by clayey silts to a termination depth of 12 ft bgs. Groundwater depth varied across the site. Moist soils were observed at depths ranging from 5 to 12 ft. The variance in soil moisture could be due to recent snowmelt. No elevated PID readings or odors were encountered during sampling.

2. VOCs were not detected in three of the soil samples collected. The remaining soil samples yielded analyte detections below the most stringent Tier 1 SROs. No remedial investigative action is recommended based on these results and current applicable regulations. As none of the detected VOCs exceed Tier 1 SROs, subsurface impacts from historical operations were not found to require remedial action.

6.0 FINDINGS AND RECOMMENDATIONS

At the request of Mr. Jacques Cattan with the Teng & Associates, Inc. (Teng), Environmental Design International, inc. (EDI) conducted an environmental building survey and a subsurface soil investigation for the Great Lakes Naval Training Center, NEX Laundry Building 220 in North Chicago, Illinois. The work was performed in accordance with the proposal dated September 3, 2004.

The following is a summary of the findings and recommendations based on the environmental work performed at the subject property.

Environmental Building Survey

Asbestos Survey

The asbestos inspection conducted at the subject property resulted in the identification of ACM in five homogeneous areas:

Material	Estimated Quantity
• Transite wallboard (Throughout Interior)	40,000 SF
• Transite panels (Building Exterior)	30,000 SF
• Pipe insulation (Safe Room, Upper Room and North Pipe Room)	7,500 LF
• Hard fittings (Throughout)	850 EA
• 1' x 1' Ceiling Tile (Back Office – above drop ceiling)	100 SF

Asbestos abatement specification design is required, and precautions to minimize dust during demolition should be taken. An abatement cost estimate is provided in Appendix A.5 for planning purposes. An asbestos project designer may utilize the findings of this survey to develop an asbestos abatement design for demolition.

Lead Survey

A limited XRF inspection of Building 220 identified lead based paint in fair condition on the window frames in the Drying Room, Alteration Room and on the upper portion of the exterior window frames. According to IEPA guidelines, as long as the lead based paint adheres strongly to the surface of the building material, the building material may be disposed of as general demolition debris. However, if paint is chipped or peeling, the paint should be analyzed for TCLP lead to determine if the material qualifies as hazardous.

In addition, the demolition contractor should follow the OSHA Lead in Construction rule 29 CFR 1926.62 to ensure demolition worker safety.

Hazardous Material Survey

Various chemicals were observed on the subject property. Since demolition activities are planned for the property, the hazardous materials described in this section should be properly packaged, transported, and disposed of in accordance with regulatory compliance.

Laundry machines, equipment and storage containers related to chemical usage should be properly removed prior to demolition.

If any of the above listed materials and associated equipment are to be relocated to the new laundry facility, proper packaging and transportation should be provided to guarantee no releases during relocation activities. Once the above listed materials have been placed in the new facility, they should be placed in appropriate approved storage containers and placed on appropriate secondary containment.

Further investigations should be conducted to determine if the fluorescent light ballasts contain PCBs.

Subsurface Soil Investigation

The subsurface soil investigation of 10 borings placed around Building 220 identified sand and gravel fill material near the surface that was underlain by clayey silts to a termination depth of 12 ft bgs. Groundwater depth varied across the site. Moist soils were observed at depths ranging from 5 to 12 ft. The variance in soil moisture could be due to recent snowmelt. No elevated PID readings or odors were encountered during sampling.

VOCs were not detected in three of the soil samples collected. The remaining soil samples yielded analyte detections below the most stringent Tier 1 SROs. No remedial investigative action is recommended based on these results and current applicable regulations. As none of the detected VOCs exceed Tier 1 SROs, subsurface impacts from historical operations were not found to require remedial action.

7.0 LIMITATIONS

This report is based solely on the scope of work provided and the assumptions based on this environmental building survey and subsurface soil investigation. We request that any new information that becomes available concerning the subject property be provided to EDI so that our evaluations, conclusions, and recommendations may be revised and modified accordingly. All building materials tested are assumed to be homogeneous throughout the building.

EDI has documented in this report the results from the subsurface soil investigation performed at the subject property. The findings and conclusions in this report are not specific certainties; rather they are probabilities based on professional judgment concerning the significance of the data collected. EDI claims to represent only the specific findings documented herein and does not claim knowledge of conditions beyond the scope of the investigation.

The environmental building survey and subsurface soil investigation were conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the environmental profession under similar conditions. No other warranty or guarantee, express or implied, is included or intended in this Report or otherwise.

This report is intended for the use of Teng & Associates and entities designated by the aforementioned only, subject to the terms and conditions of EDI's Scope of Services and Fees for Professional Services Agreement dated September 3, 2004.

8.0 REFERENCES

Code of Federal Regulations (CFR), 40 CFR 763, (Asbestos Hazard Emergency Response Act)

Code of Federal Regulations (CFR), 29 CFR 1926.1101 (OSHA, Asbestos)

Code of Federal Regulations (CFR), 29 CFR 1926.62 (OSHA, Lead-Based Paint)

Code of Federal Regulations (CFR), 29 CFR 1910.134 (OSHA Respiratory Protection)

Code of Federal Regulations (CFR), 40 CFR 61 (NESHAP, Asbestos)

Code of Federal Regulations (CFR), 40 CFR 261 (Hazardous List)

State of Illinois Administrative Code, 35 Ill. Adm. Code 721.102, Subpart C

State of Illinois Administrative Code, 35 Ill. Adm. Code Section 733

State of Illinois Administrative Code, 35 Ill. Adm. Code Section 740 and 742 (SRP and TACO)

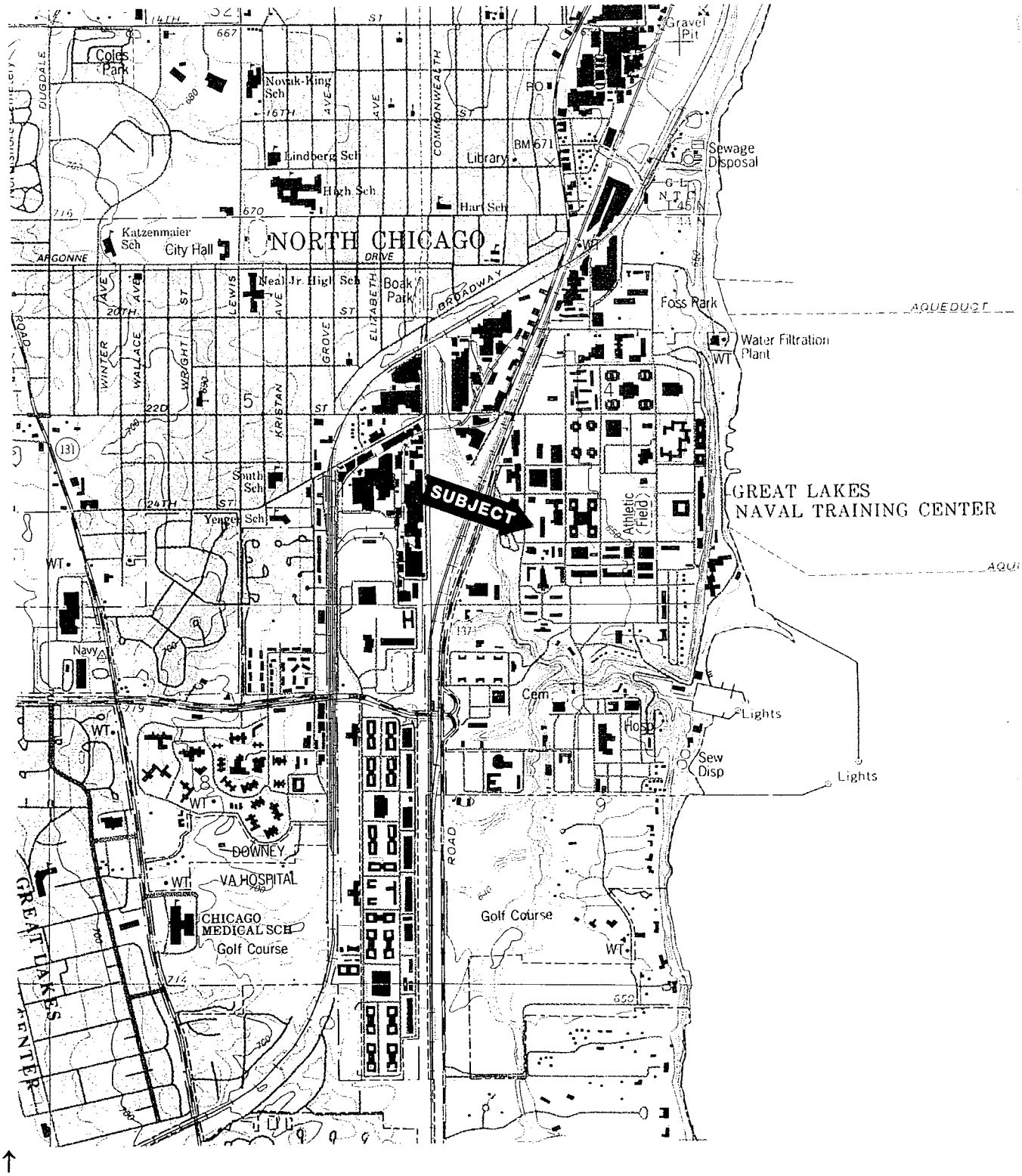
State of Illinois Administrative Code, 35 Ill. Adm. Code Section 808, 809, and 810 (Special Waste)

State of Illinois Administrative Code, 105 ILCS 105

State of Illinois Administrative Code, 225 ILCS 207

State of Illinois Administrative Code, 77 Ill. Adm. Code Section 855

U.S. Department of Housing and Urban Development, 1995. Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, Washington D.C.



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Scale 1: 24,000

Project No.: 421.022.03 Date: 2/9/05	SITE LOCATION AND TOPOGRAPHIC MAP FROM U.S. GEOLOGICAL SURVEY WAUKEGAN, ILLINOIS, 1993	Project: Great Lakes Naval Center Building 220 Great Lakes, Illinois
EDI *Environmental Design International inc.* *200 S. Michigan Avenue, Suite 700* *Chicago, IL 60604 Phone (312) 356-5400*		Figure 1 Prepared By HJ | Verified By PF

APPENDIX A: ASBESTOS BUILDING SURVEY

A.1: ASBESTOS BULK SAMPLE LABORATORY ANALYTICAL RESULTS

200 S. Michigan Ave.
Chicago, IL 60604

LABORATORY ANALYSIS REPORT

BATCH# 500958

Bulk Asbestos Identification

Client
Site Great Lakes Naval Base Bldg 220
Client Reference 421.022.01
Sender Janet Pruett

Date Received 01/31/2005 **by** Joseph Anzlovar
Date Analyzed 01/31/2005 **by** Joseph Anzlovar
Date Collected 01/28/2005 **by** Janet Pruett
Date Reported 01/31/2005 **by** Kelley Bennett
Method EPA-600/R-93/116, using Polarized Light Microscopy

Field #	Lab #	Asb Dete-cted	% Asbestos	% Fibrous Material	% NonFibrous Material	Ho-mo-gen.	Color	Description, Location
01-01	1	No			Binder 100	Yes	Gray	Sewing Room 12x12 Gray F.T.
01-02	2	No			Binder 100	Yes	Gray	Front Desk 12x12 Gray F.T.
01-03	3	No			Binder 100	Yes	Gray	Side Office 12x12 Gray F.T.
01-01 M	4	No		Cellulose 1 - 5	Binder 95	Yes	Brown	Sewing Room 12x12 Gray F.T. Mastic
01-02 M	5	No		Cellulose 1 - 5	Binder 95	Yes	Brown	Front Desk 12x12 Gray F.T. Mastic
01-03 M	6	No		Cellulose 1 - 5	Binder 95	Yes	Brown	Side Office 12x12 Gray F.T. Mastic
02-04	7	No		Syntetic 100		Yes	Green	Back Office Green Carpet
02-05	8	No		Syntetic 100		Yes	Green	Back Office Green Carpet
02-06	9	No		Syntetic 100		Yes	Green	Back Office Green Carpet
02-04M	10	No		Cellulose 1 - 5	Binder 95	Yes	Tan	Back Office Green Carpet Mastic
02-05M	11	No		Cellulose 1 - 5	Binder 95	Yes	Tan	Back Office Green Carpet Mastic
02-06M	12	No		Cellulose 1 - 5	Binder 95	Yes	Tan	Back Office Green Carpet Mastic
03-07	13	No		Syntetic 100		Yes	Brown	Office Bathroom Brown Carpet
03-08	14	No		Syntetic 100		Yes	Brown	Office Bathroom Brown Carpet
03-09	15	No		Syntetic 100		Yes	Brown	Office Bathroom Brown Carpet
03-07 M	16	No		Syntetic 1 - 5	Binder 95	Yes	Tan	Office Bathroom Brown Carpet Mastic
03-08 M	17	No		Syntetic 1 - 5	Binder 95	Yes	Tan	Office Bathroom Brown Carpet Mastic
03-09 M	18	No		Syntetic 1 - 5	Binder 95	Yes	Tan	Office Bathroom Brown Carpet Mastic
04-10	19	No			Binder 100	Yes	Beige	Womens Bathroom 12x12 Beige

Note This report summarizes the analytical results for the bulk material samples submitted for asbestos identification. Analysis of sample was performed in accordance with the Method #EPA-600/R-93/116 utilizing polarized light microscopy with dispersion staining. This report relates only to the items tested and must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, and only with written approval of the laboratory.

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Date Reported 01/31/2005 **by** Kelley Bennett

Field #	Lab #	Asb Dete-cted	% Asbestos	% Fibrous Material	% NonFibrous Material	Ho-mo-gen.	Color	Description, Location
								F.T.
04-11	20	No			Binder 100	Yes	Beige	Womens Bathroom 12x12 Beige F.T.
04-12	21	No			Binder 100	Yes	Beige	Mens Bathroom 12x12 Beige F.T.
04-10 M	22	No		Cellulose 1 - 5	Binder 95		Brown	Womens Bathroom 12x12 Beige F.T. Mastic
04-11 M	23	No		Cellulose 1 - 5	Binder 95		Brown	Womens Bathroom 12x12 Beige F.T. Mastic
04-12 M	24	No		Cellulose 1 - 5	Binder 95		Brown	Mens Bathroom 12x12 Beige F.T. Mastic
05-13	25	No			Binder 100	Yes	Gray	Front Office Gray Base Cove
05-14	26	No			Binder 100	Yes	Gray	Front Office Gray Base Cove
05-15	27	No			Binder 100	Yes	Gray	Front Office Gray Base Cove
05-13 M	28	No		Cellulose 1 - 5	Binder 95	Yes	Brown	Front Office Gray Base Cove Mastic
05-14 M	29	No		Cellulose 1 - 5	Binder 95	Yes	Brown	Front Office Gray Base Cove Mastic
05-15 M	30	No		Cellulose 1 - 5	Binder 95	Yes	Brown	Front Office Gray Base Cove Mastic
06-16	31	No		Fibrous Glass 30 - 35 Cellulose 30 - 35	Binder 30		White Gray	Front Office 2'x4' Fissed C.T.
06-17	32	No		Fibrous Glass 30 - 35 Cellulose 30 - 35	Binder 30		White Gray	Front Office 2'x4' Fissed C.T.
06-18	33	No		Fibrous Glass 30 - 35 Cellulose 30 - 35	Binder 30		White Gray	Front Office 2'x4' Fissed C.T.
07-19	34	No		Fibrous Glass 30 - 35 Cellulose 30 - 35	Binder 30		White Gray	Womens Bathroom 2'x4' Worm C.T.
07-20	35	No		Fibrous Glass 30 - 35 Cellulose 30 - 35	Binder 30		White Gray	Mens Bathroom 2'x4' Worm C.T.
07-21	36	No		Fibrous Glass 30 - 35 Cellulose 30 - 35	Binder 30		White Gray	Locker Room 2'x4' Worm C.T.

Note This report summarizes the analytical results for the bulk material samples submitted for asbestos identification. Analysis of sample was performed in accordance with the Method #EPA-600/R-93/116 utilizing polarized light microscopy with dispersion staining. This report relates only to the items tested and must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, and only with written approval of the laboratory.

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Date Analyzed 01/31/2005 **by** Joseph Anzlovar
Date Reported 01/31/2005 **by** Kelley Bennett

Field #	Lab #	Asb Dete-cted	% Asbestos	% Fibrous Material	% NonFibrous Material	Ho-mo-gen.	Color	Description, Location
08-22	37	Yes	Chrysotile 35 - 40		Binder 60		Gray	Throughout Interior Transite Wall Board
08-23	38	Yes	Chrysotile 35 - 40		Binder 60		Gray	Throughout Interior Transite Wall Board
08-24	39	Yes	Chrysotile 35 - 40		Binder 60		Gray	Throughout Interior Transite Wall Board
09-25	40	No			Binder 100	Yes	Gray	Throughout Window Glaze
09-26	41	No			Binder 100	Yes	Gray	Throughout Window Glaze
09-27	42	No			Binder 100	Yes	Gray	Throughout Window Glaze
10-28	43	No			Binder 100	Yes	Gray	Throughout Window Chaulk
10-29	44	No			Binder 100	Yes	Gray	Throughout Window Caulk
10-30	45	No			Binder 100	Yes	Gray	Throughout Window Caulk
11-31	46	No		Cellulose 25 - 30	Binder 70		White Brown	Dressing Room 1 Drywall & Joint Compound
11-32	47	No		Cellulose 25 - 30	Binder 70		White Brown	Dressing Room 2 Drywall & Joint Compound
11-33	48	No		Cellulose 25 - 30	Binder 70		White Brown	Store Room Drywall & Joint Compound
12-34	49	Yes	Chrysotile 60 - 65		Binder 35		White Gray	Ext. BLDG. Transite Panels
12-35	50	Yes	Chrysotile 60 - 65		Binder 35		White Gray	Ext. BLDG. Transite Panels
12-36	51	Yes	Chrysotile 60 - 65		Binder 35		White Gray	Ext. BLDG. Transite Panels
13-37	52	Yes	Chrysotile 35 - 40	Cellulose 55 - 60			White Brown	Safe Room Pipe Insulation

Note This report summarizes the analytical results for the bulk material samples submitted for asbestos identification. Analysis of sample was performed in accordance with the Method #EPA-600/R-93/116 utilizing polarized light microscopy with dispersion staining. This report relates only to the items tested and must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, and only with written approval of the laboratory.

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Date Analyzed 01/31/2005 **by** Joseph Anzlovar
Date Reported 01/31/2005 **by** Kelley Bennett

Field #	Lab #	Asb Dete-cted	% Asbestos	% Fibrous Material	% NonFibrous Material	Ho-mo-gen.	Color	Description, Location
13-38	53	Yes	Chrysotile 35 - 40	Cellulose 55 - 60			White Brown	Upper Room Pipe Insulation
13-39	54	Yes	Chrysotile 35 - 40	Cellulose 55 - 60			White Brown	North Pipe Room Pipe Insulation
14-40	55	Yes	Chrysotile 30 - 35	Fibrous Glass 25 - 30 Cellulose 30 - 35		Yes	Gray	Upper Room Hard Fittings
14-41	56	Yes	Chrysotile 30 - 35	Fibrous Glass 30 - 35 Cellulose 25 - 30		Yes	Gray	Throughout Hard Fittings
14-42	57	Yes	Chrysotile 30 - 35	Fibrous Glass 25 - 30 Cellulose 30 - 35		Yes	Gray	Throughout Hard Fittings
15-43	58	Yes	Chrysotile 30 - 35	Fibrous Glass 25 - 30 Cellulose 30 - 35			Tan Gray	Above Drop Back Off. 1x1 C.T.
15-44	59	Yes	Chrysotile 30 - 35	Fibrous Glass 25 - 30 Cellulose 30 - 35			Tan Gray	Above Drop Back Off. 1x1 C.T.
15-45	60	Yes	Chrysotile 30 - 35	Fibrous Glass 25 - 30 Cellulose 30 - 35			Tan Gray	Above Drop Back Off. 1x1 C.T.
16-46	61	No			Binder 100	Yes	Tan	Center East Room 12x12 Blue Dot F.T.
16-47	62	No			Binder 100	Yes	Tan	Center East Room 12x12 Blue Dot F.T.
16-48	63	No			Binder 100	Yes	Tan	Center East Room 12x12 Blue Dot F.T.
16-46 M	64	No		Cellulose 1 - 5	Binder 95	Yes	Brown	Center East Room 12x12 Blue Dot F.T. Mastic
16-47M	65	No		Cellulose 1 - 5	Binder 95	Yes	Brown	Center East Room 12x12 Blue Dot F.T. Mastic
16-48 M	66	No		Cellulose 1 - 5	Binder 95	Yes	Brown	Center East Room 12x12 Blue Dot F.T. Mastic
17-49	67	No		Fibrous Glass 5 - 10	Binder 80	Yes	Black	Roof Roofing Material

Note This report summarizes the analytical results for the bulk material samples submitted for asbestos identification. Analysis of sample was performed in accordance with the Method #EPA-600/R-93/116 utilizing polarized light microscopy with dispersion staining. This report relates only to the items tested and must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, and only with written approval of the laboratory.

Joe Anzlovar
ANALYST

LABORATORY ANALYSIS REPORT

BATCH# 500958

Bulk Asbestos Identification

Client
Client Reference 421.022.01

Site Great Lakes Naval Base Bldg 220
Sender Janet Pruett

Date Received 01/31/2005 **by** Joseph Anzlovar
Date Collected 01/28/2005 **by** Janet Pruett

Date Analyzed 01/31/2005 **by** Joseph Anzlovar
Date Reported 01/31/2005 **by** Kelley Bennett

Method EPA-600/R-93/116, using Polarized Light Microscopy

Field #	Lab #	Asb Dete-cted	% Asbestos	% Fibrous Material	% NonFibrous Material	Ho-mo-gen.	Color	Description, Location
				Cellulose 5 - 10				
17-50	68	**No**		Fibrous Glass 5 - 10 Cellulose 5 - 10	Binder 80	Yes	Black	Roof Roofing Material
17-51	69	**No**		Fibrous Glass 5 - 10 Cellulose 5 - 10	Binder 80	Yes	Black	Roof Roofing Material
18-52	70	**No**		Fibrous Glass 5 - 10 Cellulose 5 - 10	Binder 80	Yes	Black	Roof Roofing Material
18-53	71	**No**		Fibrous Glass 5 - 10 Cellulose 5 - 10	Binder 80		Black	Roof Roofing Material
18-54	72	**No**		Fibrous Glass 5 - 10 Cellulose 5 - 10	Binder 80		Black	Roof Roofing Material
19-55	73	**No**		Cellulose 75 - 80	Binder 20	Yes	Black	Under Transite Ext. Paper
19-56	74	**No**		Cellulose 75 - 80	Binder 20	Yes	Black	Under Transite Ext. Paper
19-57	75	**No**		Cellulose 75 - 80	Binder 20	Yes	Black	Under Transite Ext. Paper

Note This report summarizes the analytical results for the bulk material samples submitted for asbestos identification. Analysis of sample was performed in accordance with the Method #EPA-600/R-93/116 utilizing polarized light microscopy with dispersion staining. This report relates only to the items tested and must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, and only with written approval of the laboratory.

ANALYST

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

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Chicago, Illinois 60604
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fax: 312.356.5499

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.: EDI 421.022.01
2. Sampling Site Address/Contact Telephone No.: GREAT LAKES NAVAL BASE Bldg 220
3. Sampled by (Signature): JANET PRUETT
4. # of Samples in Shipment: 75
5. Date of Sample Shipment: 1-28-05
6. Date Results Needed: 24 TAT

Indicate Analysis Requested: PLM

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				AsB ~~Laboratory Number~~
1	1-1	12X12 GRAY F.T SEWING RM														1/28				1					—
2	2	12X12 GRAY F.T FRONT DESK																							—
3	3	12X12 GRAY F.T. SIDE OFFICE																							—
4	1-1m	MASTIC SEWING RM																							—
5	2m	MASTIC FRONT DESK																							—
6	3m	MASTIC SIDE OFFICE																							—
7	2-4	GREEN CARPET BACK OFFICE																							—
8	5	GREEN CARPET BACK OFFICE																							—
9	6	GREEN CARPET BACK OFFICE																							—
10	2-4m	MASTIC BACK OFFICE																							—

Time In: | Time Out: | Total Hours: | Signature: Samples analyzed by Joe Angle | Print Name: 1/30/05

Released by (Signature)	Date/Time Released	Delivery Method	~~Released~~ Received by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Janet Pruett	1-28-05	by hand	[illegible]	1/30/05		
			To Archive/Disposal			

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3. Sampled by (Signature): JANET PRUETT
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6. Date Results Needed: 24 TAT

Indicate Analysis Requested: PLM

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				ASB ~~Laboratory Number~~
1	2-5m	MASTIC BACK office		↓												1/27				1	↓				—
2	6m	MASTIC BACK office		↓																↓	↓				—
3	3-7	BROWN CARPET OFFICE BATH Rm		↓																↓	↓				—
4	8	BROWN CARPET office BATH Rm		↓																↓	↓				—
5	9	BROWN CARPET office BATH Rm		↓																↓	↓				—
6	3-7m	MASTIC office BATH Rm		↓																↓	↓				—
7	8m	MASTIC office BATH Rm		↓																↓	↓				—
8	9m	MASTIC office BATH Rm		↓																↓	↓				—
9	4-10	12x12 BEIGE F.T. WOMENS BATH Rm		↓																↓	↓				—
10	11	12x12 BEIGE F.T. WOMENS BATH Rm		↓																↓	↓				—

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
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2. Sampling Site Address/Contact Telephone No.: GREAT LAKES NAVAL BASE BIDG 220
3. Sampled by (Signature): JANET PRUETT
4. # of Samples in Shipment: 75
5. Date of Sample Shipment: 1-28-05
6. Date Results Needed: 24 TAT

Indicate Analysis Requested: PLM; ASB ~~Laboratory Number~~

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				ASB
1	4-12	12X12 BEIGE F.T. MEN'S BATH RM		↓												1/27				1	↓				—
2	4-10m	MASTIC WOMENS BATH RM		↓												↓				↓	↓				—
3	11m	MASTIC WOMENS BATH RM		↓												↓				↓	↓				—
4	12m	MASTIC MEN'S BATH RM		↓												↓				↓	↓				—
5	5-13	GRAY BASE COVE FRONT OFFICE		↓												↓				↓	↓				—
6	14	GRAY BASE COVE FRONT OFFICE		↓												↓				↓	↓				—
7	15	GRAY BASE COVE FRONT OFFICE		↓												↓				↓	↓				—
8	5-13m	MASTIC FRONT office		↓												↓				↓	↓				—
9	14m	MASTIC FRONT office		↓												↓				↓	↓				—
10	15m	MASTIC FRONT office		↓												↓				↓	↓				—

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
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1. Sender's Name/Project No.: EDI 421.022.01

2. Sampling Site Address/Contact Telephone No.: GREAT LAKES NAVAL BASE BLDG 220

3. Sampled by (Signature): JANET Pruett

4. # of Samples in Shipment: 75

5. Date of Sample Shipment: 1-28-05

6. Date Results Needed: 24TAT

Indicate Analysis Requested: PLM; ASB ~~Laboratory Number~~

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				ASB
1	6-16	2'X4' FISSED C.T. FRONT office		↓												1/27				1	↓				—
2	17	2'X4' FISSED C.T. FRONT DESK		↓												↓				↓	↓				—
3	18	2'X4' FISSED C.T. SEWING Rm		↓												↓				↓	↓				—
4	7-19	2'X4' WORM C.T. WOMENS BATH Rm		↓												↓				↓	↓				—
5	20	2'X4' WORM C.T. MEN'S BATH Rm		↓												↓				↓	↓				—
6	21	2'X4' WORM C.T. LOCKER Rm		↓												↓				↓	↓				—
7	8-22	TRANSITE WALL Board Through out Interior		↓												↓				↓	↓				+
8	23	TRANSITE WALL BOARD THROUGH-OUT INTERIOR		↓												↓				↓	↓				+
9	24	TRANSITE WALL BOARD THROUGH-OUT INTERIOR		↓												↓				↓	↓				+
10	9-25	WINDOW GLAZE THROUGH-OUT		↓												↓				↓	↓				—

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

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1. Sender's Name/Project No.: EDI 4/21,022.01

2. Sampling Site Address/Contact Telephone No.: GREAT LAKES NAVAL BASE BLDG 220

3. Sampled by (Signature): JANET PRUETT

4. # of Samples in Shipment: 75

5. Date of Sample Shipment: 1-28-05

6. Date Results Needed: 24 TAT

Indicate Analysis Requested: PLM; ASB (~~Laboratory Number~~)

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				ASB
1	9-26	WINDOW GLAZE THROUGH-OUT		↓												1/27				1	↓				—
2	27	WINDOW GLAZE THROUGH-OUT		↓												↓				↓	↓				—
3	10-28	WINDOW CAULK THROUGH-OUT		↓												↓				↓	↓				—
4	29	WINDOW CAULK THROUGH-OUT		↓												↓				↓	↓				—
5	30	WINDOW CAULK THROUGH-OUT		↓												↓				↓	↓				—
6	11-31	DRYWALL JOINT COMPOUND DRESSING Rm I		↓												↓				↓	↓				—
7	32	DRYWALL JOINT COMPOUND DRESSING Rm 2		↓												↓				↓	↓				—
8	33	DRYWALL JOINT COMPOUND STORE. Rm		↓												↓				↓	↓				—
9	12-34	TRANSITE PANELS EXT. BLDG		↓												↓				↓	↓				+
10	35	TRANSITE PANELS EXT. BLDG		↓												↓				↓	↓				+

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

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Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.: EDI 421.022.01

2. Sampling Site Address/Contact Telephone No.: GREAT LAKES NAVAL BASE BIDG 220

3. Sampled by (Signature): JANET PRUETT

4. # of Samples in Shipment: 75

5. Date of Sample Shipment: 1-28-05

6. Date Results Needed: 24 TAT

Indicate Analysis Requested: PLM

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				ASB ~~Laboratory Number~~
1	12-36	TRANSITE PANELS EXT. BIDG		↓												1/27				1	↓				+
2	13-37	PIPE INSULATION SAFE RM		↓												↓				↓	↓				+
3	38	PIPE INSULATION UPPER RM		↓												↓				↓	↓				+
4	39	PIPE INSULATION North PIPE RUN		↓												↓				↓	↓				+
5	14- 40	HARD FITTINGS UPPER RM		↓												↓				↓	↓				+
6	41	HARD FITTINGS THROUGH-OUT		↓												↓				↓	↓				+
7	42	HARD FITTINGS THROUGH-OUT		↓												↓				↓	↓				+
8	15- 43	1X1 C.T ABOVE DROP BACK OFFICE		↓												↓				↓	↓				—
9	44	1X1 C.T. ABOVE DROP BACK OFFICE		↓												↓				↓	↓				—
10	45	1X1 C.T. ABOVE DROP BACK OFFICE		↓												↓				↓	↓				—

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
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Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.: EDI 421.022.01
2. Sampling Site Address/Contact Telephone No.: GREAT LAKES NAVEL BASE Bldg 220
3. Sampled by (Signature): JANET PRUETT
4. # of Samples in Shipment: 75
5. Date of Sample Shipment: 1-28-05
6. Date Results Needed: 24TAT

Indicate Analysis Requested: PLM

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM					ASB ~~Laboratory Number~~
1	16 - 46	12X12 BLUE DOT F.T CENTER EAST RM		↓												1/27				1	↓					—
2	47	12X12 BLUE DOT F.T. CENTER EAST RM		↓												↓				↓	↓					—
3	48	12X12 BLUE DOT F.T CENTER EAST RM		↓												↓				↓	↓					—
4	16-46m	MASTIC CENTER EAST RM		↓												↓				↓	↓					—
5	47M	MASTIC CENTER EAST RM		↓												↓				↓	↓					—
6	48M	MASTIC CENTER EAST RM		↓												↓				↓	↓					—
7	17-49	Roofing MATERIAL Roof		↓												↓				↓	↓					—
8	50	Roofing MATERIAL Roof		↓												↓				↓	↓					—
9	51	Roofing MATERIAL Roof		↓												↓				↓	↓					—
10	18-52	Roofing MATERIAL Roof		↓												↓				↓	↓					—

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
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CHAIN OF CUSTODY ANALYSIS REQUEST FORM

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1. Sender's Name/Project No.: EDI 421.022.01
2. Sampling Site Address/Contact Telephone No.: GREAT LAKES NAVAL BASE B106 220
3. Sampled by (Signature): JANET PRUETT
4. # of Samples in Shipment: 75
5. Date of Sample Shipment: 1-28-05
6. Date Results Needed: 24 TAT

Indicate Analysis Requested: PLM; ASB

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM					ASB Laboratory Number
1	18-53	ROOFING MATERIAL ROOF		↓												1/27				1	↓					—
2	54	ROOFING MATERIAL ROOF		↓												↓				↓	↓					—
3	19-55	EXT PAPER UNDER TRANSITE		↓												↓				↓	↓					—
4	56	EXT PAPER UNDER TRANSITE		↓												↓				↓	↓					—
5	57	EXT PAPER UNDER TRANSITE		↓												↓				↓	↓					—
6																										
7																										
8																										
9																										
10																										

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Received by (Signature)	Date/Time Received	Company/Agency Affiliation	Condition Noted
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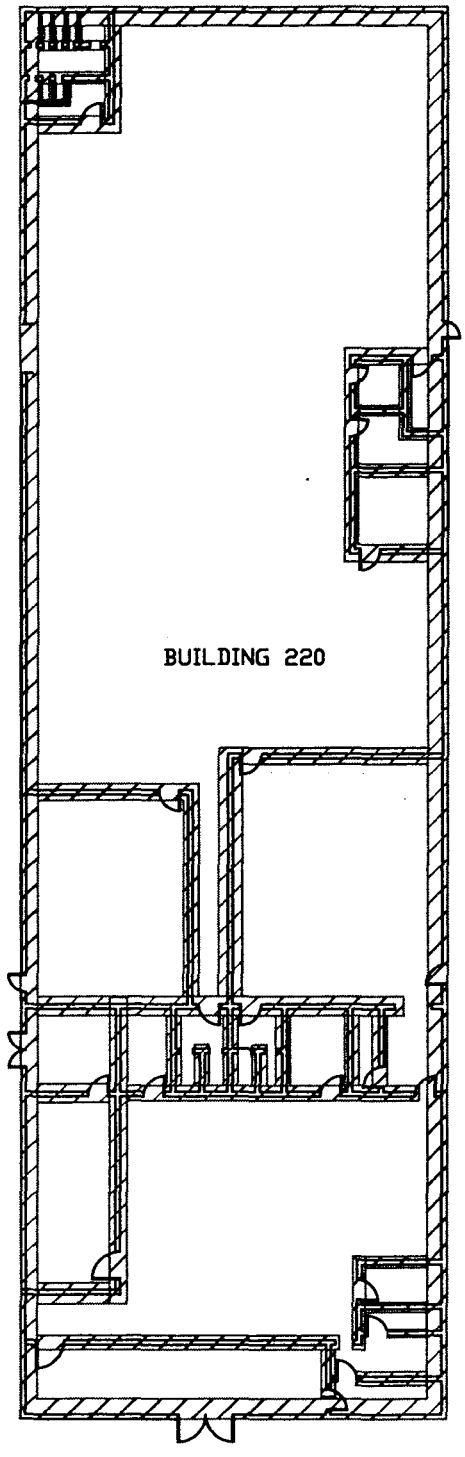
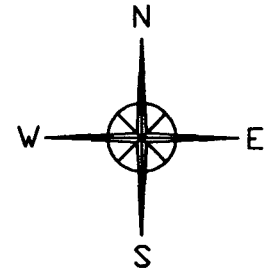
Report Number:

A.2 ASBESTOS LOCATION SKETCHES





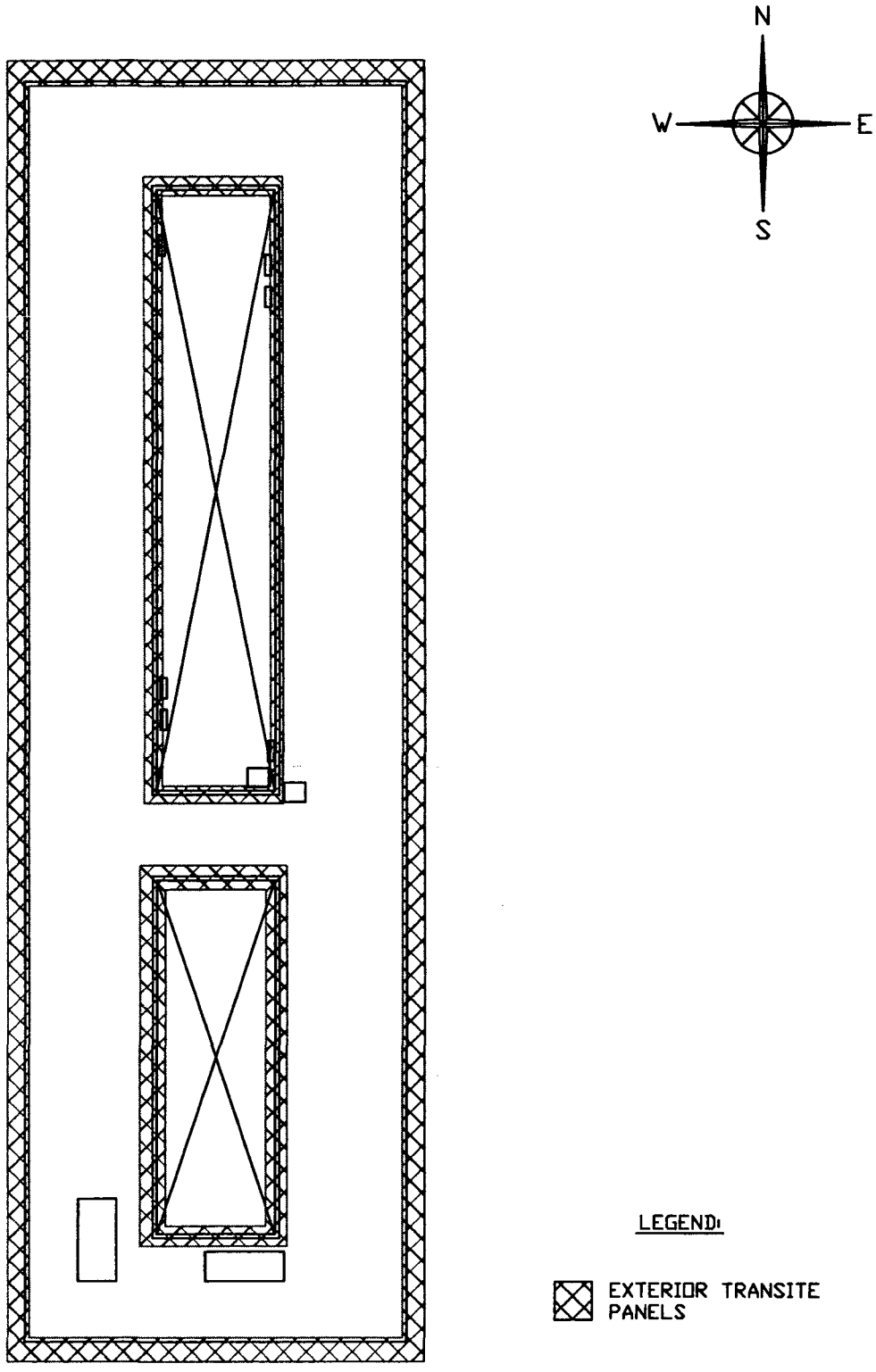
LEGEND:

INTERIOR TRANSITE PANELS

NOTE:
DOES NOT SHOW LOCATION OF ASBESTOS CONTAINING, PIPE INSULATION AND FITTINGS.

Title: INTERIOR TRANSITE PANELS	Issued: 2/07/05	Drawn by: S.V.	Figure: 1
Site: GREAT LAKES NAVAL CENTER: BUILDING 220	Revised:	EDI proj. no. 421.022.02	Scale: Not to scale
Client: TENG & ASSOCIATES			

EDI
ENVIRONMENTAL DESIGN INTERNATIONAL inc.
200 SOUTH MICHIGAN AVE. SUITE 700
CHICAGO, IL 60604 PHONE: (312) 356-5400



Title:	LOCATION OF EXTERIOR ASBESTOS MATERIALS	Issued: 2/07/05	Drawn by: S.V.	Figure: 2
Site:	GREAT LAKES NAVAL CENTER: BUILDING 220	Revised:	EDI proj. no. 421.022.02	Scale: Not to scale
Client:	TENG & ASSOCIATES			

EDI
ENVIRONMENTAL DESIGN INTERNATIONAL inc.
200 SOUTH MICHIGAN AVE. SUITE 700
CHICAGO, IL 60604 PHONE: (312) 356-5400

A.3 SUMMARY OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Summary of Asbestos Results

SAMPLE #	DESCRIPTION OF MATERIALS	SAMPLE LOCATIONS	CONDITION OF MATERIALS	ASBESTOS PRESENT	QTY
01- 01	12x12 Grey Floor Tile	Sewing Room	Good	ND	3000 SF
01- 02	12x12 Grey Floor Tile	Front Desk	Good	ND	
01-03	12x12 Grey Floor Tile	Office	Good	ND	
01-01m	12x12 Grey Floor Tile Mastic	Sewing Room	Good	ND	3000 SF
01-02m	12x12 Grey Floor Tile Mastic	Front Desk	Good	ND	
01-03m	12x12 Grey Floor Tile Mastic	Office	Good	ND	
02-04	Green Carpet	Back Office	Good	ND	200 SF
02-05	Green Carpet	Back Office	Good	ND	
02-06	Green Carpet	Back Office	Good	ND	
02-4m	Green Carpet Mastic	Back Office	Good	ND	200 SF
02-5m	Green Carpet Mastic	Back Office	Good	ND	
02-6m	Green Carpet Mastic	Back Office	Good	ND	
03-07	Brown Carpet	Office Bathroom	Good	ND	10 SF
03-08	Brown Carpet	Office Bathroom	Good	ND	
03-09	Brown Carpet	Office Bathroom	Good	ND	

ND= None Detected
Yes = Asbestos Present

Summary of Asbestos Results

SAMPLE #	DESCRIPTION OF MATERIALS	SAMPLE LOCATIONS	CONDITION OF MATERIALS	ASBESTOS PRESENT	QTY
03- 7m	Brown Carpet Mastic	Office Bathroom	Good	ND	10 SF
03-8m	Brown Carpet Mastic	Office Bathroom	Good	ND	
03-9m	Brown Carpet Mastic	Office Bathroom	Good	ND	
04-10	12x12 Beige Floor Tile	Women's Bathroom	Good	ND	400 SF
04-11	12x12 Beige Floor Tile	Women's Bathroom	Good	ND	
04-12	12x12 Beige Floor Tile	Men's Bathroom	Good	ND	
04-10m	12x12 Beige Floor Tile Mastic	Women's Bathroom	Good	ND	400 SF
04-11m	12x12 Beige Floor Tile Mastic	Women's Bathroom	Good	ND	
04-12m	12x12 Beige Floor Tile Mastic	Men's Bathroom	Good	ND	
05-13	Grey Base Cove	Front Desk Lobby	Good	ND	600 LF
05-14	Grey Base Cove	Front Desk Lobby	Good	ND	
05-15	Grey Base Cove	Front Desk Lobby	Good	ND	
05-13m	Grey Base Cove Mastic	Front Desk Lobby	Good	ND	600 LF
05-14m	Grey Base Cove Mastic	Front Desk Lobby	Good	ND	
05-15m	Grey Base Cove Mastic	Front Desk Lobby	Good	ND	

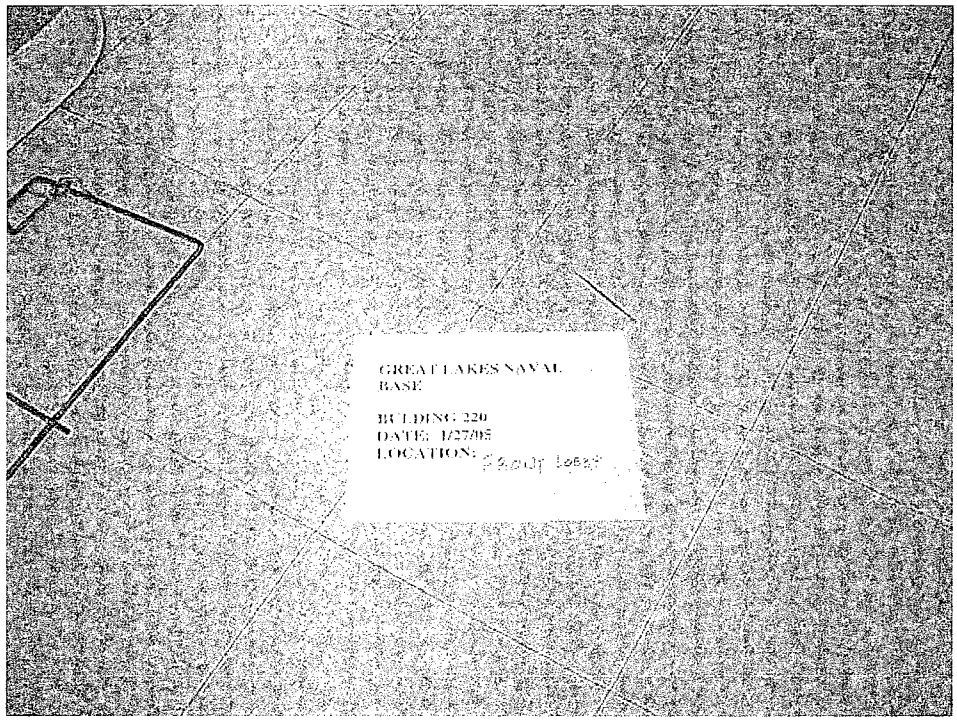
ND= None Detected
Yes = Asbestos Present

Summary of Asbestos Results

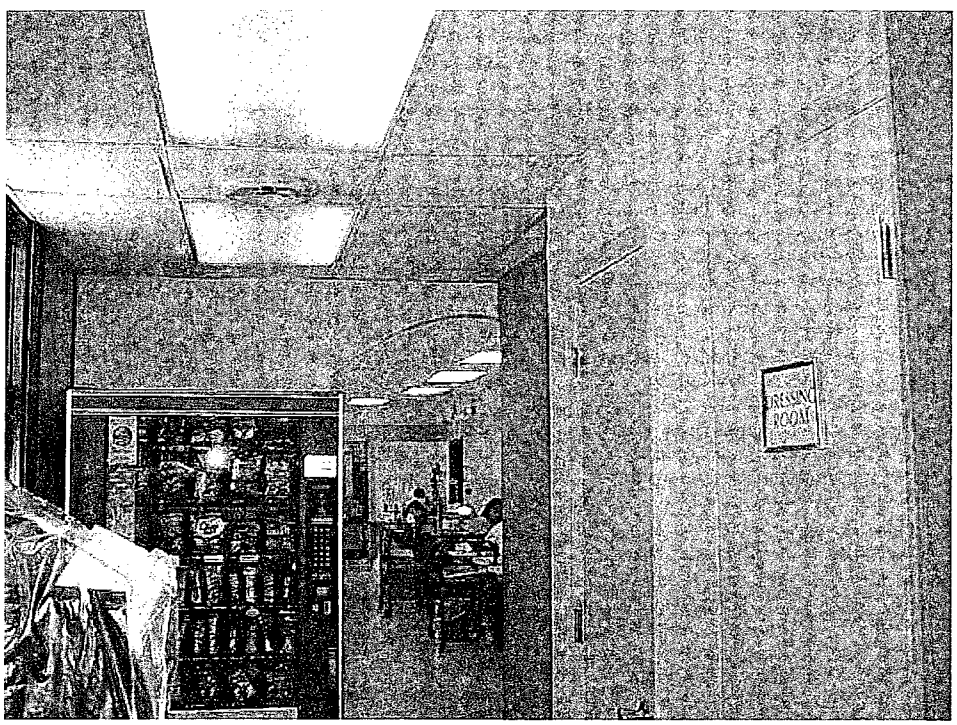
SAMPLE #	DESCRIPTION OF MATERIALS	SAMPLE LOCATIONS	CONDITION OF MATERIALS	ASBESTOS PRESENT	QTY
17-49-	Roofing material	Roof	Good	ND	10,000 SF
17-50	Roofing material	Roof	Good	ND	
17-51	Roofing material	Roof	Good	ND	
18-52	Roofing material	Roof	Good	ND	10,000 SF
18-53	Roofing material	Roof	Good	ND	
18-54	Roofing material	Roof	Good	ND	
19-55	Exterior paper	Under transite panels	Good	ND	30,000 SF
19-56	Exterior paper	Under transite panel	Good	ND	
19-57	Exterior paper	Under transite panel	Good	ND	

ND= None Detected
Yes = Asbestos Present

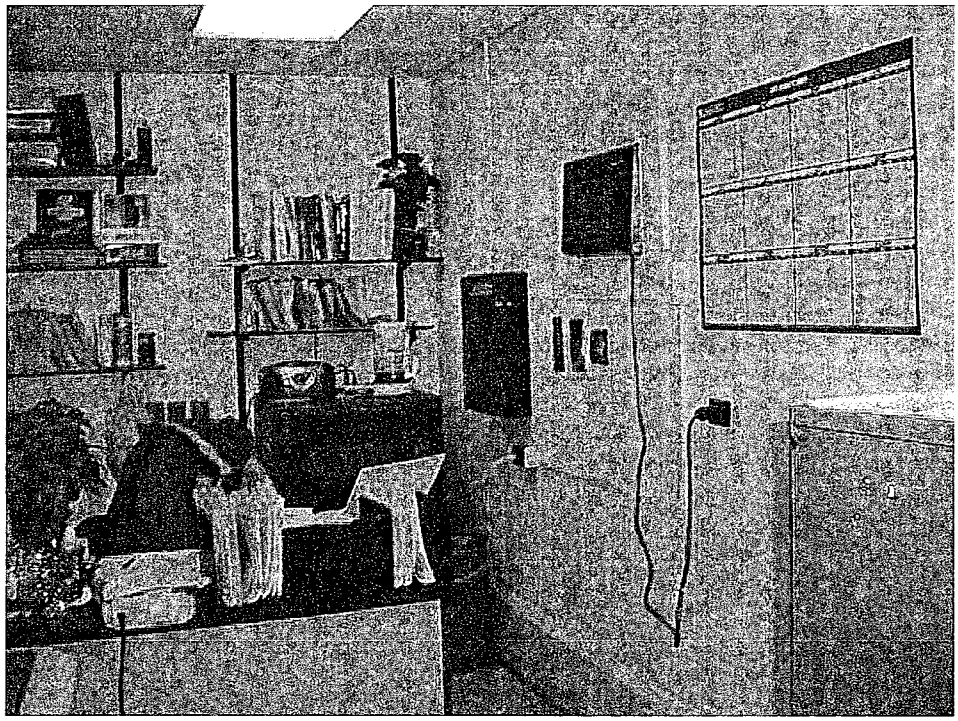
A.4 ASBESTOS BUILDING SURVEY PHOTOLOG



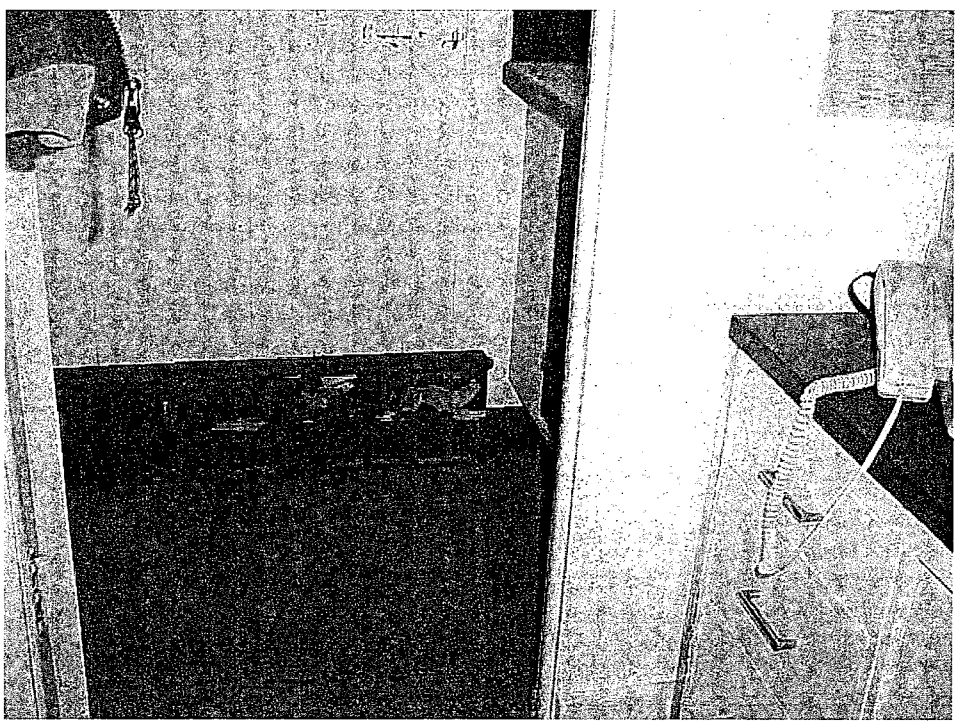
FRONT LOBBY
12"X12" FLOOR TILE
AND MASTIC



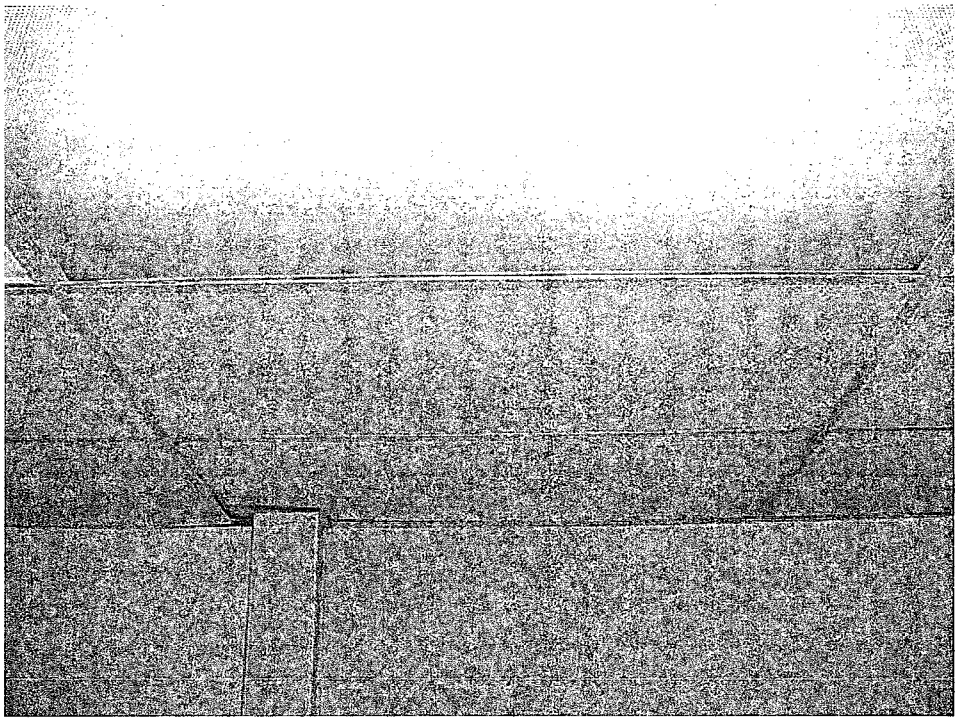
SEWING ROOM
Drywall
2 x 4 Ceiling Tile



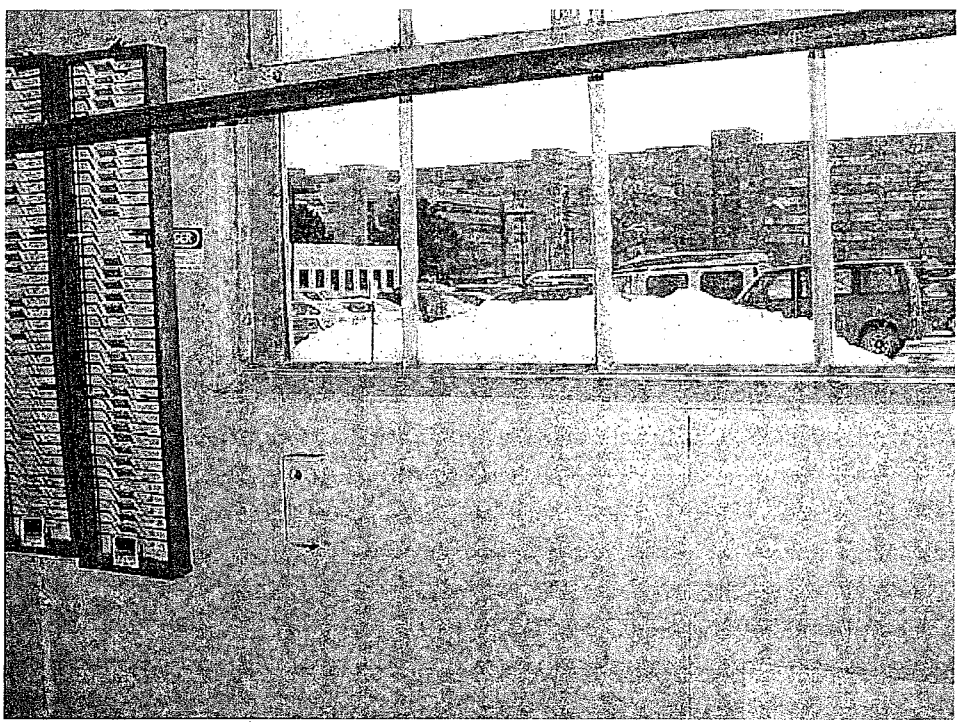
BACK OFFICE
Dry Wall



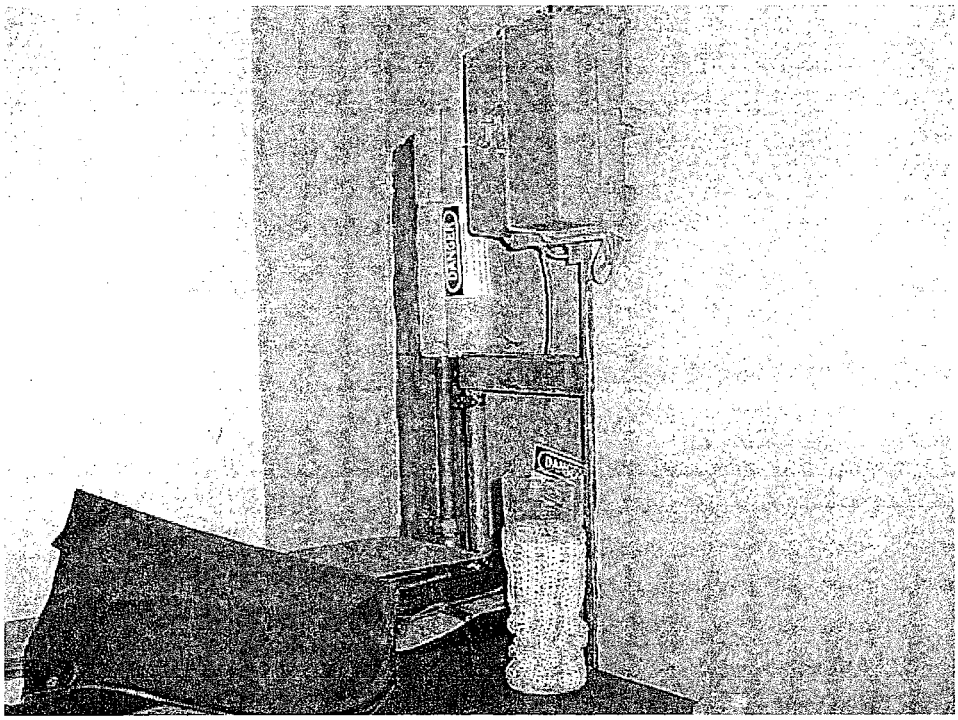
BACK OFFICE
REST ROOM
Brown Carpet and Mastic



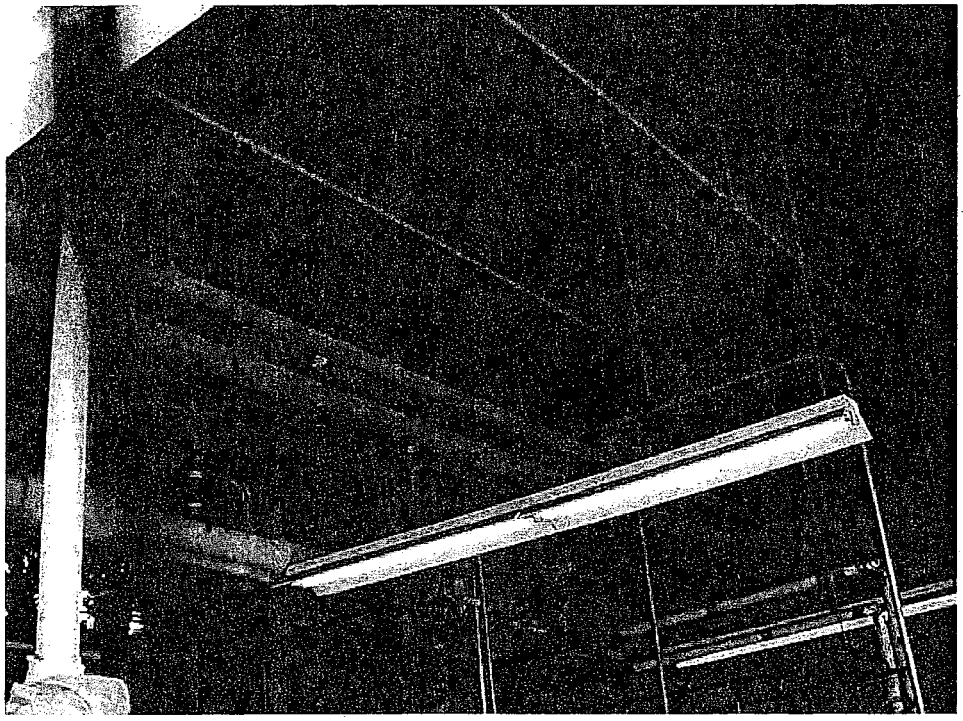
SUSPENDED CEILING
ABOVE OFFICE
AREAS



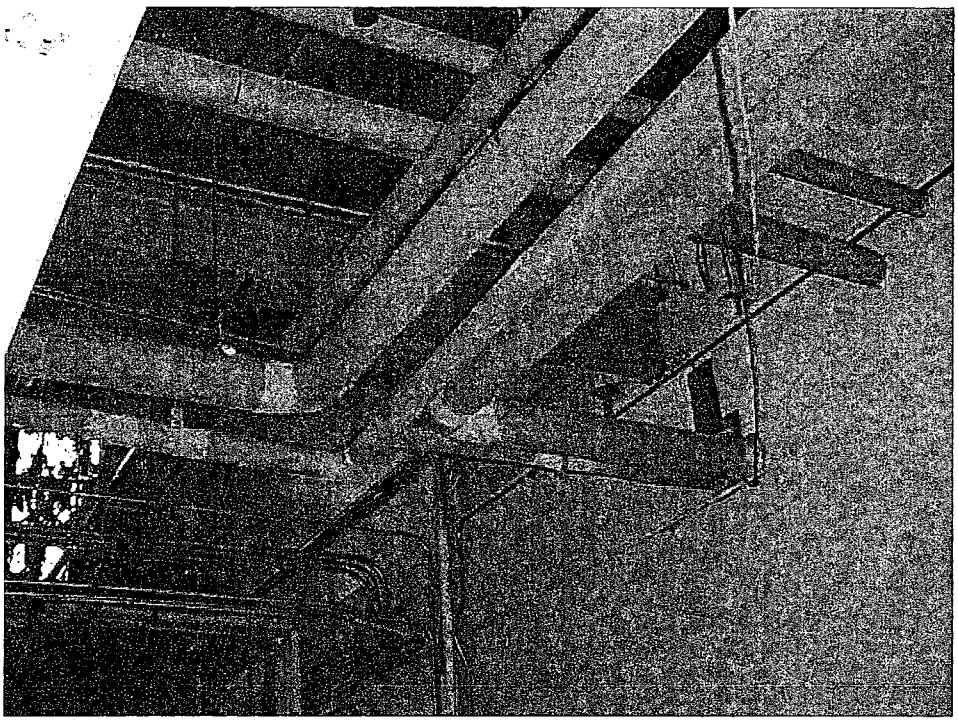
TRANSITE LINED
WALLS (THROUGHOUT)



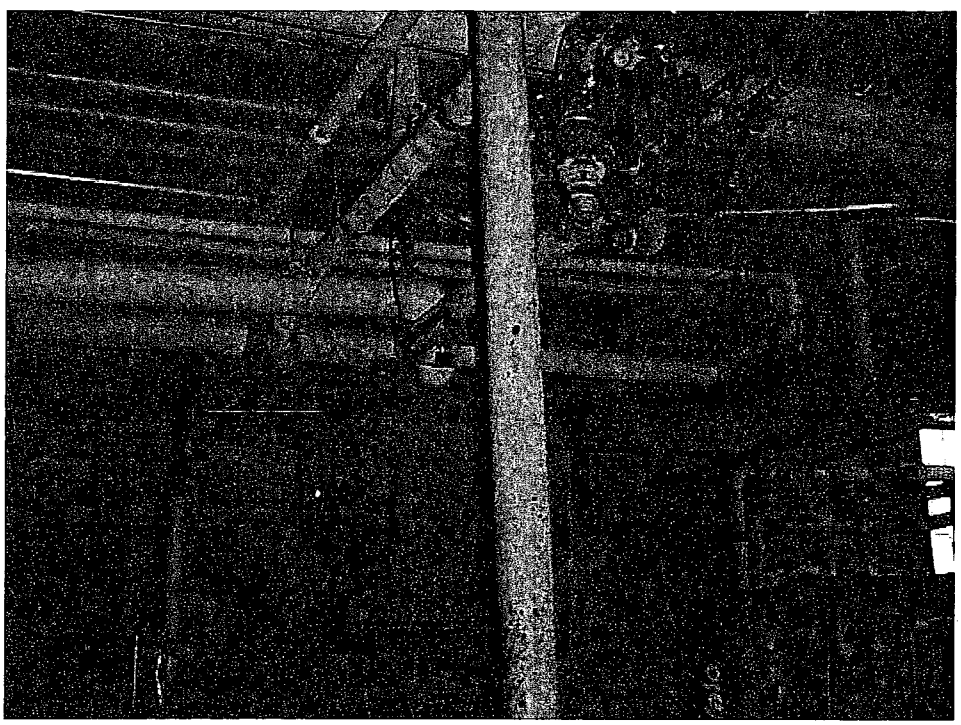
SAFE ROOM - TYPICAL WALL SECTION



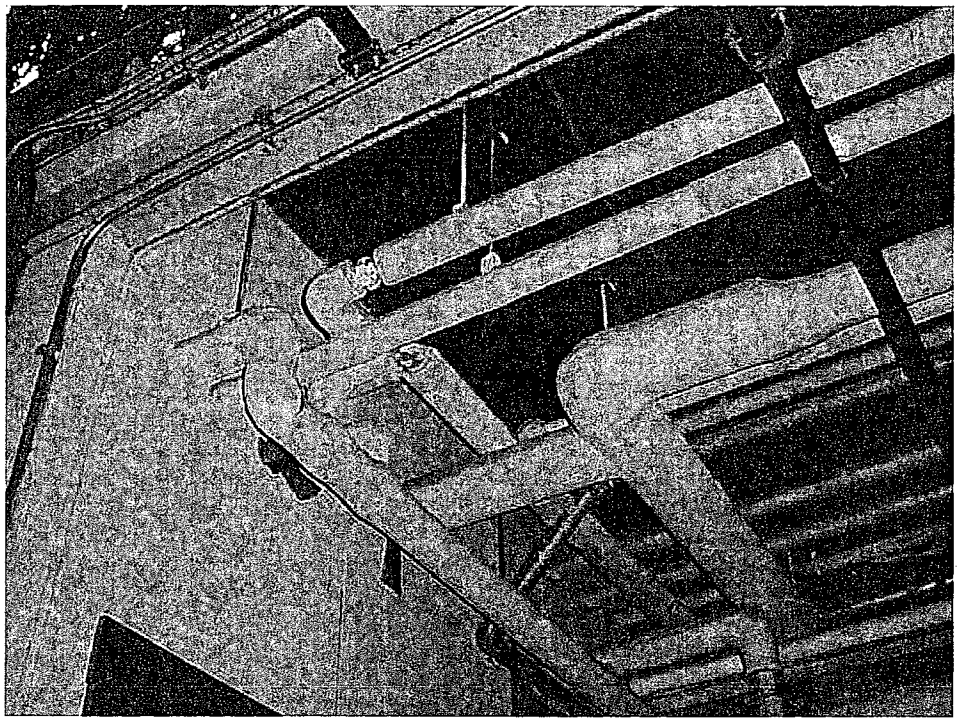
WAREHOUSE AREA WITH ACM INSULATED PIPES ABOVE



WAREHOUSE PIPING



WAREHOUSE PIPING



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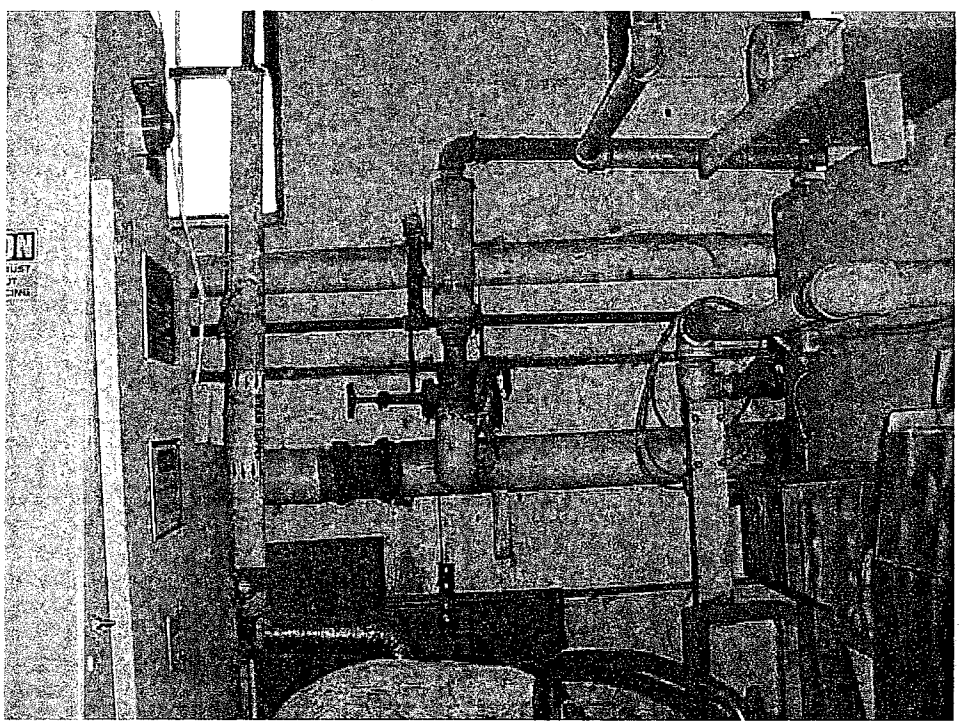
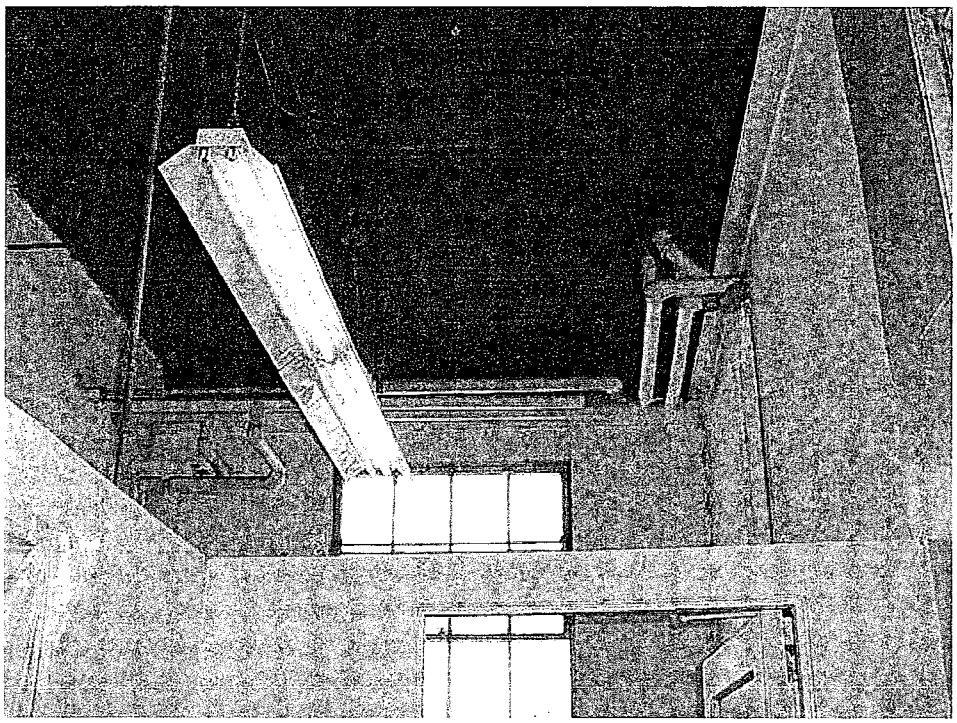
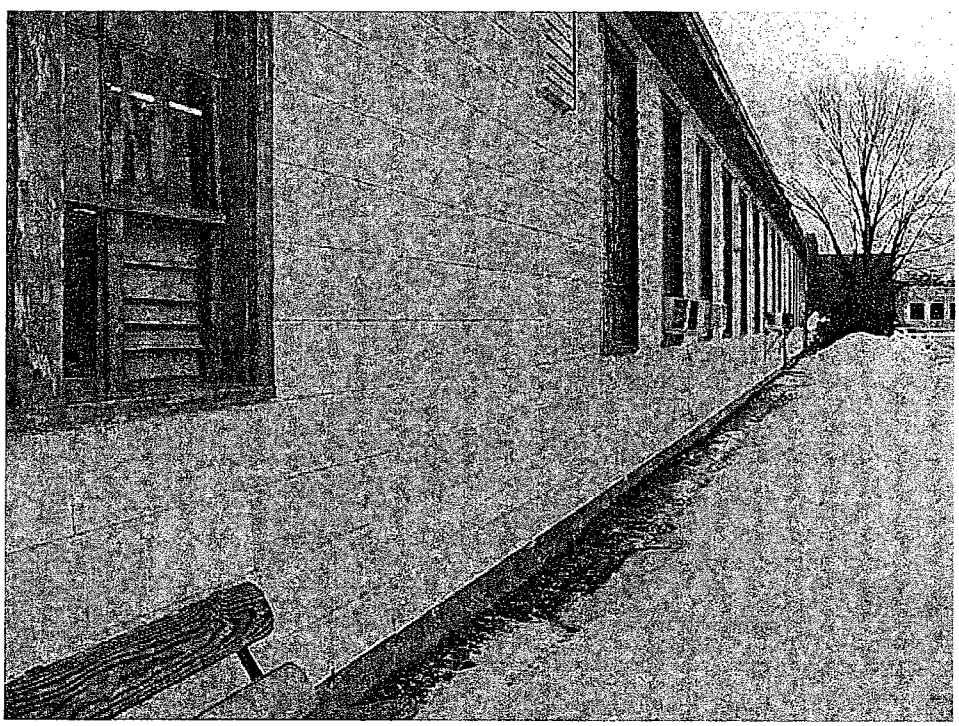


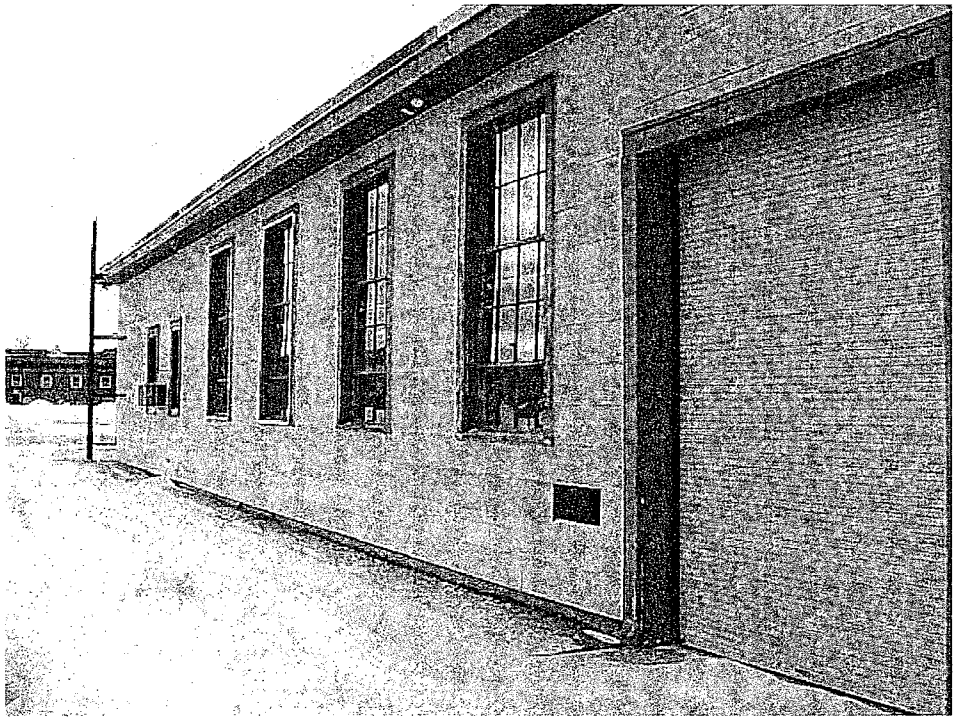
WAREHOUSE PIPING



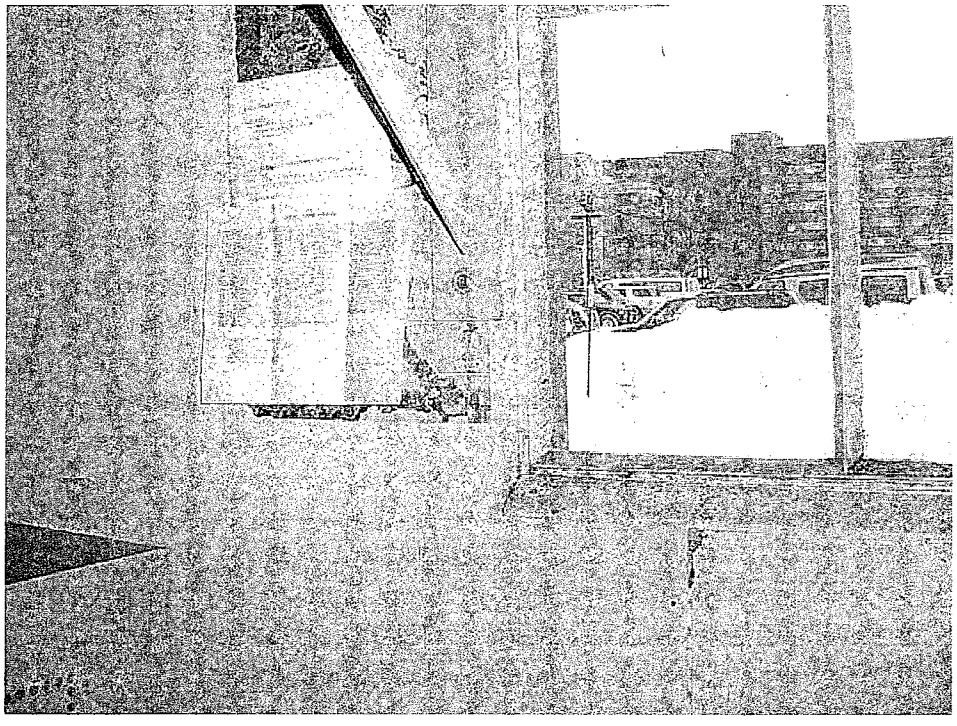
WAREHOUSE PIPING



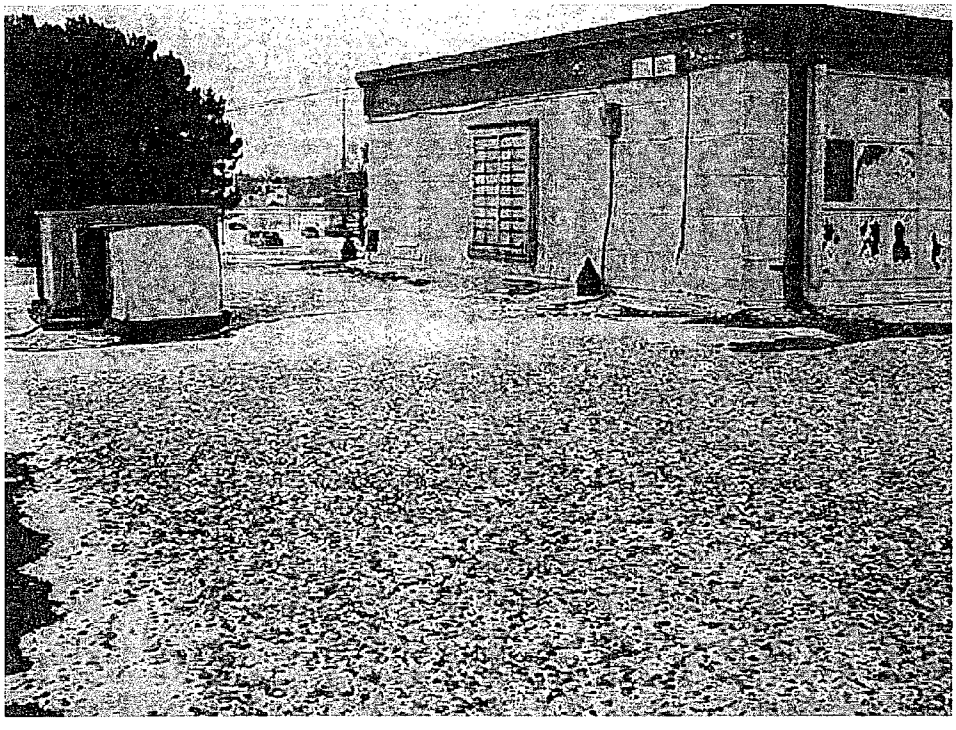
EXTERIOR TRANSITE



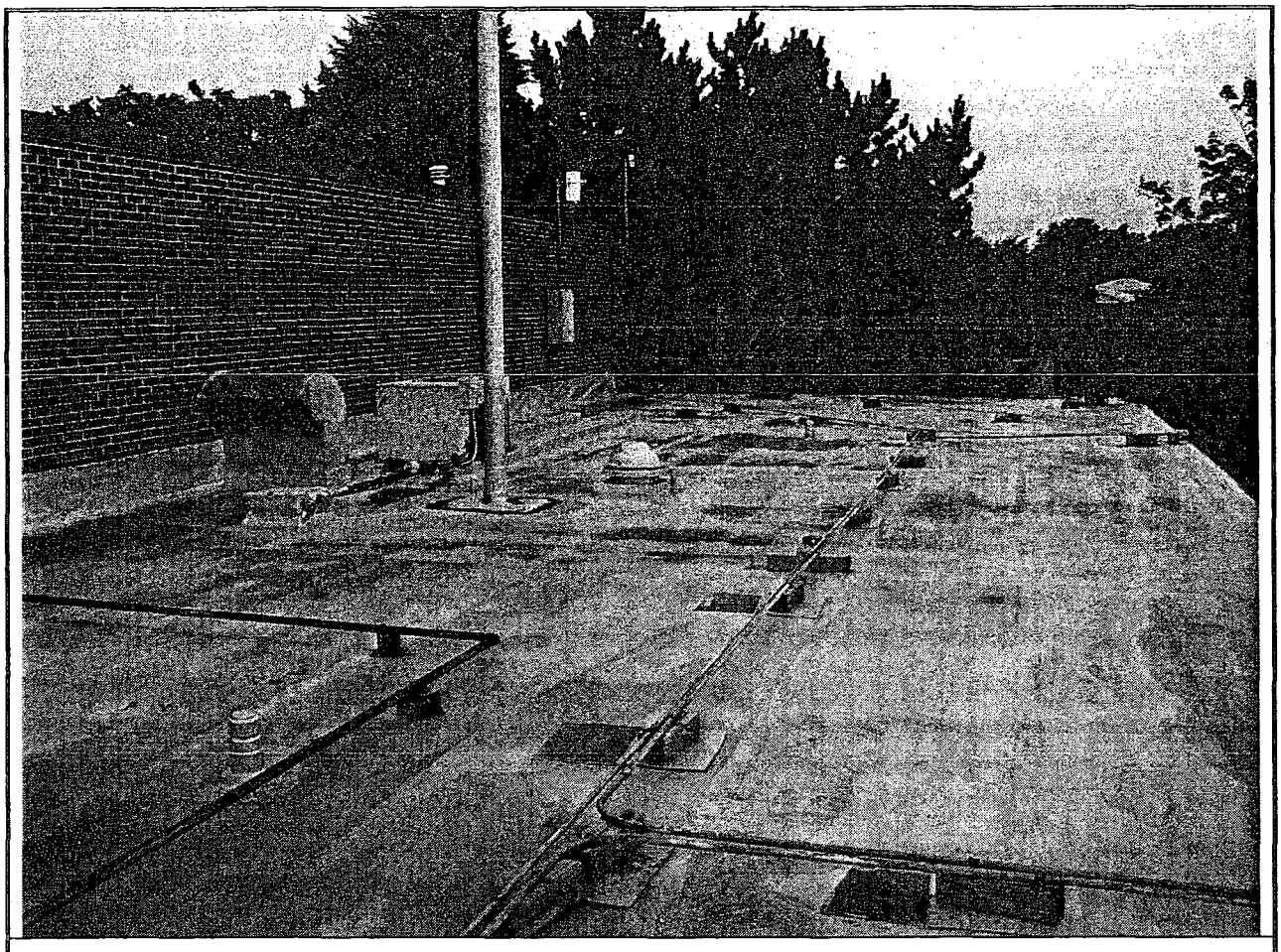
EXTERIOR TRANSITE



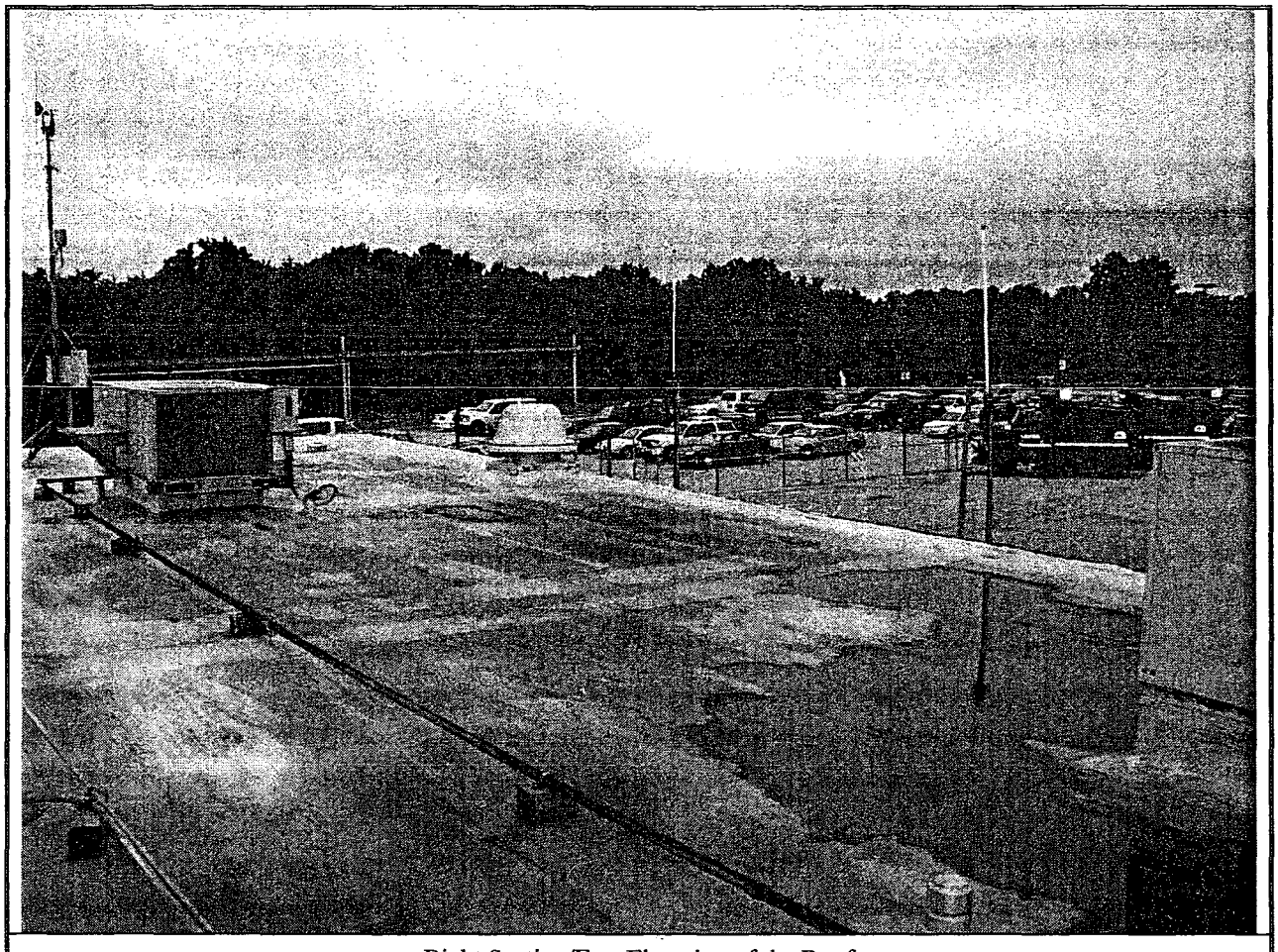
INTERIOR TRANSITE



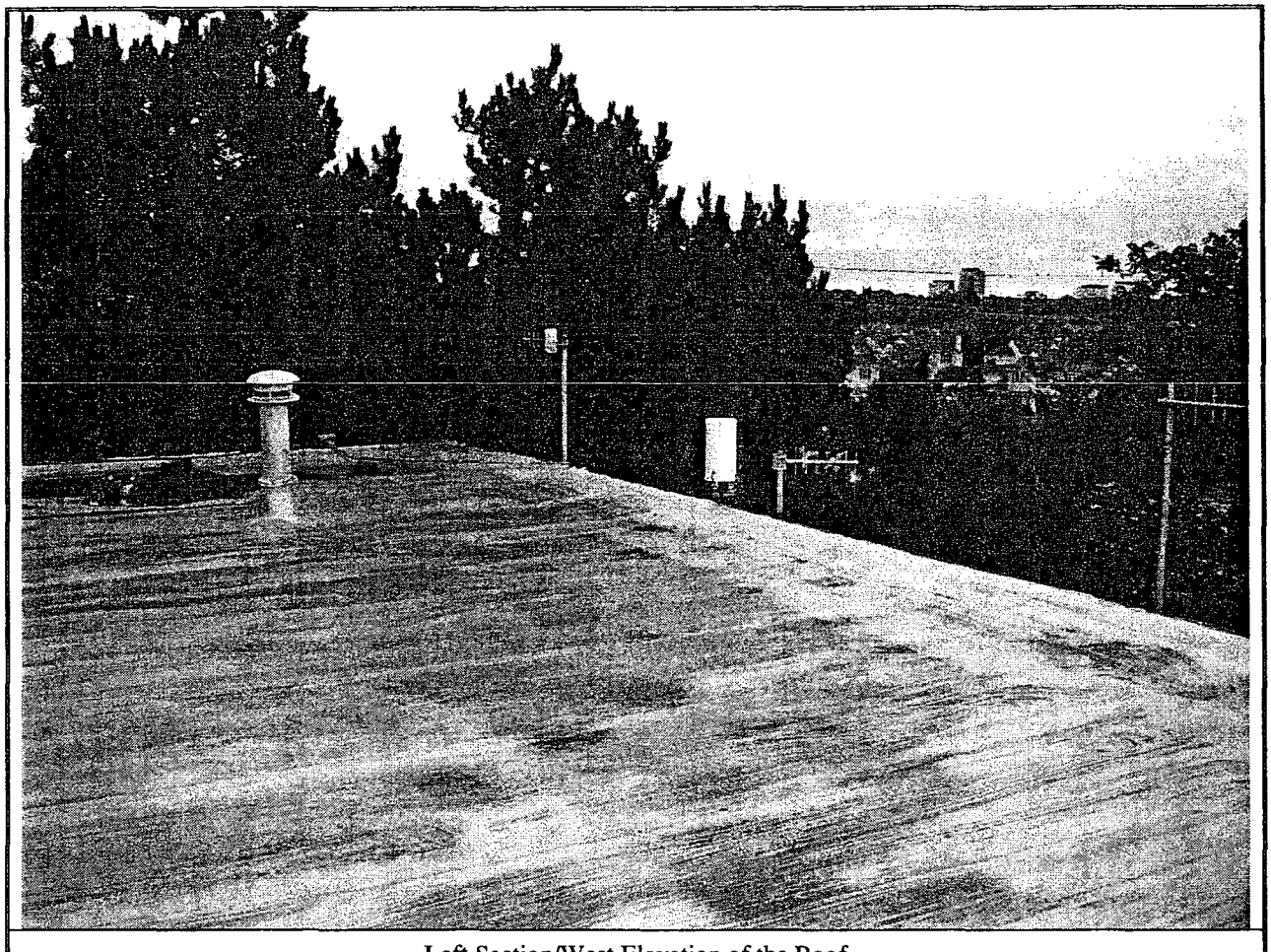
EXTERIOR TRANSITE AND ROOFING MATERIALS



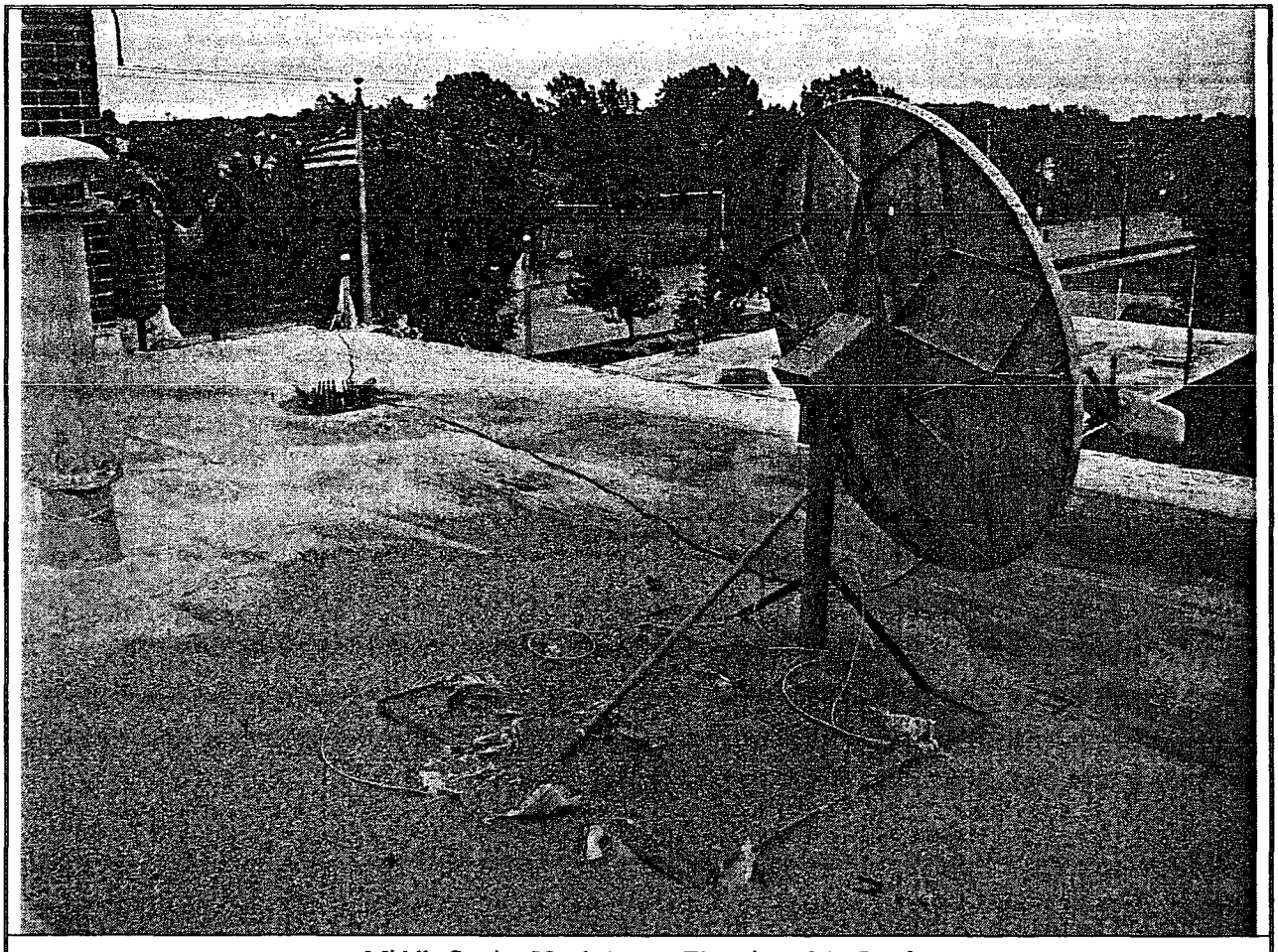
Right Section/East Elevation of the Roof



Right Section/East Elevation of the Roof



Left Section/West Elevation of the Roof



Middle Section/North (centertElevation of the Roof

A.5 ABATEMENT COST ESTIMATES

ABATEMENT COST SCHEDULE FOR ASBESTOS CONTAINING MATERIALS

Building 220
Great Lakes Naval Center

The following costs are an estimate only for the removal of asbestos-containing materials. Unit prices do not include replacement and/or reinsulation costs.

Asbestos-Containing Materials	Quantity	Unit Cost	Removal Cost
Interior Transite Wall Board	40,000 SF	$0.80 SF	$32,000.00
Exterior Transite Siding	30,000 SF	$0.80 SF	$24,000.00
Pipe Insulation	7,500 LF	$10.00 LF	$75,000.00
Pipe Insulation Fittings	850 EA	$25.00 EA	$21,250.00
Contractor's mobilization			$1,000.00
Subtotal			$153,250.00
Consultant Fee			$15,000.00
Total:	----	----	**$168,250.00**

A.6 INSPECTOR LICENSES, CERTIFICATIONS, AND ACCREDITATIONS

State of Illinois
Department of Public Health

A 136835

LICENSE, PERMIT, CERTIFICATION, REGISTRATION

The person, firm or corporation whose name appears on this certificate has complied with the provisions of the Illinois Statutes and/or rules and regulations and is hereby authorized to engage in the activity as indicated below.

ERIC E. WHITAKER, M.D. M.P.H.
DIRECTOR

Issued under the authority of
The State of Illinois
Department of Public Health

EXPIRATION DATE	CATEGORY	I.D. NUMBER
05/15/2005	5319	100- 07666

JANET PRUETT

PROJECT MANAGER

INSPECTOR AIR SAMPLING PROFESSIONAL

BUSINESS ADDRESS

ASBESTOS PROFESSIONAL LICENSE
ALTERING THIS CERTIFICATE MAY RESULT IN LEGAL ACTION

JANET PRUETT
844 W. JACKSON
MORRIS IL 60450

THIS LICENSE IS NOT VALID IF YOUR IDPH
COURSE CERTIFICATE IS NOT CURRENT.

Printed by Authority of the State of Illinois 2/91

State of Illinois A 136835
Department of Public Health
Licensing, Permit, Certification, Registration
ASBESTOS PROFESSIONAL LICENSE
05/15/2005 5319 100- 07666
JANET
PROJECT MANAGER
INSPECTOR AIR SAMPLING PROFESSIONAL

THE PERSON, FIRM OR CORPORATION WHOSE NAME APPEAR ON THIS CERTIFICATE HAS COMPLIED WITH THE PROVISION OF THE ILLINOIS STATUTES AND/OR RULES AND REGULATION AND IS HEREBY AUTHORIZED TO ENGAGE IN THE ACTIVIT INDICATED ON THE FACE OF THIS CARD.

ISSUED UNDER THE AUTHORITY OI
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC HEALTH

SIGNATURE OF LICENSEE Janet Pruett

Amerisafe

ASBESTOS BUILDING INSPECTOR REFRESHER

THIS CERTIFIES THAT

JANET L. PRUETT
396-60-8485

Has successfully completed the IL & IN Approved Asbestos Training Course and passed the Examination for purposes of accreditation under section 206 of Title II of the Toxic Substances Control Act (TSCA). Conducted by Amerisafe Training Services, 3990 Enterprise Court, Aurora, IL 60504. (630) 862-2650.

COURSE DATE: AUGUST 6, 2004

LOCATION: AURORA, IL

DIRECTOR OF SAFETY SERVICES

EXAMINATION: AUGUST 6, 2004

EXPIRATION: AUGUST 6, 2005

CERTIFICATE NUMBER: ATS2004-0435

State of Illinois A151223
Department of Public Health

LICENSE, PERMIT, CERTIFICATION, REGISTRATION

The person, firm or corporation whose name appears on this certificate has complied with the provisions of the Illinois Statutes and/or rules and regulations and is hereby authorized to engage in the activity as indicated below.

ERIC E. WHITAKER, M.D. M.P.H.
DIRECTOR

Issued under the authority of
The State of Illinois
Department of Public Health

EXPIRATION DATE	CATEGORY	I. D. NUMBER
05/15/2005	5319	100-01778

EDWARD WAGNER

PROJECT MANAGER
INSPECTOR AIR SAMPLING PROFESSIONAL

BUSINESS ADDRESS
ASBESTOS PROFESSIONAL LICENSE
ALTERING THIS CERTIFICATE MAY RESULT IN LEGAL ACTION
EDWARD WAGNER
454 SPRING ROAD APT 2
ELMHURST IL 60126
THIS LICENSE IS NOT VALID IF YOUR IDPH
COURSE CERTIFICATE IS NOT CURRENT

Printed by Authority of the State of Illinois ● 2/91 ●

THE PERSON, FIRM OR CORPORATION WHOSE NAME APPEARS ON THIS CERTIFICATE HAS COMPLIED WITH THE PROVISIONS OF THE ILLINOIS STATUTES AND/OR RULES AND REGULATIONS AND IS HEREBY AUTHORIZED TO ENGAGE IN THE ACTIVITY INDICATED ON THE FACE OF THIS CARD.

ISSUED UNDER THE AUTHORITY OF
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC HEALTH

SIGNATURE OF LICENSEE

State of Illinois A151223
Department of Public Health
LICENSE, PERMIT, CERTIFICATION, REGISTRATION
ASBESTOS PROFESSIONAL TRAINING

EXPIRATION DATE 05/15/2005
I.D. NUMBER 100-01778

EDWARD
PROJECT MANAGER
INSPECTOR AIR SAMPLING PROFESSIONAL

M·E·T·A

Mayhew Environmental Training Associates

INCORPORATED

Certificate # 7ME02067601IR006

This is to certify that

Edward P. Wagner

has on 02/06/04, in HILLSIDE, IL
completed the requirements for asbestos accreditation under Section 206 of TSCA Title II, 15 U.S.C. 2646

AHERA Asbestos Inspector Recertification Course

as approved by the State of Illinois and the U.S.E.P.A. under 40 C.F.R. 763 (AHERA)
on 02/06/04 - 02/06/04 and passed the associated examination on 02/06/04
with a score of 70% or better
C M = 0.5 PTS.

KANSAS INC. 1987 EST. 1985 MAYHEW ENVIRONMENTAL TRAINING ASSOCIATES SAFETY IN GOD ALONE

Instructor

President

Soc. Sec #: 318-46-2681
Accreditation Expires: 02/06/05

M E T A - P.O. Box 786 - Lawrence KS 66044 - 800-444-6382

State of Illinois A 148330

Department of Public Health

LICENSE, PERMIT, CERTIFICATION, REGISTRATION

ASBESTOS PROFESSIONAL LICENSE

EXPIRATION DATE	CATEGORY	I.D. NUMBER
05/15/2005	5319	100-08904

DOUGLAS McCORMICK

PROJECT MANAGER

INSPECTOR AIR SAMPLING PROFESSIONAL

THE PERSON, FIRM OR CORPORATION WHOSE NAME APPEARS ON THIS CERTIFICATE HAS COMPLIED WITH THE PROVISIONS OF THE ILLINOIS STATUTES AND/OR RULES AND REGULATIONS AND IS HEREBY AUTHORIZED TO ENGAGE IN THE ACTIVITY INDICATED ON THE REVERSE OF THIS CARD.

ISSUED UNDER THE AUTHORITY OF
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC HEALTH

SIGNATURE OF LICENSEE

State of Illinois A 148330

Department of Public Health

LICENSE, PERMIT, CERTIFICATION, REGISTRATION

The person, firm or corporation whose name appears on this certificate has complied with the provisions of the Illinois Statutes and/or rules and regulations and is hereby authorized to engage in the activity as indicated below.

ERIC E. WHITAKER, M.D. M.P.H.
DIRECTOR

Issued under the authority of
The State of Illinois
Department of Public Health

EXPIRATION DATE	CATEGORY	I.D. NUMBER
05/15/2005	5319	100-08904

DOUGLAS McCORMICK

PROJECT MANAGER

INSPECTOR AIR SAMPLING PROFESSIONAL

BUSINESS ADDRESS

ASBESTOS PROFESSIONAL LICENSE

ALTERING THIS CERTIFICATE MAY RESULT IN LEGAL ACTION

DOUGLAS McCORMICK
1651 WESTMINSTER DRIVE #203
NAPERVILLE IL 60563

THIS LICENSE IS NOT VALID IF YOUR IDPH COURSE CERTIFICATE IS NOT CURRENT

Printed by Authority of the State of Illinois ● 2/91 ●

Chicago Training Institute

Douglas McCormick

321-66-2635

Has successfully completed the 4 hour course and has passed the exam with a score of at least 70%. This 4 hour course is accredited by the Illinois Department of Public Health for purposes of accreditation in accordance with 32 CFR 763, Asbestos Hazard Emergency Response Act (AHERA) and TSCA Title II.
Training provided by Chicago Training Institute, Chicago, IL (312) 356-5400.

Asbestos Building Inspector Refresher

Course Date	Exam Date	Expiration Date	Unique Certificate #
December 20, 2004	December 20, 2004	December 20, 2005	CTI-AIR000122005-8

Janet Pruett
Trainer

Chicago Training Institute
200 South Michigan Avenue, Suite 700
Chicago, IL 60604
(312) 356-5400

A.7 LABORATORY ACCREDITATIONS

UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899-

December 30, 2004

Mr. Joseph F. Anzlovar
Environmental Design International inc.
200 South Michigan Avenue, Suite 700
Chicago, IL 60604

NVLAP Lab Code: 101868-0

Dear Mr. Anzlovar:

I am pleased to inform you that your request to change your laboratory name for continuing accreditation for specific test methods in Bulk Asbestos Fiber Analysis (PLM) has been completed. This accreditation is effective until September 30, 2005, provided that your organization continues to comply with accreditation requirements contained in the NVLAP Procedures.

Your revised Scope of Accreditation is enclosed. You may reproduce this document in its entirety and announce your organization's accreditation status using the NVLAP logo in business publications, the trade press, and other business-oriented literature. Accreditation does not relieve your organization from observing and complying with any applicable existing laws and/or regulations.

We are pleased to have you participate in NVLAP and look forward to your continued association with this program. If you have any questions concerning your NVLAP accreditation, please direct them to Thomas R. Davis, Sr. Program Manager, Laboratory Accreditation Program, National Institute of Standards and Technology, 100 Bureau Dr. Stop 2140, Gaithersburg, MD 20899-2140; (301) 975-4016.

Sincerely,

Warren R. Merkel, Chief
Laboratory Accreditation Program

Enclosure(s)

NIST

National Institute of Standards and Technology

NVLAP®

National Voluntary Laboratory Accreditation Program

ISO/IEC 17025:1999
ISO 9002:1994

Scope of Accreditation

Revised Scope 12/30/2004

BULK ASBESTOS FIBER ANALYSIS **NVLAP LAB CODE 101868-0**

ENVIRONMENTAL DESIGN INTERNATIONAL INC.
200 South Michigan Avenue, Suite 700
Chicago, IL 60604
Mr. Joseph F. Anzlovar
Phone: 312-356-5400 x222 Fax: 312-356-5499
E-Mail: zitathekat@msn.com

NVLAP Code	*Designation*
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

September 30, 2005

Effective through

For the National Institute of Standards and Technology

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 ★

ENVIRONMENTAL DESIGN INTERNATIONAL INC.

CHICAGO, IL

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:

BULK ASBESTOS FIBER ANALYSIS

September 30, 2005

Effective through

For the National Institute of Standards and Technology

NVLAP Lab Code: 101868-0

NVLAP-01C (06-01)

APPENDIX B: LEAD SURVEY

B.1 XRF RESULTS

Result	Room	Wall	Component	Substrate	Condition	Color	Value
Negative	Men's Toilet	A	Wall	Plaster	Fair	White	-0.23
Negative	Men's Toilet	B	Wall	Plaster	Fair	White	0.38
Negative	Men's Toilet	C	Wall	Plaster	Fair	White	0.48
Negative	Men's Toilet	D	Wall	Plaster	Fair	White	-0.24
Negative	Men's Toilet	*	Stall Door	Wood	Fair	White	0.74
Negative	Men's Toilet	*	Stall Wall	Wood	Fair	White	0.65
Negative	Women's Toilet	A	Wall	Plaster	Fair	White	0.43
Negative	Women's Toilet	B	Wall	Plaster	Fair	White	0.68
Negative	Women's Toilet	C	Wall	Plaster	Fair	White	0.39
Negative	Women's Toilet	D	Wall	Plaster	Fair	White	0.20
Negative	Women's Toilet	*	Stall Door	Wood	Fair	White	0.25
Negative	Women's Toilet	*	Stall Wall	Wood	Fair	White	0.02
Negative	Drying Room	C	Wall	Plaster	Fair	White	0.11
Negative	Drying Room	C	Wall	Plaster	Fair	White	-1.12
Negative	Drying Room	C	Wall	Plaster	Fair	White	-0.21
Negative	Drying Room	D	Wall	Plaster	Fair	White	-0.65
Negative	Drying Room	D	Wall	Plaster	Fair	White	-0.17
Negative	Drying Room	D	Wall	Plaster	Fair	White	0.92
Negative	Drying Room	D	Wall	Plaster	Fair	White	-0.18
Positive	Drying Room	D	Window Frame	Wood	Fair	White	23.98
Positive	Drying Room	D	Window Frame	Wood	Fair	White	18.76
Negative	Drying Room	D	Window Casing	Metal	Fair	White	0.87
Negative	Drying Room	D	Window Casing	Metal	Fair	White	0.03
Negative	Drying Room	B	Wall	Plaster	Fair	White	0.15
Negative	Drying Room	B	Wall	Plaster	Fair	White	0.45
Negative	Drying Room	B	Wall	Plaster	Fair	White	0.69
Negative	Drying Room	B	Window Casing	Metal	Fair	Beige	-0.31
Negative	Drying Room	B	Window Casing	Metal	Fair	Beige	-0.03
Positive	Drying Room	B	Window Frame	Wood	Fair	Beige	12.43
Positive	Drying Room	B	Window Frame	Wood	Fair	Beige	10.35
Negative	Drying Room	A	Wall	Plaster	Fair	White	0.62
Negative	Drying Room	A	Wall	Plaster	Fair	White	0.77
Negative	Drying Room	A	Wall	Plaster	Fair	White	0.18
Negative	Dry Cleaning Room	A	Wall	Plaster	Fair	Beige	-0.33
Negative	Dry Cleaning Room	B	Wall	Plaster	Fair	Beige	0.37
Negative	Dry Cleaning Room	D	Wall	Plaster	Fair	Beige	0.60
Negative	Dry Cleaning Room	D	Window Frame	Wood	Fair	Beige	0.63

Result	Room	Wall	Component	Substrate	Condition	Color	Value
Negative	Dry Cleaning Room	D	Window Casing	Metal	Fair	Beige	0.51
Negative	Dry Cleaning Room	D	Window Casing	Metal	Fair	Beige	0.08
Negative	Alteration Room	A	Wall	Plaster	Fair	White	-1.98
Negative	Alteration Room	B	Wall	Plaster	Fair	White	-1.03
Negative	Alteration Room	C	Wall	Plaster	Fair	White	-1.64
Negative	Alteration Room	D	Wall	Plaster	Fair	White	0.63
Positive	Alteration Room	B	Window Frame	Wood	Fair	Blue	6.31
Positive	Alteration Room	B	Window Frame	Wood	Fair	Blue	2.32
Negative	Alteration Room	B	Window Casing	Metal	Fair	Blue	0.32
Negative	Alteration Room	B	Window Casing	Metal	Fair	Blue	0.71
Negative	Manager's Office	A	Wall	Wood	Fair	White	0.39
Negative	Manager's Office	B	Wall	Wood	Fair	Beige	0.07
Negative	Manager's Office	C	Wall	Wood	Fair	Beige	-0.03
Negative	Manager's Office	D	Wall	Wood	Fair	Beige	-0.59
Negative	Manager's Office	D	Window Frame	Wood	Fair	Beige	0.87
Negative	Manager's Office	D	Window Casing	Metal	Fair	Brown	0.04
Negative	Manager's Office	C	Door	Wood	Fair	Beige	0.35
Negative	Manager's Office	C	Door Jamb	Wood	Fair	Beige	-1.33
Negative	Manager's Office	C	Door Casing	Wood	Fair	Beige	-0.54
Negative	Entrance/Laundry Pickup	A	Wall	Plaster	Fair	White	-0.48
Negative	Entrance/Laundry Pickup	C	Wall	Plaster	Fair	White	0.88
Negative	Building Exterior	A	Wall	Wood	Fair	Beige	-1.33
Negative	Building Exterior	B	Wall	Wood	Fair	Beige	-0.24
Negative	Building Exterior	C	Wall	Wood	Fair	Beige	0.86
Negative	Building Exterior	D	Wall	Wood	Fair	Beige	0.13
Negative	Building Exterior	*	Soffit	Wood	Fair	Brown	-1.09
Negative	Building Exterior	*	Soffit	Wood	Fair	Brown	-0.04
Negative	Building Exterior	*	Soffit	Wood	Fair	Brown	-0.66
Negative	Building Exterior	*	Soffit	Wood	Fair	Brown	-0.18
Positive	Building Exterior-Upper Portion	A	Window Frame	Wood	Fair	Beige	2.35
Positive	Building Exterior-Upper Portion	B	Window Frame	Wood	Fair	Beige	1.50
Positive	Building Exterior-Upper Portion	C	Window Frame	Wood	Fair	Beige	5.24
Positive	Building Exterior-Upper Portion	D	Window Frame	Wood	Fair	Beige	3.65

Result	Room	Wall	Component	Substrate	Condition	Color	Value
Positive	Drying Room	D	Window Frame	Wood	Fair	White	23.98
Positive	Drying Room	D	Window Frame	Wood	Fair	White	18.76
Positive	Drying Room	B	Window Frame	Wood	Fair	Beige	12.43
Positive	Drying Room	B	Window Frame	Wood	Fair	Beige	10.35
Positive	Alteration Room	B	Window Frame	Wood	Fair	Blue	6.31
Positive	Alteration Room	B	Window Frame	Wood	Fair	Blue	2.32
Positive	Building Exterior-Upper Portion	A	Window Frame	Wood	Fair	Beige	2.35
Positive	Building Exterior-Upper Portion	B	Window Frame	Wood	Fair	Beige	1.50
Positive	Building Exterior-Upper Portion	C	Window Frame	Wood	Fair	Beige	5.24
Positive	Building Exterior-Upper Portion	D	Window Frame	Wood	Fair	Beige	3.65

B.2 INSPECTOR LICENSES, CERTIFICATIONS AND ACCREDITATIONS

State of Illinois

A 147042

Department of Public Health

LICENSE, PERMIT, CERTIFICATION, REGISTRATION

The person, firm or corporation whose name appears on this certificate has complied with the provisions of the Illinois Statutes and/or rules and regulations and is hereby authorized to engage in the activity as indicated below.

ERIC E. WHITAKER, M.D. M.P.H.
DIRECTOR

Issued under the authority of
The State of Illinois
Department of Public Health

EXPIRATION DATE	CATEGORY	I.D. NUMBER
N/A	5317	L- 006743

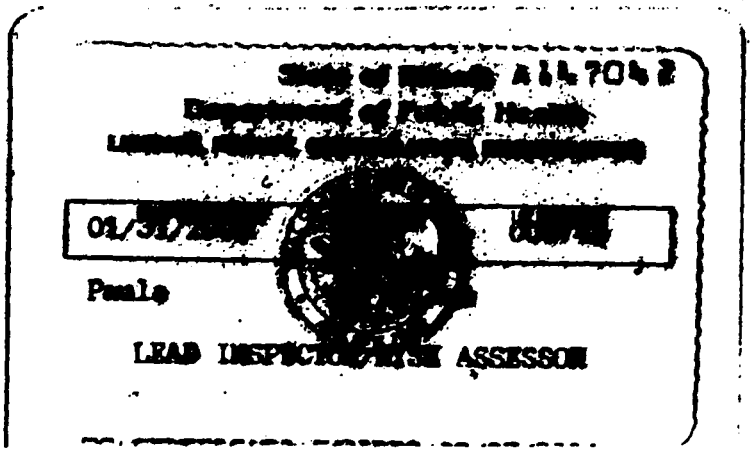
Paula M Dillon
3RD PARTY LEAD RISK ASSESSOR CERTIFICATE

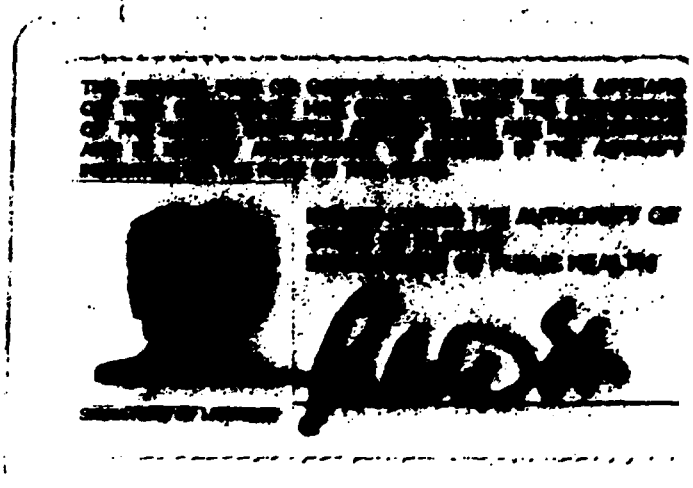
CERTIFICATE R/A 106743 006743

XXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXX

This certifies that you have passed the Third Party Examination for Lead Risk Assessor with a score of 78%. Exam Date: 02/04/2004
TRAINING COURSE CERTIFICATE EXPIRES 09/07/2004

Printed by Authority of the State of Illinois ● 2/91 ●





CERTIFICATE OF ACHIEVEMENT

Lead Risk Assessment Recertification

Accredited by Illinois Department of Public Health

This is to certify that PAULA DILLON has completed the 8-HOUR LEAD RISK ASSESSMENT RECERTIFICATION course and successfully passed the examination on 11/05/2004 with a minimum score of 70%. Training was in accordance with Title X, U.S. EPA Model Training Course Curriculum, 1995, the HUD Guidelines, 1995, and the Illinois Dept. of Public Health, 1998.

PUBLIC HEALTH & SAFETY inc.
Environmental and Occupational Services
105 S. Ashland Ave., Chicago, IL 60607

11/05/2004
Course Dates:

11/06/2007
Expires:

0411RAR03
Certificate Number:

Phone Number: (312) 421-7397

Director of Training
Nicholas J. Peneff
Doctor of Public Health

FORM # L-017B

APPENDIX C: HAZARDOUS MATERIALS SURVEY SUMMARY

C.1 HAZARDOUS MATERIALS PHOTOLOG

PHOTOGRAPH LOG

Project Name	Great Lakes Naval Center: Building 220 - Hazardous Materials Survey

Proj: 421.022.01

Date: 1/21/05

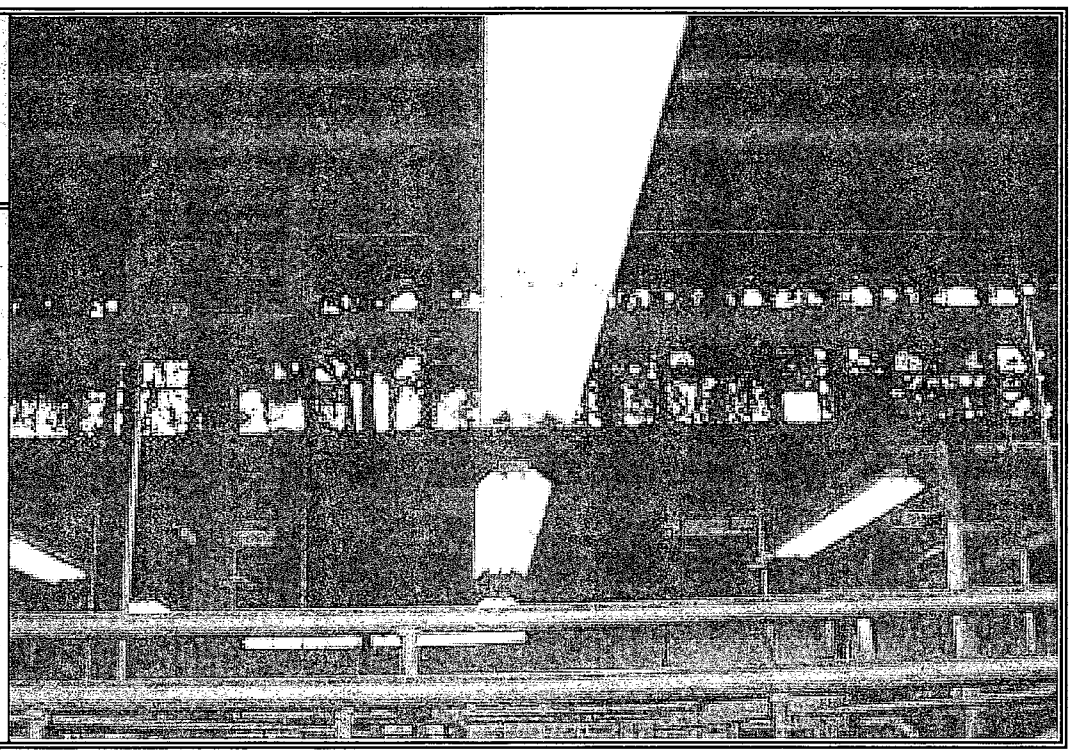
Photographed By:

Zachery Clayton

Description:

View of fluorescent light ballasts observed throughout Building 220

PHOTO #1



Proj: 421.022.01

Date: 1/21/05

Photographed By:

Zachery Clayton

Description:

View of 30-gallon plastic drums of "Crystal Soltex"

PHOTO #2

PHOTOGRAPH LOG

Project Name	Great Lakes Naval Center: Building 220 - Hazardous Materials Survey

Proj: 421.022.01

Date: 1/21/05

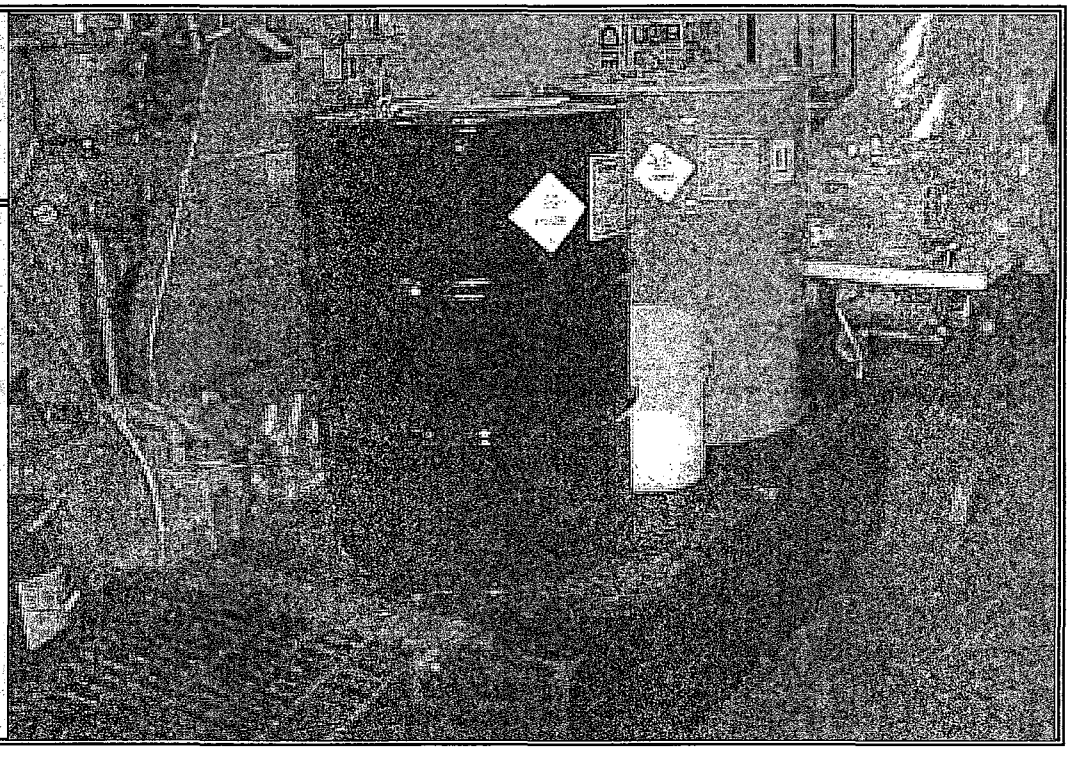
Photographed By:

Zachery Clayton

Description:

View of two 55-gallon steel drums of waste tetrachloroethylene (PERC) observed with secondary containment

PHOTO #3



Proj: 421.022.01

Date: 1/21/05

Photographed By:

Zachery Clayton

Description:

View of yellow cabinet used to store various chemicals associated with dry cleaning and laundry operations

PHOTO #4

PHOTOGRAPH LOG

Project Name	Great Lakes Naval Center: Building 220 - Hazardous Materials Survey

Proj: 421.022.01

Date: 1/21/05

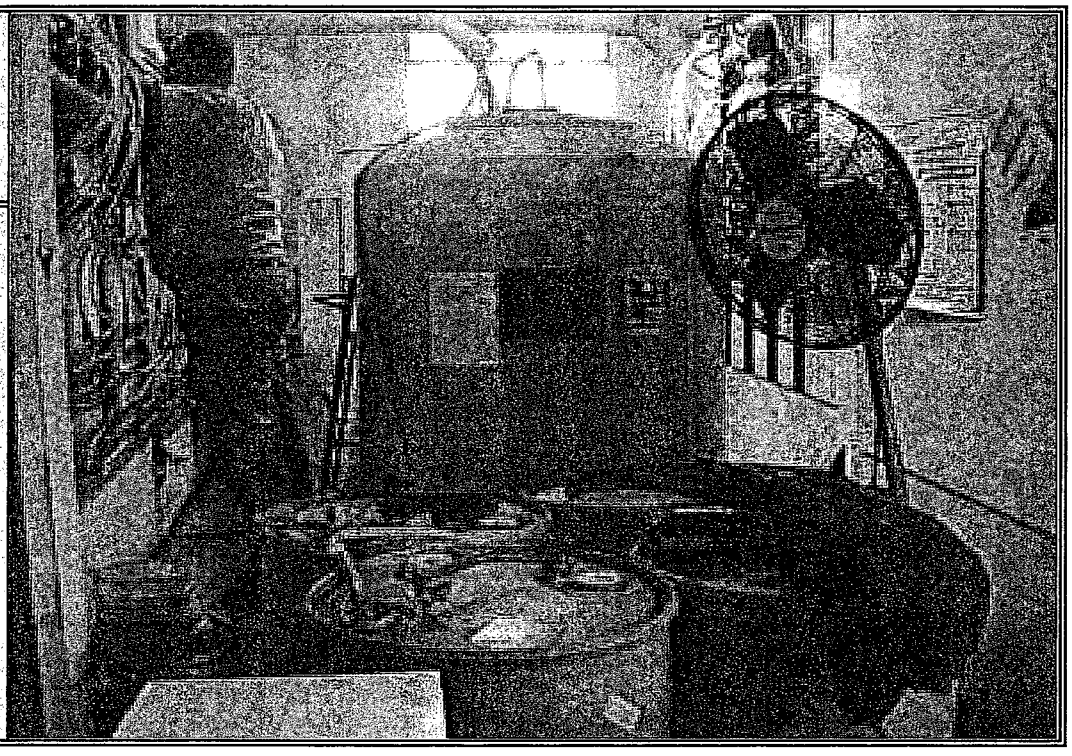
Photographed By:

Zachery Clayton

Description:

View of 55-gallon drums of Oxy-Plus (hydrogen peroxide) and 300-gallon plastic AST

PHOTO #5



Proj: 421.022.01

Date: 1/21/05

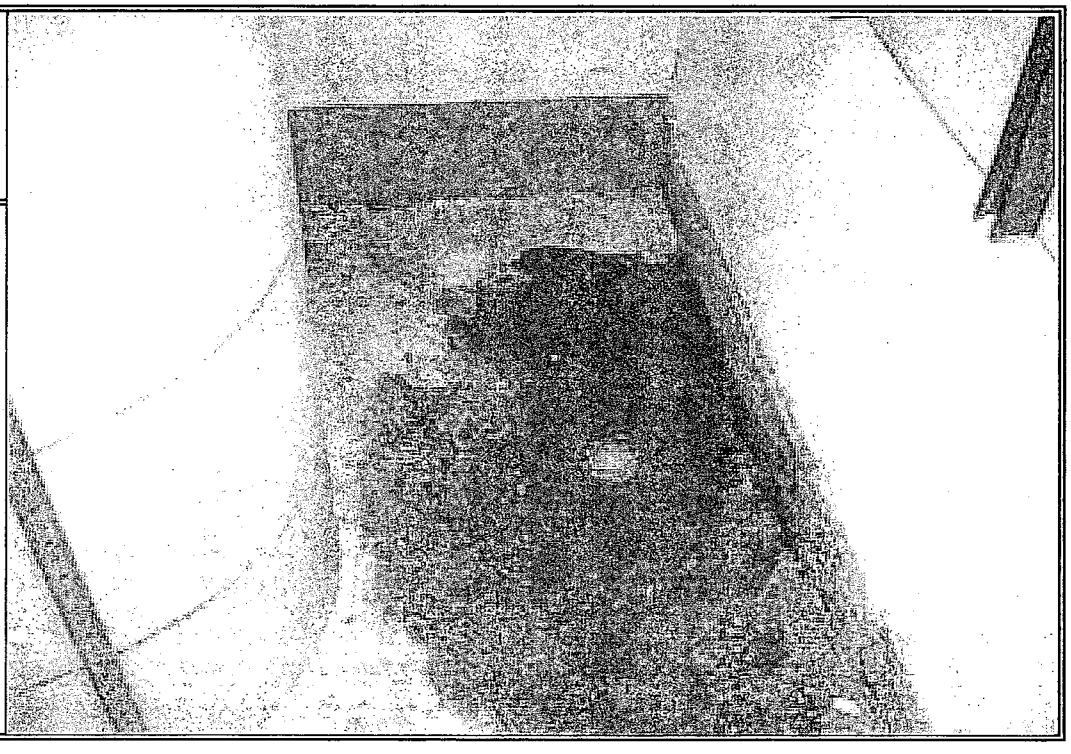
Photographed By:

Zachery Clayton

Description:

View of spilled detergwent in the AST storage room.

PHOTO #6



C.2 AUTHORIZED HAZARDOUS MATERIAL LIST

NAVSTA HAZMAT AUTHORIZED USE LIST

National Stock No.	MSDS #	Chemical of Noun Name	Manufacturer	Unit Issue	Auth. Qty	Process	Cost Center	Bldg.
4210 00 965 1105	51105	FORAY DRY CHEM. EXTING. AGENT	ANSUL FIRE PROTECTION	CN	6	FIRE FIGHTING	❖	❖
5640 00 454 9351	BJVZP	WALL BOARD JOINT COMPOUND	UNITED STATES GYPSUM COMPANY	CN	6	REPAIRING DRYWALL	❖	❖
6508 00 N05 3101	CDHWJ	ANTIBACTERIAL CLEAN & SMOOTH HAND SOAP	ECOLAB, INCORPORATED	DR	2	HAND CLEANING	❖	❖
6508 00 N06 8496	CBHWT	ANTI-BACTERIAL MOISTURIZING SOAP	SOFT SOAP ENTERPRISES, INC	BT	6	HYGIENE	❖	❖
6810 00 201 1316	CKRDV	CALUMENT 142 FLASH NAPTHA RULE 66	CALUMENT LUBRICANTS COMPANY	GL	6	PMS	NTC1062	220
6810 00 227 0437	BWGXR	ROCK SALT	CARGILL, INCORPORATED	BG	50	DE-ICING	❖	❖
6810 01 104 7939	BLLXH	ROCK SALT	MORTON SALT DIVISION	BG	10	DE-ICING	❖	❖
6810 LL HAZ 5107	Z5107	HYDROGEN PEROXIDE 35%	THOMPSON-HAYWARD CHEMICAL CO	GL	6	CLEANING STAINS	NTC1062	220
6810 LL HAZ 5599	Z5599	PERCHLOROETHYLENE, PERC	R.R. STREET & CO, INCORPORATED	DR	6	LAUNDERING	NTC1062	220
6810 LL HAZ 5611	Z5611	SODIUM HYPOCHLORITE	HIGH-PO-CHLOR, INCORPORATED	GL	6	LAUNDERING	NTC1062	220
6810 LL L00 0100	00100	LIQUID BLEACH "SODIUM HYPOCHLORITE"	ONLINE PACKAGING, INCORPORATED	GL	6	LAUNDERING	❖	❖
6810 LL L00 0100	00100	BLEACH LIQUID	REINHART	GL	6	LAUNDERING	❖	❖
6840 00 246 6438	BNKPN	URINAL CAKES	FRESH PRODUCTS	BX	4	DEODORIZING	❖	❖
6840 00 664 6610	BNWMZ	URINAL CAKES	LIGHTHOUSE FOR THE BLIND	BX	4	DEODORIZING	❖	❖
6840 00 N04 2362	BSTGK	LYSOL BRAND DISINFECTANT SPRAY FRESH SCENT	LYSOL	CN	6	DISINFECTING	❖	❖
6840 01 261 6057	BWPVF	RESOLVE PROCARE	AIRKEM PROFESSIONAL PRODUCTS	CN	2	DEODORIZING	❖	❖
6840 01 261 6057	BHWTY	CARPET-TEX RUG & RM DEODORIZER	LEHN & FINK INDUSTRIAL	BX	6	DEODORIZING	❖	❖
6840 01 498 8031	88031	ECOTRU	ENVIROSYSTEMS INCORPORATED	OZ	6	CLEANING MAINTENANCE	❖	❖
6840 01 498 8039	88039	ECOTRU	ENVIROSYSTEMS INCORPORATED	GL	6	CLEANING MAINTENANCE	❖	❖
6850 00 926 2275	BSYYZ	CLEANING COMPOUND, WINDSHIELD	LHB INDUSTRIES	PT	6	Maintenance of VEHICLES	❖	❖
6850 00 949 1379	BRGLJ	LIME-A-WAY	ECOLAB, INCORPORATED	GL	6	DE-SCALING	❖	❖
6850 00 F03 9053	BWWGG	FORMULA TIDE	PROCTOR & GAMBLE COMPANY	BX	6	MAINTENANCE	❖	❖
6850 00 F03 9053	BAAGG	EXPO DRY ERASE CLEANER	SANFORD CORPORATION	BT	2	CLEANING CHALKBOARDS	❖	❖
6850 01 014 1324	BWRCG	CLOROX 2	THE CLOROX COMPANY	BT	6	LAUNDERING	❖	❖
6850 01 207 3835	BNQDK	STATICIDE	ACL INCORPORATED	QT	2	CLEANING	❖	❖
6850 01 285 8354	BRRLL	INSTITUTIONAL FORMULA TIDE	PROCTOR & GAMBLE COMPANY	BX	10	LAUNDERING	❖	❖
6850 01 285 8354	BRRLL	EXPO DRY ERASE CLEANER	SANFORD CORPORATION	BT	6	PMS	❖	❖
6850 LL H AZ 6399	Z6399	FIRST IMPRESSION MICRO AEROSOL (VARIETY PACK)	ECOLAB, INCORPORATED	GL	6	CLEANING	❖	❖
6850 LL HAZ 5587	Z5587	CAL STRIP/PURPLE MAGIC	CALED SIGNAL CHEMICAL	GL	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5588	Z5588	ELIMININK - ISOPROPYL ESTER	NEWHOUSE SPECIALTY CO., INC	GL	6	LAUNDERING	NTC1062	220

❖ denotes All Buildings Approved

AUL's before 11 JAN 2005 are obsolete

NAVSTA HAZMAT AUTHORIZED USE LIST

National Stock No.	MSDS #	Chemical of Noun Name	Manufacturer	Unit Issue	Auth. Qty	Process	Cost Center	Bldg.
6850 LL HAZ 5589	Z5589	VOLATILE DRY SPOTTER (V.D.S.)	LAIDLAW CORPORATION	QT	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5590	Z5590	PROTEIN SPOTTER	LAIDLAW CORPORATION	QT	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5592	Z5592	SILK PRESPOTTER	LAIDLAW CORPORATION	GL	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5593	Z5593	SILK SHEEN	LAIDLAW CORPORATION	GL	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5594	Z5594	INJECTABLE SIZING	LAIDLAW CORPORATION	GL	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5595	Z5595	LAUNDRY WETSPO	LAIDLAW CORPORATION	GL	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5596	Z5596	WETSPO	LAIDLAW CORPORATION	GL	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5598	Z5598	COLLAR SOLUTION	LAIDLAW CORPORATION	GL	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5600	Z5600	RUSTGO	A.L. WILSON CHEMICAL COMPANY	QT	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5603	Z5603	NEUTRA CLOR	GURTLER CHEMICALS, INC	GL	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5604	Z5604	FAULTLESS INSTANT STRCH-BULK L	FAULTLESS STARCH	CN	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5605	Z5605	BAN-TAN	LAIDLAW CORPORATION	QT	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5606	Z5606	R.S.R.(RAPID SPOT REMOVER)	LAIDLAW CORPORATION	QT	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5607	Z5607	PAINT OIL AND GREASE REMOVER	LAIDLAW CORPORATION	QT	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5613	Z5613	AERO CLEAN	PALMER COMPANY	GL	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5614	Z5614	CHEM BRITE	HAAG LABS COMPANY	CN	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5666	Z5666	ROCK SALT	BOUGHT ACCORDING TO SPEC.	LB	50	WATER TREATMENT	❖	❖
6850 LL HAZ 5753	Z5753	ULTRA FABRIC SOFTENER	CHEM-X CORPORATION	BT	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5754	Z5754	LAUNDRY SOUR PLUS	CHEM-X CORPORATION	BT	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5755	Z5755	POER PLUS	CHEM-X CORPORATION	BT	6	LAUNDERING	NTC1062	220
6850 LL HAZ 5869	Z5869	10LB ABC EXTINGUISHER	KIDDE PORTABLE EQUIPMENT CO	LB	6	EXTINGUISHING FIRES	❖	❖
6850 LL HAZ 5957	Z5957	FOLLOWERS DUSTER (PL1871-FL-2.75S)	STRATUS	CN	6	Maintenance of COMPUTERS	❖	❖
6850 LL HAZ 5960	Z5960	SPOT/STAIN REMOVER	UNISAN	BT	6	REMOVES STAINS	❖	❖
6850 LL HAZ 5961	Z5961	TRAFFIC LANE CARPET CLEANER	S.C. JOHNSON COMMERCIAL	BT	6	CLEANING CARPETS	❖	❖
6850 LL HAZ 6027	Z6027	CRYSTAL SOLTEX	LAIDLAW CORPORATION	BX	6	LAUNDERING	NTC1062	220
6850 LL HAZ 6028	Z6028	PRESOAK BUILDER	CHEM-X CORPORATION	BX	6	LAUNDERING	NTC1062	220
6850 LL HAZ 6034	Z6034	SODIUM CARBONATE ANHYDROUS	FMC WYOMING CORPORATION	GL	6	LAUNDERING	NTC1062	220
6850 LL HAZ 6035	Z6035	LINEN CLEAN PLUS-III	CHEM-X CORPORATION	GL	6	LAUNDERING	NTC1062	220
6850 LL HAZ 6036	Z6036	SOFT SOUR	CHEM-X CORPORATION	GL	6	LAUNDERING	NTC1062	220
6850 LL HAZ 6037	Z6037	TERGIT	LAIDLAW CORPORATION	GL	6	LAUNDERING	NTC1062	220

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NAVSTA HAZMAT AUTHORIZED USE LIST

National Stock No.	MSDS #	Chemical of Noun Name	Manufacturer	Unit Issue	Auth. Qty.	Process	Cost Center	Bldg.
6850 LL HAZ 6048	Z6048	FINAL	PDQ MANUFACTURING, INC	GL	6	LAUNDERING	NTC1062	220
6850 LL HAZ 6400	Z6400	FIRST IMPRESSION AIR FRESHENER	ECOLAB, INCORPORATED	GL	6	CLEANING	❖	❖
6850 LL HAZ 6400	Z6400	FIRST IMPRESSION MICRO AEROSOL (MANDARIN-BURST FRAGRANCE)	ECOLAB, INCORPORATED	GL	6	CLEANING	❖	❖
6850 LL HAZ 6401	Z6401	FIRST IMPRESSION MICRO-AEROSOL	ECOLAB, INCORPORATED	CN	6	CLEANING	❖	❖
6850 LL HAZ 6403	Z6403	DISINFECTANT WIPES	ECOLAB, INCORPORATED	BX	6	CLEANING MAINTENANCE	❖	❖
6850 LL HAZ 6404	Z6404	ENDURE 300 CIDA RINSE GEL ANTIMICROBIAL HAND RINSE	HUNTINGTON PROFESSIONAL PRODUCTS	GL	6	CLEANING MAINTENANCE	❖	❖
6850 LL HAZ 6409	Z6409	OMNI PAK	ECOLAB, INCORPORATED	GL	6	CLEANING FLOORS	❖	❖
6850 LL HAZ 6410	Z6410	OASIS PRO 60 HEAVY DUTY ALKALINE BATH CLEANER	ECOLAB, INCORPORATED	GL	6	CLEANING MAINTENANCE	❖	❖
6850 LL L00 0014	00014	EXPO DRY ERASE CLEANER	SANFORD CORPORATION	GL	6	CLEANING CHALKBOARDS	❖	❖
7045 LL L00 1090	01090	PERFECTDUSTER	PERFECTDATA CORPORATION	CN	6	CLEANING	❖	❖
7510 00 161 4237	BVFKG	STAMP PAD INK (BLACK)	AMERICAN WRITING INK CO., INC	BT	2	STAMPING	❖	❖
7510 00 161 4240	BDDKP	STAMP PAD INK (RED)	AMERICAN WRITING INK CO., INC	BT	2	STAMPING	❖	❖
7510 00 616 9588	BJHVF	ANTI-TATIC CLEANER	ACCO, USA	CN	2	CLEANING TYPEWRITERS	❖	❖
7510 01 020 2806	BKHTQ	CORRECTION FLUID	LIGHTHOUSE FOR THE BLIND	BT	12	CORRECTION FLUID	❖	❖
7920 00 823 9818	CKZZR	NEVR-DULL METAL POLISH	GEORGE BASCHE COMPANY	CN	2	POLISHING	❖	❖
7920 00 823 9818	BWGKF	NEVER-DULL PADPAD, METAL POLISH IMPREGNATED 5 OZ CAN	GEORGE BASCHE COMPANY	CN	6	PMS	❖	❖
7920 00 823 9818	BWGKF	PAD, METAL POLISH IMPREGNATED 5 OZ CAN	M & H HERITAGE, INCORPORATED	CN	6	PMS	❖	❖
7920 00 823 9818	BWGKF	NEVER-DULL PAD, METAL POLISH IMPREGNATED 5 OZ CAN	MOTHERS POLISHES WAXES CLEANERS	CN	6	PMS	❖	❖
7930 00 249 8036	BWRWG	GENERAL PURPOSE DETERGENT	TRONEX CHEMICAL CORPORATION	LB	5	CLEANING	❖	❖
7930 00 282 9699	BNTDT	DETERGENT, GENERAL PURPOSE	LHB INDUSTRIES	GL	1	PMS	❖	❖
7930 00 504 6585	BLHGY	DETERGENT, LAUNDRY	PROCTOR & GAMBLE COMPANY	BX	6	LAUNDERING	❖	❖
7930 00 880 4454	BJXPD	DISHWASH CMPD-SO-SURE	LHB INDUSTRIES	GL	1	PMS	❖	❖
7930 00 N03 5162	BQCFQ	LOW & BEHOLD	ECOLAB, INCORPORATED	QT	6	Maintenance of FLOORS	❖	❖
7930 00 N03 7806	BQWVN	LIQUID STARCH-STA FLO	DIAL CORPORATION	GL	6	LAUNDERING	❖	❖
7930 00 N1B 0137	B0137	BRITE WHITE NP/PRE MEASURED LAUNDRY DETERGENT	ECOLAB, INCORPORATED	CS	3	LAUNDERING	❖	❖
7930 01 342 5315	BVYLN	SIMPLE GREEN #13012	SUNSHINE MAKERS, INCORPORATED	BT	6	CLEANING FILTERS	❖	❖
7930 01 380 8437	CCKNT	BEHOLD	ECOLAB, INCORPORATED	CN	6	POLISHING	❖	❖
7930 01 380 8472	BZTFR	LIBERTY FLOOR STRIPPER	ECOLAB, INCORPORATED	GL	6	STRIPPING FLOORS	❖	❖
7930 01 381 5848	15848	EXTRACTION PLUS	S.C. JOHNSON & SON, INC	BX	6	CLEANING CARPETS	❖	❖
7930 01 381 5978	15978	RUGBEE SOLVENT SPOTTER	S.C. JOHNSON & SON, INC	BX	6	REMOVES SPOTS	❖	❖

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NAVSTA HAZMAT AUTHORIZED USE LIST

National Stock No.	MSDS #	Chemical of Noun Name	Manufacturer	Unit Issue	Auth. Qty	Process	Cost Center	Bldg.
7930 01 418 1224	CFDLD	LASTING IMPRESSION	ECOLAB, INCORPORATED	BX	6	Maintenance of FLOORS	❖	❖
7930 01 418 1228	81228	LIQUID BIOLOGICAL DRAIN CLEAN	ECOLAB, INCORPORATED	CN	6	CLEARING DRAINS	❖	❖
7930 LL HAZ 5256	Z5256	ANTIMICROBIAL LOTION SOAP	NORTH AMERICAN PAPER COMPANY	BT	6	HYGIENE	NTC1062	220
7930 LL HAZ 5377	Z5377	LIQUID ANTIBACTERIAL SOAP	THE DIAL CORPORATION	BT	6	HYGIENE	❖	❖
7930 LL HAZ 5417	Z5417	DRY SWEEP ABSORBANT	ADVANTAGE SANCO	BG	6	CLEANING FLOORS	❖	❖
7930 LL HAZ 5612	Z5612	GENTLE LOTION CLEANSER	SANI-FRESH INTERNATIONAL, INC	GL	6	CLEANING CARPETS	NTC1062	220
7930 LL HAZ 5747	Z5747	TIDE WITH BLEACH	PROCTOR & GAMBLE COMPANY	BX	6	LAUNDERING	❖	❖
7930 LL HAZ 5784	Z5784	HEAD CLEANING SOLUTION	MICROCLEAN, INCORPORATED	TU	6	Maintenance of COMPUTERS	❖	❖
7930 LL HAZ 6340	Z6340	STAINBLASTER	ECOLAB, INCORPORATED	GL	6	CLEANING	❖	❖
7930 LL HAZ 6344	Z6344	PHAZER MONOSTAR/ULTRA HIGH SOLIDS FLOOR FINISH	ECOLAB, INCORPORATED	GL	6	MAINTENANCE	❖	❖
7930 LL HAZ 6357	Z6357	REVITALIZED 701 RUG & RM DEORDORIZER	ECOLAB, INCORPORATED	CN	6	CLEANING CARPETS	❖	❖
7930 LL HAZ 6393	Z6393	OASIS PRO 40 HEAVY DUTY GLASS CLEANER-NON AMMONIATED	ECOLAB, INCORPORATED	GL	6	CLEANING MAINTENANCE	❖	❖
7930 LL HAZ 6394	Z6394	OASIS PRO 50 OCEAN WAVES ODER COUNTERACTANT	ECOLAB, INCORPORATED	GL	6	CLEANING MAINTENANCE	❖	❖
7930 LL HAZ 6395	Z6395	OASIS PRO 20 (CLEANER & DISINFECTANT)	ECOLAB, INCORPORATED	GL	6	CLEANING	❖	❖
7930 LL HAZ 6438	Z6438	ZEP ZC CONCENTRATE E	ZEP MANUFACTURING COMPANY	GL	6	CLEANING	NTC1062	220
7930 LL HAZ 6449	Z6449	CLEAN-UP HD WASHRROM CLEANER	THE RAMSEY COMPANY	GL	6	CLEANING	❖	❖
7930 LL HAZ 6450	Z6450	QUICK LIFT NO RINSE FLOOR STRIPPER	THE RAMSEY COMPANY	GL	6	CLEANING FLOORS	❖	❖
7930 LL HAZ 6457	Z6457	OASIS PRO 30 (HEAVY DUTY FLOOR CLEANER)	ECOLAB, INCORPORATED	GL	6	CLEANING FLOORS	❖	❖
7930 LL HAZ 6458	Z6458	OASIS PRO 10 (HEAVY DUTY CLEANTER/DEGREASEOR)	ECOLAB, INCORPORATED	GL	6	DECREASING	❖	❖
7930 LL HAZ 6459	Z6459	FIRST IMPRESION FIXTURE CLEANER - MANDARIN ORANGE	ECOLAB, INCORPORATED	GL	6	FRESHENS AIR	❖	❖
7930 LL L00 111D	111D	OASIS 100 DILUTED	ECOLAB, INCORPORATED	CO	4	CLEANING	❖	❖
7930 LL L00 1301	01301	CLEANER ANTIBACTERIAL S	ECOLAB, INCORPORATED	PT	6	HYGIENE	❖	❖
7930 LL L00 222D	0222D	OASIS 136 DILUTED	ECOLAB, INCORPORATED	CO	4	CLEANING	❖	❖
7930 LL L00 2347	02347	LASTING IMPRESSION	ECOLAB, INCORPORATED	DR	6	Maintenance of FLOORS	❖	❖
7930 LL L00 2353	02353	DYNAMIX CARPET CLEANER	ECOLAB, INCORPORATED	BT	6	CLEANING CARPETS	❖	❖
7930 LL L00 2359	02359	FIRST IMPRESSION FIXTURE CLEANER	ECOLAB, INCORPORATED	CO	6	CLEANING	❖	❖
7930 LL L00 333D	0333D	OASIS 144 DILUTED	ECOLAB, INCORPORATED	CO	4	DISINFECTING	❖	❖
7930 LL L00 444D	0444D	OASIS 256 DILUTED	ECOLAB, INCORPORATED	CO	4	CLEANING GLASS	❖	❖
7930 LL L00 555D	0555D	OASIS 277 DILUTED	ECOLAB, INCORPORATED	CO	3	AIR FRESHNER	❖	❖
7930 LL L00 666D	0666D	OASIS 297 DILUTED	ECOLAB, INCORPORATED	CO	4	DISINFECTING	❖	❖

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National Stock No.	MSDS #	Chemical of Noun Name	Manufacturer	Unit Issue	Auth. Qty	Process	Cost Center	Bldg.
8010 00 242 2089	BKBBM	THINNER PAINT	CSD, INCORPORATED	GL	1	PAINT PRESERVATION	❖	❖
8010 00 598 5730	BVWYQ	WHITE LATEX PAINT	ROSE TALBERT COMPANY	GL	30	MAINTENANCE	❖	❖
8010 00 F00 6425	06425	INTERIOR LATEX SEMI-GLOSS ENAMEL, EXTRA WHITE	SHERWIN-WILLIAMS COMPANY	CN	4	PAINT PRESERVATION	❖	❖
8010 00 F00 6425	06425	INTERIOR LATEX SEMI-GLOSS ENAMEL, EXTRA WHITE	SHERWIN-WILLIAMS COMPANY	GL	4	PAINT PRESERVATION	❖	❖
8010 00 F00 9732	BHLMS	PAINT, ACRYLIC BLACK PAINT	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8010 00 F05 2069	CCZXL	DTM ACRYLIC GLOSS B66T104	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8010 00 F05 3017	CDQXP	ACRYLIC LIGHT BLUE PAINT	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8010 00 N02 8966	BMYNP	DTM ACRYLIC GLOSS, SAFTY RED B66R38	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8010 00 N06 1982	BYGKW	SETFAST WATER BORNE TRAFFIC, TM2135	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8010 00 N07 4819	CCTFV	ACRYLIC DARK GRAY PAINT	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8010 00 N07 4820	CCTFW	ACRYLIC DARK BLUE PAINT	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8010 00 N07 4821	CCTFX	ACRYLIC TERA COTTA PAINT	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8010 00 N07 8668	CFHXY	KILZ TOTAL ONE	MASTERCHEM INDUSTRIES, INC	GL	6	PRESERVATION	❖	❖
8010 00 N09 0360	CHYKD	TRAFFIC MARKING PAINT(SUPDAT) TM-2152	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8010 01 285 1329	BXCHN	PRIMER COATING	CRAWFORD LABORATORIES, INC	GL	2	PAINT PRESERVATION	❖	❖
8010 LL HAZ 5949	Z5949	TRAFFIC MARKING PAINT (RED TM2132)	SHERWIN-WILLIAMS COMPANY	GL	6	PAINT PRESERVATION	❖	❖
8010 LL HAZ 6391	Z6391	PROMAR 200 INTERIOR LATEX FLAT PAINT, E-TRA WHITE	SHERWIN-WILLIAMS COMPANY	GL	6	MAINTENANCE	❖	❖
8010 LL HAZ 6392	Z6392	PROMAR 400 INTERIOR LATEX SEMI GLOSS ALMOND	SHERWIN-WILLIAMS COMPANY	GL	6	MAINTENANCE	❖	❖
8010 LL L00 0617	00617	PROMAR 200 INTERIOR LATEX FLAT PAINT WHITE	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8010 LL L00 1354	01354	LATEX S-GLOSS ALMOND	SHERWIN-WILLIAMS COMPANY	CN	2	PAINT PRESERVATION	❖	❖
8010 LL L00 1354	01354	PROMAR 400 INTERIOR LATEX SMI-GLOSS ENAMEL, ALMOND	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8010 LL L00 1356	01356	HAZE GRAY ALKYD ENAMEL	SHERWIN-WILLIAMS COMPANY	GL	6	PAINT PRESERVATION	❖	❖
8010 LL L00 1357	01357	DECK GRAY ALKYD ENAMEL	SHERWIN-WILLIAMS COMPANY	GL	6	PAINT PRESERVATION	❖	❖
8010 LL L00 1359	01359	ACRYLIC GREEN	SHERWIN-WILLIAMS COMPANY	GL	6	PAINT PRESERVATION	❖	❖
8010 LL L00 1360	01360	PAINT ENAMEL ACRYLIC RED	SHERWIN-WILLIAMS COMPANY	GL	4	PAINT PRESERVATION	❖	❖
8010 LL L00 1365	01365	ACRYLIC LIGHT GRAY PAINT	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8010 LL L00 1367	01367	ACRYLIC YELLOW	SHERWIN-WILLIAMS COMPANY	GL	6	PAINT PRESERVATION	❖	❖
8010 LL L00 1367	01367	DTM ACRYLIC YELLOW PAINTB66W213	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8010 LL L00 1368	01368	7211 FLAT BLACK	KRYLON PRODUCTS	PT	6	PAINT PRESERVATION	❖	❖
8010 LL L00 1369	01369	7210 GLOSS BLACK	KRYLON PRODUCTS	PT	6	PAINT PRESERVATION	❖	❖

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NAVSTA HAZMAT AUTHORIZED USE LIST

National Stock No.	MSDS #	Chemical of Noun Name	Manufacturer	Unit Issue	Auth. Qty	Process	Cost Center	Bldg.
8010 LL L00 1370	01370	7200 GLOSS WHITE	KRYLON PRODUCTS	PT	6	PAINT PRESERVATION	❖	❖
8010 LL L00 1371	01371	7205 GLOSS BLUE	KRYLON PRODUCTS	PT	6	PAINT PRESERVATION	❖	❖
8010 LL L00 1372	01372	7215 GLOSS GREEN	KRYLON PRODUCTS	PT	6	PAINT PRESERVATION	❖	❖
8010 LL L00 1373	01373	7219 GLOSS RED	KRYLON PRODUCTS	PT	6	PAINT PRESERVATION	❖	❖
8010 LL L00 1374	01374	7221 GLOSS YELLOW	KRYLON PRODUCTS	PT	6	PAINT PRESERVATION	❖	❖
8010 LL L00 1375	01375	7209 GRAY PRIMER	KRYLON PRODUCTS	PT	6	PAINT PRESERVATION	❖	❖
8010 LL L00 1376	01376	KRYLON INTERIOR/EXTERIOR PAINT, HUNTER GREEN	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8010 LL L00 1376	01376	TRAFFIC MARKING PAINT (YELLOW TM 2155)	SHERWIN-WILLIAMS COMPANY	CN	6	PAINT PRESERVATION	❖	❖
8010 LL L00 1377	01377	TRAFFIC MARKING PAINT (WHITE TM2136)	SHERWIN-WILLIAMS COMPANY	CN	6	PAINT PRESERVATION	❖	❖
8010 LL L00 1380	Z5912	SEMI-GLOSS ENAMEL-NAVEE	SHERWIN-WILLIAMS COMPANY	GL	6	PAINT PRESERVATION	❖	❖
8010 LL L00 1381	01381	DTM ACRLIC BROWN PAINT B66T204	SHERWIN-WILLIAMS COMPANY	GL	2	PAINT PRESERVATION	❖	❖
8030 00 555 2878	BJQTC	THOMPSON WATER SEALER	THE THOMPSON COMPANY	GL	6	PMS	❖	❖
8030 00 F03 8962	BWVZY	GRADE SEALANT WHITE	SHERWIN-WILLIAMS COMPANY	TU	6	SEALING	❖	❖
8030 00 N02 8944	BNBNH	ONETIME SPACKLING	RED DEVIL, INCORPORATED	CN	6	REPAIRING DRYWALL	❖	❖
8030 00 N04 0506	BSGQZ	SEALANT CLEAR	SHERWIN-WILLIAMS COMPANY	TU	6	SEALING	❖	❖
8030 LL HAZ 6432	Z6432	POLYURETHANE SATIN FINISH (ALL SHADES)	MINWAX COMPANY	GL	6	PMS	❖	❖
8030 LL L00 1037	01037	CAULKING (ALL COLORS)	DAP, INCORPORATED	TU	6	SEALING	❖	❖
8040 00 266 7429	BHFNX	RUBBER CEMENT	AMERICAN WRITING INK CO., INC	BT	6	BONDING MATERIALS	❖	❖
8040 00 656 0929	60929	ACOUSTICAL TILE ADHESIVE	RAILRUBE, INCORPORATED	CN	6	Maintenance of TILE	❖	❖
8040 00 959 5658	95658	WHITE GLUE	CONROS CORPORATION	BT	6	GLUEING	❖	❖
8040 00 B01 0050	BBBDL	TILE ADHESIVE	ARMSTRONG WORLD INDUSTRIES	GL	6	MAINTENANCE	❖	❖
8040 LL HAZ 6119	Z6119	ELMER'S WEATHER TITE WOOD GLUE	ELMER PRODUCTS, INCORPORATED	TU	6	MAINTENANCE	❖	❖
8040 LL L00 1039	01039	S-750 RESILIENT TILE ADHESIVE	ARMSTRONG WORLD INDUSTRIES	GL	6	Maintenance of TILE	❖	❖
8520 00 082 2146	BQGLN	HAND CLEANER	MAKOOR PRODUCTS	LB	2	HYGIENE	❖	❖
8520 00 228 0598	BNTCK	TOILET SOAP	LHB INDUSTRIES	GL	4	CLEANING FLOORS	❖	❖
8520 00 270 0065	00065	SOAP, BORAX	VITA-ERB LIMITED	BX	6	CLEANING	❖	❖
8520 00 531 6484	BSRXY	URINAL CAKES	VITA-ERB LIMITED	BX	4	DISINFECTING	❖	❖
8520 01 415 2931	CKPFV	ANTIBACTERIAL CLEAN & SMOOTH	ECOLAB, INCORPORATED	GL	6	HYGIENE	❖	❖
9140 LL HAZ 5767	Z5767	UNLEADED REGULAR GASOLINE	PHILLIPS 66 COMPANY	GL	6	FUEL, ENGINE	❖	❖
9150 00 261 7899	BJPDC	OIL PENETRATING	GUARDSMAN PRODUCTS, INC	PT	1	PMS	❖	❖

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National Stock No.	MSDS #	Chemical of Noun Name	Manufacturer	Unit Issue	Auth. Qty	Process	Cost Center	Bldg.
9150 00 261 7899	BQKNY	PENETRATING OIL	OLYMPIC OIL, LTD	PT	6	PMS	❖	❖
9150 00 261 7899	17899	PENETRATING OIL	OME OIL, COMPANY, INCORPORATED	PT	6	PMS	❖	❖
9150 00 261 7899	BDPNX	PENETRATING OIL	OMNITECH INTERNATIONAL, INC	CN	6	PMS	❖	❖
9150 00 261 7899	BMQBB	OIL PENETRATING	UNI-KEM INTERNATIONAL, INC	PT	1	PMS	❖	❖
9150 00 N07 8792	CGGNT	OIL, 2-CYCLE	CHEVRON, INCORPORATED	BT	6	MAINTENANCE	❖	❖
9150 LL HAZ 5601	Z5601	SEWING MACHINE OIL	MARCO PRODUCTS, INCORPORATED	QT	6	MAINTENANCE OF SEWING MACHINES	NTC1062	220
9150 LL HAZ 6006	Z6006	NL PAR 22B - 100SEC	NEWMAN LUBRICANTS	TU	6	MAINTENANCE OF PAPER SHREDDER	❖	❖
9150 LL HAZ 6029	Z6029	MOBIL VELOCITE OIL NO. 6	MOBIL OIL CORPORATION	GL	6	LAUNDERING	NTC1062	220
9150 LL HAZ 6030	Z6030	MOBIL DTE 15M	MOBIL OIL CORPORATION	GL	6	LAUNDERING	NTC1062	220
9150 LL HAZ 6031	Z6031	MOBILGEAR 630	MOBIL OIL CORPORATION	GL	6	LAUNDERING	NTC1062	220
9150 LL HAZ 6032	Z6032	MOBIL DTE OIL HEAVY	MOBIL OIL CORPORATION	GL	6	LAUNDERING	NTC1062	220
9150 LL HAZ 6033	Z6033	SULLUBE	THE DOW CHEMICAL COMPANY	GL	6	LAUNDERING	NTC1062	220
9150 LL HAZ 6362	Z6362	PAPER SHREDDER OIL	ENTERPRISE OIL COMPANY	BT	6	MAINTENANCE	❖	❖

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C.3 MATERIAL SAFETY AND DATA SHEETS

MATERIAL SAFETY DATA SHEET

R. R. STREET & CO., INC.
625 ENTERPRISE DRIVE, OAK BROOK, IL 60521

24 Hour Emergency Phone (316) 524-5751

I - IDENTIFICATION

CHEMICAL NAME	CHEMICAL FORMULA	MOLECULAR WEIGHT
Tetrachloroethylene	C_2Cl_4	165.82

TRADE NAME
PerSec®

SYNONYMS	DOT IDENTIFICATION NO.
Perchloroethylene, Perc	UN 1897

II- PRODUCT AND COMPONENT DATA

COMPONENT(S) CHEMICAL NAME	CAS REGISTRY NO.	% (Approx)	ACGIH TLV-TWA
* Tetrachloroethylene	127-18-4	100	50 ppm

* Denotes chemical subject to reporting requirements of Section 313 of Title III of the 1986 Superfund Amendments and Reauthorization Act (SARA) and 40 CFR Part 372

III - PHYSICAL DATA

APPEARANCE AND ODOR Colorless, clear liquid; mildly sweet odor	SPECIFIC GRAVITY 1.62 @ 25/25°C
BOILING POINT 250°F (121.1°C)	VAPOR DENSITY IN AIR (Air = 1) 5.8
VAPOR PRESSURE 13 mm Hg @ 20°C	% VOLATILE, BY VOLUME 100
EVAPORATION RATE (ether = 1): 0.1	SOLUBILITY IN WATER 0.015 gm/100 gm @ 25°C

IV - REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID
Stable	Avoid contact with open flame, electric arcs, or other hot surfaces which can cause thermal decomposition.

INCOMPATIBILITY (Materials to avoid)

Strong oxidizers, barium, lithium

HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen chloride, phosgene, chlorine.

HAZARDOUS POLYMERIZATION

Will Not Occur

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V - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (Method used)	FLAMMABLE LIMITS IN AIR
None (TCC)	None

EXTINGUISHING AGENTS

N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS

Firefighters should wear self-contained, positive-pressure breathing apparatus and avoid skin contact.

VI - TOXICITY AND FIRST AID

EXPOSURE LIMITS (When exposure to this product and other chemicals is concurrent, the exposure limit must be defined in the workplace.)

ACGIH: 50 ppm TWA (8 hr) OSHA: 25 ppm TWA (8 hr)

(Odor threshold approximately 50 ppm; causes olfactory fatigue.)

Consumption of alcoholic beverages may increase potential for development of toxic effects resulting from exposure to this product.

Effects described in this section are believed not to occur if exposures are maintained at or below appropriate TLVs
Because of the wide variation in individual susceptibility, these exposure limits may not be applicable to all persons and those with medical conditions listed below

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Acute and chronic liver disease, rhythm disorders of the heart, and neuritis.

ACUTE TOXICITY Primary route(s) of exposure: ☒ Inhalation ☐ Skin Absorption ☐ Ingestion

Inhalation: Major potential route of exposure. 100 ppm for 7 hours causes mild irritation to eyes, nose, and throat; flushing of face and neck; headache, slurred speech, and drowsiness. 200 ppm for 1 hour causes the same symptoms, plus dizziness and lightheadedness. 600 ppm for 10 minutes causes sensation of numbness around mouth, dizziness, and incoordination; 2,000 ppm causes mild narcosis within 5 minutes. 5,000 ppm cannot generally be tolerated and causes vertigo, nausea, and mental confusion. Unconciousness or death can occur at extremely high concentrations or on prolonged exposures above 500 ppm.

Skin: Prolonged or repeated contact of liquid can cause irritation, defatting of skin, and dermatitis. Prolonged single exposure can result in progressively severe burning sensation and redness. Absorption through intact skin is possible if contact with liquid is prolonged.

Eyes: Liquid in eyes produces pain and irritation with mild temporary damage possible. Vapor can irritate eyes.

Ingestion: Single dose toxicity is moderate and causes severe gastrointestinal irritation with nausea, vomiting, stomach cramps, and diarrhea likely. If vomiting occurs, perchloroethylene can be aspirated into lungs, which can cause chemical pneumonia and systemic effects.

FIRST AID

Inhalation: Remove to fresh air. If breathing has stopped, administer artificial respiration. Call a physician.

Skin: Remove contaminated clothing and shoes. Wash exposed area thoroughly with soap and water for at least 15 minutes. Wash contaminated clothing before reuse.

Eyes: Flush eyes immediately with water for at least 15 minutes. If irritation persists, call a physician.

Ingestion: Do not induce vomiting. Contact physician or emergency medical facility immediately.
NOTE TO PHYSICIAN: Adrenalin should never be given to persons overexposed to perchloroethylene.

CHRONIC TOXICITY

The finding of chronic toxic effects in laboratory animals may indicate toxicity to humans. Overexposure should be avoided, failure to do so could result in injury, illness or even death. Perchloroethylene has caused liver and kidney toxic effects in chronically overexposed experimental animals.

Carcinogenicity: Three studies have been conducted to assess the carcinogenic potential of perchloroethylene in laboratory animals. In one study, rats and mice were exposed by gavage (force-fed) at levels of 500 and 1000 mg/kg/day. Increased incidence of liver tumors were observed in mice. The results of the rat study were inconclusive due to an excess in animal deaths. The second study involved rats exposed to concentrations up to 600 ppm via inhalation, six hours per day, 5 days per week for one year. The animals were observed until the time of death or until the 31st month and studies indicate no statistically significant increase in tumors. The significance of the second study has been questioned, since exposure lasted for only one year. A third study involved exposure of mice to 100 or 200 ppm and rats to 200 and 400 ppm for six hours per day, 5 days per week for 2 years. Increased incidence of liver tumors were observed in mice. In rats an increase in a rare kidney tumor was observed in the male rat, and both males and females had an increased incidence of mononuclear cell leukemia.

The International Agency for Research on Cancer (IARC) has concluded that there is sufficient evidence for the carcinogenicity of perchloroethylene to experimental animals, and inadequate evidence for the carcinogenicity of perchloroethylene to humans, resulting in a classification as a 2B animal carcinogen on the IARC list. The NTP has identified perchloroethylene as an animal carcinogen, but it is not on the OSHA or NTP lists as of June 30, 1989. The State of California has listed perchloroethylene under Proposition 65 as a chemical known to the state to cause cancer.

Epidemiologic studies have been inconclusive in determining whether perchloroethylene is associated with increased incidences of cancer in humans.

Reproductive Toxicity: Studies on mice, rats and rabbits have been conducted to evaluate the potential effects perchloroethylene may have on reproduction and offspring of laboratory animals. Perchloroethylene has been found to be embryotoxic and has caused delays in the development of fetuses. Perchloroethylene has not caused teratogenic (birth defect) effects in experimental animals.

VII – PERSONAL PROTECTION AND CONTROLS

RESPIRATORY PROTECTION

Where vapor concentration exceeds or is likely to exceed 25 ppm, an approved organic vapor type respirator is acceptable. Approved self-contained breathing apparatus or air line respirator, with full face piece, is required for vapor concentrations above 500 ppm and for spills and/or emergencies. Follow any applicable respirator use standards or regulations.

VENTILATION

Do not use in closed or confined space. Open doors and/or windows. Use ventilation to maintain exposure levels below 25 ppm (TWA).

SKIN PROTECTION

Wear solvent-resistant gloves such as Viton, polyvinyl alcohol, or equivalent. Solvent-resistant boots, apron, headgear and/or faceshield should be worn where splashing is a possibility.

EYE PROTECTION

Wear safety glasses. Contact lenses should not be worn. Chemical goggles and/or face shields should be worn where splashing is a possibility.

HYGIENE

Avoid contact with skin and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands prior to eating, drinking, or using restroom. Any clothing or shoes which become contaminated with perchloroethylene should be removed immediately and thoroughly laundered before wearing again.

OTHER CONTROL MEASURES

To determine exposure level(s), monitoring should be performed regularly. Safety shower and eyewash station should be available.

NOTE: Protective equipment and clothing should be selected, used, and maintained according to applicable standards and regulations. For further information, contact the clothing or equipment manufacturer or the Vulcan Chemicals Technical Service Department.

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VIII - STORAGE AND HANDLING PRECAUTIONS

Follow protective controls set forth in Section VII when handling this product.

Store in labeled, sealed containers in a cool, dry, well-ventilated area. Prevent water or moist air from entering storage tanks or containers. Do not cut or weld on empty or full drums. Aluminum equipment should not be used for storage and/or transfer.

Vapors are heavier than air and will collect in low areas. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276. Do not remove or deface label.
Do not reuse drum without recycling or reconditioning in accordance with any applicable federal, state or local laws.

IX - SPILL, LEAK AND DISPOSAL PRACTICES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Evacuate the area, ventilate, and avoid breathing vapors. Dike area to contain spill. Clean up area (wear protective equipment - refer to Section VII) by mopping or with absorbent material and transfer to closed containers for disposal. Avoid contamination of ground and surface waters. Do not flush to sewer.

If spill occurs indoors, turn off heating and/or air conditioning systems, to prevent vapors from contaminating entire building.

WASTE DISPOSAL METHOD

Recovered liquids may be sent to a licensed reclaimer or incineration facility. Contaminated material must be disposed of in a permitted waste management facility. Consult federal, state, or local disposal authorities for approved procedures.

X - TRANSPORTATION

DOT HAZARD CLASSIFICATION

None by land or water transportation when containers are less than 1 lb each. ORM-A when containers are more than 1 lb each or when transported by air in any size container.

PLACARD REQUIRED

None

LABEL REQUIRED

Label as required by OSHA Hazard Communication Standard, and any applicable state and local regulations. Use Harmful label when transported by air.

Medical Emergencies

Call collect 24 hours a day for emergency toxicological information 415/821-5338

Other Emergency Information

Call 316/524-5751 (24 hours)

For any other information contact:

Vulcan Chemicals
Technical Service Department
P.O. Box 7689
Birmingham, AL 35253-0689
205/877-3459
8 AM to 5 PM Central Time
Monday Through Friday

DATE OF PREPARATION: July 1, 1989

NOTICE: Vulcan Chemicals believes that the information contained on this Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all-inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulation, rules or insurance requirements.

NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE IS MADE.

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910. 1200. Standard must be consulted for specific requirements.

QUICK IDENTIFIER
Common Name: (used on label and list)

CAL STRIP/PURPLE MAGIC

SECTION 1 -

Manufacturer's Name: Caled Signal Chemical

Address: 26 Hanes Drive

Emergency Telephone No.: 1-(201)696-7575

City, State, and ZIP: Wayne,N.J. 07470

Other Information Calls: N/D

Signature of Person Responsible for Preparation (Optional):

Date Prepared: 10/85

SECTION 2 – HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	CAS NO
Titanium sulfate (Sulfuric acid,titanium salt)	N/E	1Mg/M^3	N/D	20-25	13

Corrosive

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: 210 (F)

Specific Gravity (H,O=1): 1.40

Vapor Pressure (mm Hg): N/A

Vapor Density (Air = 1): N/A

Solubility in Water: Complete

Reactivity in Water: N/D

Appearance and Odor: Purple liquid, acid odor

Melting Point: N/A

SECTION 4 – FIRE & EXPLOSION DATA

Flash Point: NONE F. C.

Method Used: Tag closed cup

Flammable Limits in Air % by Volume: LEL Lower: N/A UEL Upper: N/A

Auto-Ignition Temperature: N/D

Extinguisher Media: Water/Fog

Special Fire Fighting Procedures: Wear full protective clothing, and self-contained breathing apparatus. Use water to cool containers.

Unusual Fire and Explosion Hazards: Material is acidic and may react with metals to form hydroger

N/A = Not Applicable N/D = No Data Available N/E = Not Established

SECTION 5 – PHYSICAL HAZARDS (REACTIVITY DATA)

Stability: Unstable [ ] Stable [x] — Conditions to Avoid: Oxidants

Incompatability (Materials to Avoid): Alkalais,oxidizing agents,many metals.

Hazardous Decomposition Products: Thermal: Sulfuric acid,sulfur oxides may form.

Hazardous Polymerization: May Occur [ ] Will Not Occur [x] — Conditions to Avoid: None Known

SECTION 6 – HEALTH HAZARDS

1. Acute: N/D

2. Chronic: N/D

Signs and Symptoms of Exposure: Skin/Eyes: Will cause chemical burns. Inhalation of mists: Will cause irritation. Ingestion: Will cause chemical burns.

Medical Conditions Generally Aggravated by Exposure: N/D

Chemical Listed as Carcinogen or Potential Carcinogen — National Toxicology Program: Yes [ ] No [ ] N/D — I.A.R.C. Monographs: Yes [ ] No [ ] N/D — OSHA: Yes [ ] No [ ] N/D

Emergency and First Aid Procedures: Skin/Eyes: Remove contaminated clothing. Flush with water.Inhala Remove to fresh air. Ingestion: Do not induce vomiting. Dilute with water o SEEK MEDICAL ATTENTIO

ROUTES OF ENTRY

1. Inhalation: Initial
2. Eyes: If splashed.
3. Skin: Primary
4. Ingestion: Unlikely

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage: Store in closed containers. Avoid contact with alkalies or oxi Avoid contact with skin/eyes and inhalation of vapors.

Other Precautions: None

Steps to be Taken in Case Material is Released or Spilled: Neutralize with soda ash or lime. Absorb on inert material and place in container.

Waste Disposal Methods (Consult federal, state, and local regulations): Land fill of neutralized acids or in accordance with federal,state, and local laws.

SECTION 8 – SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type): Cannister mask for acid mists.

Ventilation — Local Exhaust: Preferable — Mechanical (General): Recommended — Special: N/D — Other: N/A

Protective Gloves: Neoprene or vinyl — Eye Protection: Safety goggles or face shield

Other Protective Clothing or Equipment: Eye bath and safety shower.

Work/Hygienic Practices: Good industial hygeine should be practiced.

IMPORTANT

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910. 1200. Standard must be consulted for specific requirements.

QUICK IDENTIFIER
Common Name: (used on label and list)

ELIMININK ---ISOPROPYL ESTER

4

SECTION I -

Manufacturer's Name	Newhouse Specialty Co.,Inc.		
Address	2619 S. Oak St.	Emergency Telephone No.	1-(714)557-9044
City, State, and ZIP	Sanata Ana,California 92707	Other Information Calls	N/D
Signature of Person Responsible for Preparation (Optional)		Date Prepared	N/D

SECTION 2 – HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	C N
Diethylene glycol ethyl ether	N/E	50ppm	N/E	*	111-7
Isopropyl Acetate	N/E	250ppm	N/E	*	108-2
Chemical #3	N/E	N/E	N/E	*	N/

* Above 1% concentration.

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	253.2 (F)	Specific Gravity (H,O=1)	0.8289	Vapor Pressure (mm Hg)	0.96
Vapor Density (Air = 1)	4.31				
Solubility in Water	Complete	Reactivity in Water	N/D		
Appearance and Odor	Clear pale yellow liquid. Musty, sweet,fruity odor.	Melting Point	N/D		

SECTION 4 – FIRE & EXPLOSION DATA

Flash Point 73 F. C.	Method Used Tag closed cup	Flammable Limits in Air % by Volume	LEL Lower 1.3	UEL Upper 8.5	
Auto-Ignition Temperature N/D	Extinguisher Media Alcohol foam;Dry chemical;Water fog:Carbon dioxide				

Special Fire Fighting Procedures: Use impervious gloves,face shield,full protective clothing & self-conta organic vapor respirator in close proximity to fire.

Unusual Fire and Explosion Hazards: In thermal decomposition, possible oxides of nitrogen and sulfur.

N/A = Not Applicable N/D = No Data Available N/E = Not Established

SECTION 5 – PHYSICAL HAZARDS (REACTIVITY DATA)

Stability: Unstable [ ] Stable [X] — Conditions to Avoid: Avoid heat,fire and sparks

Incompatability (Materials to Avoid): Avoid contamination with strong alkalies,acids,or oxidizing agents.

Hazardous Decomposition Products: Possible oxides of nitrogen and sulfur

Hazardous Polymerization: May Occur [ ] Will Not Occur [X] — Conditions to Avoid: None

SECTION 6 – HEALTH HAZARDS

1. Acute / 2. Chronic: Headache,Nausea,vomiting, repeated skin contact can cause chapping.

Signs and Symptoms of Exposure: Skin: Irritation,chapping. Inhalation: Headache,nausea

Medical Conditions Generally Aggravated by Exposure: None noted

Chemical Listed as Carcinogen or Potential Carcinogen: N/D — National Toxicology Program: Yes [ ] No [ ] N/D — I.A.R.C. Monographs: Yes [ ] No [ ] N/D — OSHA: Yes [ ] No [ ] N/D

Emergency and First Aid Procedures: Skin/Eyes:Flush affected areas with water.Inhalation:Remove to fresh air.

Ingestion:Induce vomiting. .SEEK MEDICAL ATTENTION

ROUTES OF ENTRY

1. Inhalation	Secondary
2. Eyes	Unlikely
3. Skin	Primary
4. Ingestion	Unlikely

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage: Store away from heat,sparks and open flames.

Other Precautions: Practice normal care and caution as outlined in previous sections

Steps to be Taken in Case Material is Released or Spilled: Eliminate all sources of ignition. Using protective gear, remove mat using absorbants with rubber or plastic scoop.

Waste Disposal Methods (Consult federal, state, and local regulations): Incinerate in accordance with all applicable federal,st and local laws regulating wastes.

SECTION 8 – SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type): None normally needed.

Ventilation: Local Exhaust: Adequate — Mechanical (General): N/D — Special: N/A — Other: N/A

Protective Gloves: None needed in normal use — Eye Protection: Face shield if splash hazard exists.

Other Protective Clothing or Equipment: Use gloves in very prolonged use. Air-supplied mask in small unventilate

Work/Hygienic Practices: Practice good industrial hygiene.

IMPORTANT

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.

Laidlaw Corporation
1212 E. 5th Street
Metropolis, IL 62960

(5)

Date Signed: 6-14-94 Transportation: Chemtrec

Prepared By: John T. Beckman Emergency: 1-800-424-9300

MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION

PRODUCT NAME: Volatile Dry Spotter (V.D.S.)

CHEMICAL NAME: Spot and stain remover

CAS NUMBER: MIXTURE

EMERGENCY TELEPHONE NUMBER: (618) 524-9394

II. COMPONENTS AND HAZARD INFORMATION

COMPONENT	CAS NO. OF COMPONENT	TLV OF COMPONENT	OSHA PEL	APPROXIMATE CONCENTRATION
Tricholorethylene	79-01-6	50 ppm	50 ppm	98.0%

This product contains Tricholorethylene. which is subject to the reporting requirements of SARA III.

D.O.T. Hazard Classification: Tricholorethylene. 6.1. UN 1710. III

Hazardous Materials Identification System (HMIS)

Health	Flammability	Reactivity	BASIS
3	0	1	Recommended by Laidlaw

TLV for Total Product
50 ppm

BASIS
Calculated TLV REF ACGIH

III. PHYSICAL DATA

Boiling Point 188°F

Vapor Pressure 58mm Hg at 20°C

Specific Gravity 1.450

Vapor Density 4.5 (Air = 1)

Percent Volatiles 100.0%

Evaporation Rate 0.3 (Ether = 1)

IV. FIRE AND EXPLOSION DATA

Flash Point (°F TCC) None

Extinguishing Media Water. fog. dry chemical or carbon dioxide.

Special Firefighting Procedures Firefighters should wear positive pressure self-contained breathing apparatus.

Unusual Fire & Explosion Hazards Vapors concentrated in confined area can be ignited upon contact with a high energy source.

National Fire Protection Association (NFPA) - Hazard Identification

Health	Flammability	Reactivity	Basis
2	1	0	Recommended by Laidlaw

V. HEALTH HAZARD DATA

Effects of Overexposure:

Eyes: Liquid can cause pain and slight temporary injury to eyes. Vapors can irritate eyes.

Skin: Prolonged or repeated exposure may cause skin irritation and defatting.

Breathing: Major potential route of exposure. May cause headaches. nausea. vomiting. dizziness. vertigo. unconsciousness and death.

Swallowing: Can cause gastrointestinal irritation. vomiting. nausea. Aspiration of material into lungs can be fatal.

irst Aid Procedures:

Swallowing: Do not induce vomiting. Get medical attention.

Skin: Wash with soap and water.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult.

Eyes: Flush with water for at least 15 minutes. Get medical attention if irritation persists.

Health studies have shown that health risks vary from person to person. As a precaution exposure to liquids, vapors, misty fumes or dust should be minimized.

VI. REACTIVITY DATA

Hazardous Polymerization: Will not occur.
Stability: Avoid open flames or other high temperature sources.
Incompatibility: Water -- long term can deplete stabilizers, producing acids.
Hazardous Decomposition Products: Hydrogen chloride, phosgene and chlorine at high temperatures.

VII. SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Provide maximum ventilation. Soak up material using absorbent material. Dispose of in accordance with local, state and federal regulations. Keep out of water supply and sewage system.

VIII. PROTECTION AND PRECAUTIONS

Respiratory Protection: Approved organic vapor respirator required in absence of proper environmental control.

Ventilation: Provide sufficient ventilation to maintain exposure below TLV.
Protective Gloves: Use gloves made of viton, neoprene or polyvinyl alcohol.
Eye Protection: Chemical splash goggles.
Other Protective Equipment: Safety shower, eye bath and washing facilities should be available.

IX. PRECAUTIONS OR OTHER COMMENTS

Precautions to be taken in handling and storing: Maintain good housekeeping. Avoid contact with eyes. Wash thoroughly after handling. Use with adequate ventilation.

The information and recommendations accumulated herein are to the best of Laidlaw's knowledge and belief, accurate and reliable as of the date issued. Laidlaw does not warrant or guarantee their accuracy or reliability, and shall not be liable for any loss or damage arising out of the use thereof.

HMIS and NFPA recommended ratings are based upon the criteria supplied by the developers of these rating systems together with Laidlaw's interpretation of the available data.

Laidlaw Corporation
1212 E. 5th Street
Metropolis, IL 62960

Date Signed: 2-1-95

Prepared By: A. Boykin & John T. Beckman

Transportation: Chemtrec

Emergency: 1-800-424-9300

MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION

PRODUCT NAME: Protein Spotter

CHEMICAL NAME: Albuminous Spot and Stain Remover

CAS NUMBER: MIXTURE

EMERGENCY TELEPHONE NUMBER: (618) 524-9394

II. COMPONENTS AND HAZARD INFORMATION

COMPONENT	CAS NO. OF COMPONENT	TLV OF COMPONENT	OSHA PEL	APPROXIMATE CONCENTRATION
None under 29CFR 1910.1200, NTP, ACGIH, NFPA, IARC				

D.O.T. Hazard Classification: Not applicable.

Hazardous Materials Identification System (HMIS)

Health	Flammability	Reactivity	BASIS
1	0	0	Recommended by Laidlaw

TLV for Total Product: None established

BASIS: Calculated TLV REF ACGIH

III. PHYSICAL DATA

Boiling Point 214°F.

Vapor Density Not determined.

Vapor Pressure Not determined.

Percent Volatiles 78.0%.

Specific Gravity 1.0200.

Evaporation Rate Not determined.

IV. FIRE AND EXPLOSION DATA

Flash Point (°F TCC) Not applicable.

Extinguishing Media Not applicable.

Special Firefighting Procedures None.

Unusual Fire & Explosion Hazards None.

National Fire Protection Association (NFPA) - Hazard Identification

Health	Flammability	Reactivity	Basis
1	0	0	Recommended by Laidlaw

V. HEALTH HAZARD DATA

Effects of Overexposure:

Eyes: Mild transient irritant.

Skin: May cause minor skin irritation on prolonged contact.

Breathing: None.

Swallowing: Can cause diarrhea, nausea and gastrointestinal irritation.

First Aid Procedures:

Swallowing: For ingestion of large amount, empty stomach and consult physician.

Skin: Wash with soap and warm water.

Inhalation: Remove individual to fresh air.

Eyes: Rinse from eyes with cool water for at least 15 minutes. If irritation persists, see a doctor.

Health studies have shown that health risks vary from person to person. As a precaution exposure to liquids, vapors, misty fumes or dust should be minimized.

VI. REACTIVITY DATA

Hazardous Polymerization: Cannot occur.
Stability: Stable.
Incompatibility: Not applicable.
Hazardous Decomposition Products: None.

VII. SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Flush with water.

VIII. PROTECTION AND PRECAUTIONS

Respiratory Protection: None required.

Ventilation: Local exhaust ventilation recommended.
Protective Gloves: Not necessary.
Eye Protection: Splash goggles if eye contact may occur.
Other Protective Equipment: Not necessary.

IX. PRECAUTIONS OR OTHER COMMENTS

Precautions to be taken in handling and storing: Maintain good housekeeping. Avoid contact with eyes. Wash thoroughly after handling. Use with adequate ventilation.

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HMIS and NFPA recommended ratings are based upon the criteria supplied by the developers of these rating systems together with Laidlaw's interpretation of the available data.

Laidlaw Corporation
1212 E. 5th Street
Metropolis, IL 62960

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Date Signed: 2-1-95 Transportation: Chemtrec

Prepared By: A. Boykin & John T. Beckman Emergency: 1-800-424-9300

MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION

PRODUCT NAME: Silk Prespotter

CHEMICAL NAME: Spot and stain remover

CAS NUMBER: MIXTURE

EMERGENCY TELEPHONE NUMBER: (618) 524-9394

II. COMPONENTS AND HAZARD INFORMATION

COMPONENT	CAS NO. OF COMPONENT	TLV OF COMPONENT	OSHA PEL	APPROXIMATE CONCENTRATION
Perchloroethylene *	127-18-4	50 ppm	25 ppm	>75.0%
Pale Oil	64741-89-5	5mg/m^3	5mg/m^3	5.0%

* IDENTIFIED AS A CARCINOGEN BY NTP

This product contains Perchloroethylene, which is subject to the reporting requirements of SARA III

D.O.T. Hazard Classification: Tetrachloroethylene, 6.1, UN 1897, III

Hazardous Materials Identification System (HMIS)

Health	Flammability	Reactivity	BASIS
1	0	1	Recommended by Laidlaw

TLV for Total Product 50 ppm — BASIS: Calculated TLV REF ACGIH

III. PHYSICAL DATA

Boiling Point 215°F

Vapor Density Not determined

Vapor Pressure Not determined

Percent Volatiles 99.0%

Specific Gravity 1.5230

Evaporation Rate Not determined

IV. FIRE AND EXPLOSION DATA

Flash Point (°F TCC) Not applicable

Extinguishing Media Not applicable.

Special Firefighting Procedures As appropriate for surrounding fire.

Unusual Fire & Explosion Hazards None known.

National Fire Protection Association (NFPA) - Hazard Identification

Health	Flammability	Reactivity	Basis
1	0	1	Recommended by Laidlaw

V. HEALTH HAZARD DATA

Effects of Overexposure:

Eyes: Can cause severe irritation, redness, tearing, blurred vision.

Skin: Prolonged or repeated contact may cause moderate irritation.

Breathing: Excessive inhalation of vapors may cause nasal and respiratory irritation.

Swallowing: Can cause gastrointestinal irritation, vomiting, nausea and diarrhea. Aspiration of material into lungs can be fatal.

First Aid Procedures:

Swallowing: Do not induce vomiting. Get medical attention.

Skin: Wash exposed area with soap and water.

Inhalation: Remove to fresh air; if breathing is difficult administer oxygen.

Eyes: Flush with water for at least 15 minutes. If irritation persists, consult a physician.

Health studies have shown that health risks vary from person to person. As a precaution exposure to liquids, vapors, misty fumes or dust should be minimized.

VI. REACTIVITY DATA

Hazardous Polymerization: Cannot occur.
Stability: Stable
Incompatibility: Avoid strong oxidizing agents.
Hazardous Decomposition Products: May form toxic hydrocarbons at high temperatures.

VII. SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Absorb on paper or other absorbent material and dispose of in accordance with local, state and federal regulations.Keep out of water supply and sewage systems. Dispose of in a permitted hazardous waste management facility.

VIII. PROTECTION AND PRECAUTIONS

Respiratory Protection: Use approved organic vapor respirator if exposure may or does exceed TLV limit.

Ventilation: Provide sufficient ventilation to maintain exposure below TLV.
Protective Gloves: Not necessary.
Eye Protection: Splash goggles if eye contact is likely to occur.
Other Protective Equipment: None.

IX. PRECAUTIONS OR OTHER COMMENTS

Precautions to be taken in handling and storing: Maintain good housekeeping. Avoid contact with eyes. Wash thoroughly after handling. Use with adequate ventilation.

The information and recommendations accumulated herein are to the best of Laidlaw's knowledge and belief, accurate and reliable as of the date issued. Laidlaw does not warrant or guarantee their accuracy or reliability, and shall not be liable for any loss or damage arising out of the use thereof.

HMIS and NFPA recommended ratings are based upon the criteria supplied by the developers of these rating systems together with Laidlaw's interpretation of the available data.

Laidlaw Corporation
1212 E. 5th Street
Metropolis, IL 62960

12

Date Signed: 2-1-95 Transportation: Chemtrec

Prepared By: A. Boykin & John T. Beckman Emergency: 1-800-424-9300

MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION

PRODUCT NAME: Silk Sheen

CHEMICAL NAME: Hydrocarbon distillates

CAS NUMBER: MIXTURE

EMERGENCY TELEPHONE NUMBER: (618) 524-9394

II. COMPONENTS AND HAZARD INFORMATION

COMPONENT	CAS NO. OF COMPONENT	TLV OF COMPONENT	OSHA PEL	APPROXIMATE CONCENTRATION
Shell Solvent 71	64741-65-7	Not established	N.E.	25.0%
Pale Oil	64741-89-5	5mg/m^3	5mg/m^3	5.0%
Perchloroethylene *	127-18-4	50 ppm	25 ppm	65.0%

* IDENTIFIED AS A CARCINOGEN BY NTP

This product contains Perchloroethylene which is subject to the reporting requirements of SARA III

D.O.T. Hazard Classification: Combustible Liquid NOS. (Petroleum Distillate), NA 1993, III

Hazardous Materials Identification System (HMIS)

Health	Flammability	Reactivity	BASIS
1	1	1	Recommended by Laidlaw

TLV for Total Product
50 ppm

BASIS
Calculated TLV REF ACGIH

III. PHYSICAL DATA

Boiling Point 250°F Vapor Density Not determined

Vapor Pressure Not determined Percent Volatiles 85.0%

Specific Gravity 1.1610 Evaporation Rate Not determined

IV. FIRE AND EXPLOSION DATA

Flash Point (°F TCC) 259°F

Extinguishing Media Regular foam or dry chemical.

Special Firefighting Procedures Self contained breathing apparatus operated in positive pressure mode.

Unusual Fire & Explosion Hazards Vapors may travel along floor and ignited by energy source at point from handling point.

National Fire Protection Association (NFPA) - Hazard Identification

Health	Flammability	Reactivity	Basis
1	1	1	Recommended by Laidlaw

V. HEALTH HAZARD DATA

Effects of Overexposure:

Eyes: Can cause severe irritation, redness, tearing, blurred vision.

Skin: Prolonged or repeated contact may cause moderate irritation.

Breathing: Excessive inhalation of vapors may cause nasal and respiratory irritation.

Swallowing: Can cause gastrointestinal irritation, vomiting, nausea and diarrhea. Aspiration of material into lungs can be fatal.

First Aid Procedures:

Swallowing: Do not induce vomiting. Get medical attention.

Skin: Wash exposed area with soap and water.

Inhalation: Remove to fresh air: if breathing is difficult administer oxygen.

Eyes: Flush with water for at least 15 minutes. If irritation persists, consult a physician.

Health studies have shown that health risks vary from person to person. As a precaution exposure to liquids, vapors, misty fumes or dust should be minimized.

VI. REACTIVITY DATA

Hazardous Polymerization: Cannot occur.
Stability: Stable
Incompatibility: Avoid strong oxidizing agents.
Hazardous Decomposition Products: May form toxic hydrocarbons at high temperatures.

VII. SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Absorb on paper or other absorbent material and dispose of in accordance with local, state and federal regulations. Keep out of water supply. Dispose of in a permitted hazardous waste management facility

VIII. PROTECTION AND PRECAUTIONS

Respiratory Protection: Use approved organic vapor respirator if exposure may or does exceed TLV limit.

Ventilation: Provide sufficient ventilation to maintain exposure below TLV.
Protective Gloves: Not necessary.
Eye Protection: Splash goggles if eye contact is likely to occur.
Other Protective Equipment: None.

IX. PRECAUTIONS OR OTHER COMMENTS

Precautions to be taken in handling and storing: Maintain good housekeeping. Avoid contact with eyes. Wash thoroughly after handling. Use with adequate ventilation.

The information and recommendations accumulated herein are to the best of Laidlaw's knowledge and belief, accurate and reliable as of the date issued. Laidlaw does not warrant or guarantee their accuracy or reliability, and shall not be liable for any loss or damage arising out of the use thereof.

HMIS and NFPA recommended ratings are based upon the criteria supplied by the developers of these rating systems together with Laidlaw's interpretation of the available data.

MATERIAL SAFETY DATA SHEET

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

IDENTITY (As shown on label or package) COMMERCIAL FABRIC SOFTENER/SANITIZER	PART NO. IF APPLICABLE

SECTION I

Manufacturer's Name CHEM-X	Emergency Phone No. 800-535-5053 (Infotrac
Address (Number, Street, City, State, and Zip Code) 800 E. Northwest Hwy., Suite 700	Signature of Preparer: (Optional)
Palatine, IL 60067	Manufacturer's Phone No. for Information 708-934-2555
	Date MSDS was prepared 9/28/92

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION.

All Health Hazards which comprise 1 % or greater of the composition and all carcinogens if 0.1% of the composition or greater

Hazardous Components (Specific Chemical Identity and Common Name(s), if any.	CAS NO.	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	% (OPTIONAL)

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point 212°F	Specific Gravity (H_2O=1) 1.0	Melting Point
Vapor Pressure (mm Hg.) N/A	Vapor Density (AIR=1) Less than 1	Evaporation Rate (Butyl Acetate=1) Less than 1
Solubility in Water Complete	% Volatile by Volume	Other (If any)
Appearance and Odor Semi-clear; pleasantly scented		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) None	Flammable Limits	LEL not applic.	UEL not applic.
Extinguishing Media None			
Special Fire Fighting Procedures Non-flammable; use standard fire fighting procedure. Recommend self contained breathing apparatus.			
Unusual Fire and Explosion Hazards none			
Hazardous products formed by fire or thermal decomposition None			
Explosive Limits (% by volume in air) N/A			

SECTION V - OPTIONAL HAZARD RATINGS IDENTIFICATION

Hazardous Materials Identification System (HMIS)	National Fire Protection Association (NFPA)
HEALTH 1 REACTIVITY 0	FIRE 0 REACTIVITY 0
FLAMMABILITY 0 PERSONAL PROTECTION B	HEALTH 0 SPECIAL HAZARDS None

SoR+ Pg 2

ECTION VI - REACTIVITY and STABILITY DATA

TABILITY	Unstable		Conditions to avoid
	Stable	X	None

ICOMPATIBILITY(Materials to Avoid) None

HAZARDOUS DECOMPOSITION BY PRODUCTS None

AZARDOUS POLYMERIZATION	May Occur		Conditions to avoid
	Will not Occur	X	None

ECTION VII - HEALTH HAZARD DATA

..outes of entry: Inhalation? Yes Skin? Yes Ingestion? Yes Eyes? Yes

ealth azards: Acute / Chronic — EYES: May cause discomfort. SKIN: Irritation may exist with prolonged exposure. INGESTION: May cause gastrointestinal discomfort.

'arcinogenicity: None NTP? No IARC Monographs? No OSHA Regulated? No

Signs and Symptoms I Exposure: Nausea and irritation.

Medical Conditions Generally 'ggravated by Exposure: Unknown

.mergency and First Aid Procedures: External:Flush with water then wash affected area with mild soap. EYES: Flush with water for at least 15 minutes. INTERNAL: Drink large quantities of water, Follow with Milk of Magnesia. Do not induce vomiting. Seek medical attention at once.

ECTION VIII - PRECAUTIONS FOR SAFE HANDLING and USE

eps to be Taken n Case Material s Released r Spilled: Flush with water; may be picked up mechanically or with an absorbant material. Avoid breathing mist. Do not get on skin, eyes or clothing.

Waste Disposal Method: Dispose of in accordance with federal, state & local regulations.

recautions to be In Handling Storage: Keep out of reach of children. Store in dry cool area. Keep from freezing. Keep container closed. Wash after using. Store in ventilated place.

ther Precautions: Read entire label before using.

ECTION IX - CONTROL MEASURES

espiratory Protection (specify Type)	None required under normal use but avoid inhaling.	Protective Gloves	Rubber/plastic
ntilation	Local Exhaust: Maintain adequate ventilation	Special	N/A
	Mechanical (General): Maintain adequate ventilation	Other	N/A
ye Protection	Safety glasses	Other Protective Clothing or Equipment	Eye bath/splash goggles
ork/Hygienic Practices			

ECTION X - TRANSPORTATION INFORMATION (optional)

O.T. Proper hipping Name	None	D.O.T. Hazard Class	none
s "Consumer Commodity ORM-D", Is the qualifying Chemical?			
O.T. I.D. NO. (UN or NA)		Hazard Label or Marking Required on Shipper Ctn.	
TA Proper Shipping Name		IATA Hazard Class	IMO NO.

FABRIC SOFTENER

FABRIC CONDITIONER & SOFTENER CONCENTRATE

FOR USE IN INSTITUTIONAL AND INDUSTRIAL LAUNDRY FACILITIES

FOR INSTITUTIONAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

CONTAINS: QUATERNARY AGENTS

CAUTION:

HANDLE WITH EXTREME CAUTION. SEVER SKIN AND EYE IRRITANT. HARMFUL OR FATAL IF SWALLOWED. WEARING SKIN AND EYE PROTECTION RECOMMENDED . DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. THIS PRODUCT IS INTENDED FOR INDUSTRIAL USE ONLY, BY TRAINED PROFESSIONAL PERSONNEL. MANUFACTURE / DISTRIBUTOR WILL NOT BE RESPONSIBLE FOR ANY LOSS, INJURY, OR DAMAGE, IF USED IN ANY MANNER NOT CONSISTENT WITH LABEL DIRECTIONS OR IF MSDS PRECAUTIONS ARE NOT OBSERVED. READ AND UNDERSTAND THE MSDS SHEET ON THIS PRODUCT BEFORE USE.

FIRST AID:

IN CASE OF ACCIDENTAL INGESTION, DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION IMMEDIATELY.. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IN CASE OF EYE OR SKIN CONTACT, WASH IMMEDIATELY WITH MUCH COLD WATER, IN ANY CASE GET MEDICAL ATTENTION IMMEDIATELY.

MANUFACTURED IN U.S.A.

CHEM-X-CORP.

P.O. BOX 7165, BUFFALO GROVE, IL 60089

FOR REORDER CALL: (847) 934-2555

FOR CHEMICAL EMERGENCIES CALL INFOTRAC : 1-800-535-5053

MANUFACTURER'S MATERIAL SAFETY DATA SHEET
TECH HELP--800-862-8883 MON-FRI 8-5 PM EST

DIVERCID 6F
MEDICAL(COLLECT) 303-592-102
CHEMTREC 1-800-424-930

NAME

MANUFACTURER: AMERICLEAN SYSTEMS INC.
DIVERSEY LEVER, INC.
46701 COMMERCE CENTER DR
PLYMOUTH, MICHIGAN 48170
PREPARED 06/10/96

EMERGENCY PHONE NO. 1-800-831-9889
REFERENCE

ABBREVIATIONS C-CEILING MP-MAXIMUM PEAK N/A-NOT APPLICABLE N/K-NOT KNOWN P-POTENTIAL PEL-PERMISSIBLE EXPOSURE LIMIT PM-PERMISSIBLE MARTENS S-SKIN ST-SHORT TERM TLV-THRESHOLD LIMIT VALUE TWA-TIME WEIGHT AVERAGE

SECTION-1 IDENTITY

COMMON NAME (Used on Label): DIVERCID 6F — CODE: 00223
CHEMICAL FAMILY: LAUNDRY SOUR

SECTION-2 HAZARDOUS INGREDIENTS (ONLY ITEMS LISTED ARE HAZARDOUS BY TITLE III SARA)

PRINCIPAL HAZARDOUS COMPONENT(S) CHEMICAL & COMMON NAME	%	EXPOSURE LIMITS (TWA 8 HOURS UNLESS OTHERWISE SPECIFIED)	UNITS
AMMONIUM HYDROGEN FLUORIDE (1341-49-7)	15	PEL 2.5; TLV 2.5	PPM

SECTION-3 PHYSICAL & CHEMICAL CHARACTERISTICS (FIRE & EXPLOSION DATA)

BOILING POINT: 214 °F — SPECIFIC GRAVITY: 1.043 g/cc — VAPOR PRESSURE: 17.5 mmHg @ 20 °C — VOLATILE BY VOLUME: 85
PH: N/A — VAPOR DENSITY (AIR): N/A — EVAPORATION RATE (BUTYL ACETATE=1): >1 — SOLUBILITY IN WATER: 100 % — SOLUBILITY / VOLATILE: NONE
APPEARANCE & ODOR: PURPLE CLEAR LIQUID; ACIDIC ODOR
FLASH POINT: NONE °F — FLAME EXTENSION: N/A in — FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER NONE, UPPER NONE — AUTO IGNITION TEMPERATURE: N/A °F
EXTINGUISHER MEDIA: WATER, FOAM, CO2, DRY CHEMICALS
FIREFIGHTING SPECIAL PROCEDURES: ACIDIC SOLUTION - ATTACKS REACTIVE METALS. WEAR FULL PROTECTIVE GEAR TO PREVENT SKIN CONTACT AND SCBA.
UNUSUAL FIRE AND EXPLOSION HAZARDS: HEAT OR FIRE MAY RELEASE VAPORS OF HYDROFLUORIC ACID.

SECTION-4 PHYSICAL HAZARDS

STABILITY: TO 200 F — POLYMERIZATION: NONE
INCOMPATIBLE WITH: STRONG ALKALIS; MILD METALS, CHLORINATED PRODUCTS.
DECOMPOSITION PRODUCTS: ABOVE 200 DEGREES F MAY RELEASE TOXIC VAPORS OF HYDROFLUORIC ACID.

SECTION-5 HEALTH HAZARDS

PRIMARY ROUTES OF ENTRY: INHALATION YES, SKIN YES, INGESTION YES
1. ACUTE SIGNS AND SYMPTOMS: STRONGLY IRRITATING OR CORROSIVE TO SKIN, EYES, AND RESPIRATORY TRACT. MAY BE FATAL IF SWALLOWED. BURNS MAY NOT BE IMMEDIATELY APPARENT. FLUORIDE POISONING CAN RESULT FROM LARGE DOES; WHICH MAY AFFECT CENTRAL NERVOUS SYSTEM AND KIDNEYS.
2. CHRONIC SIGNS AND SYMPTOMS OF OVEREXPOSURE: DECALCIFICATION OF BONES AND/OR MOTTLING OF TEETH AFTER PROLONGED EXPOSURE.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: SENSITIVE EYES, SKIN, IMPAIRED PULMONARY FUNCTION.
LISTED CARCINOGEN: NONE — NTP: NO — IARC: NO — OSHA: N
EMERGENCY AND FIRST AID PROCEDURES
1. INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION.
2. EYES: FLUSH THOROUGHLY WITH FRESH WATER, FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.
3. SKIN: FLUSH WITH FRESH WATER. REMOVE CONTAMINATED CLOTHES AND SHOES. WASH AROUND & UNDER FINGERNAILS & EXPOSED SKIN WITH SOAP & WATER.
4. INGESTION: GIVE WATER, DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION-6 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NORM USUALLY REQUIRED — VENTILATION LOCAL: WORK SITE
VENTILATION MECHANICAL: YES — SPECIAL: NO
PROTECTIVE GLOVES: NEOPRENE, ACID RESISTANT
EYE PROTECTION: SAFETY GLASSES, FACE SHIELD
OTHER PROTECTIVE CLOTHING/EQUIPMENT: CHEMICALLY IMPERVIOUS CLOTHING; SAFETY SHOWER/EYE WASH

SECTION-7 SPECIAL PRECAUTIONS AND HAZARDS CONSIDERED

HANDLING AND STORAGE PRECAUTIONS: KEEP CONTAINER CLOSED. IF FROZEN, THAW AND MIX TO MAKE USABLE. KEEP AWAY FROM CHLORINATED CLEANERS AND BLEACHES. SOLUTIONS OF PRODUCT WILL ETCH GLASS. DO NOT STORE OR CONTAMINATE FOOD.
OTHER PRECAUTIONS: DOT: AMMONIUM HYDROGENDIFLUORIDE, SOLUTION, 8,(6.1), UN2817, PG II (ERG #60, IMDG PAGE 8112, EMS #8-06, NFAG #760)
IF MATERIAL IS RELEASED/SPILLED: FLUSH SMALL AMOUNTS TO DRAIN AFTER NEUTRALIZATION WITH DILUTE ALKALI. IMPOUND LARGE AMOUNTS AS HAZARDOUS WASTE.
CERCLA RQ = 666 LBS. OR 77 GAL.
WASTE DISPOSAL METHODS: USE UNTIL LESS THAN 1 INCH REMAINS IN CONTAINER, EMPTY CONTAINER TRIPLE RINSE WITH WATER, ADD TO OPERATION
REMOVE OR DEFACE LABEL BEFORE SELLING CONTAINER OR DISPOSAL
CONSULT LOCAL OR STATE REGULATIONS REGARDING HAZARDOUS WASTE DISPOSAL.

HMIS RATING: HEALTH 3 — FLAMMABILITY 0 — REACTIVITY 0 — PERSONAL PROTECTION D

SARA TITLE III SECTION 313

ALL CHEMICAL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY.

STATE OF PA RIGHT TO KNOW

AMMONIUM HYDROGEN FLUORIDE - CAS #1341-49-7
WATER - CAS #7732-18-5

MATERIAL SAFETY DATA SHEET

This MSDS Complies with 29 CFR 1910 . 1200 (The Hazard Communication Standard)

HEALTH	3
FLAM	0
REAC	1

Product Name or Number (as it appears on label)	Part No.
LAUNDRY SOUR PLUS	

SECTION I

Manufacturer's Name CHEM-X	Emergency Telephone Number 800-535-5053 (Infotrac)
Address (Number, Street, City, State, and Zip Code) 800 E. Northwest Hwy., Suite 700	Telephone Number for Information 708-934-2555
Palatine, IL 60067	Date Prepared 9-1-93
	Signature of Preparer (optional)

Hazardous Material Description, Proper Shipping Name, Hazard Class, Hazard I.D. Number, Packaging Group (49CFR 172.101)

Fluorosilicic Acid 23%, 8 UN 1778, PG II Corrosive Material ERG #60

SECTION II - INGREDIENTS (Hazardous Ingredients Identity Information)

Hazardous Components (Specific Chemical Identity; Common Name(s).) CAS REGISTRY NO.	OSHA PEL	ACGIH TLV	Other Limits Recommended	%
Hydrofluosilicic Acid	2.5 MG/M^3	2.5 MG/M^3		23
CAS #16961-83-4				

SECTION III - PHYSICAL DATA (Physical / Chemical Characteristics)

Boiling Point	220°F	Vapor Density (AIR = 1)	NA	Specific Gravity H_2O = 1	1.22	Evaporation Rate (Butyl Acetate = 1	1
Vapor Pressure (mm Hg)	24	Solubility in Water	100%	Melting Point	4°F	pH =	1

Appearance: Clear colorless liquid sharp pungent odor

SECTION IV -FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) Nonflammable	Flammable Limits NA	LEL NA	UEL NA

Extinguishing Media: This material is not combustible. Use extinguishing media appropriate for surrounding fire.

Special Fire Procedures: Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool nearby containers and structures exposed to fire.

Unusual Fire and Explosion Hazards: Extinguish all nearby sources of ignition since flammable hydrogen gas will be liberated from contact with some metals.

Sour Plus Page 2

ility / le / XX	Conditions To Avoid: not known

ompatibility (Materials to Avoid) Alkalis, oxidizing or reducing materials, cyanides, sulfides or bustible material. Glass carbon steel, water, concrete metals and organics.

ous Decomposition or Byproducts
Hydrofluoric acid and silicon tetrafluoride.

Polymerization: Occur [ ] Will Not Occur [X]	Conditions to Avoid: Heat, sparks and open flames.

CTION VI - HEALTH HAZARD DATA

ary Routes of Entry	X	Ingestion	X	Inhalation	X	Skin Absorbtion	X	Skin Or Eye Contact

ealth Hazards (Acute and Chronic) INGESTION: Causes severe damage to membranes of mouth, throat and omach, burns the tissues. INHALATION: Vapor or mist can cause damage to the entire spiratory tract, irritation to severe tissue damage. SKIN: Severe irritation to burns to tissue damage. EYES: Vapor or mists severely irritating to permanent damage even indness.

inogenicity: None NTP? NO IARCMonographs? No OSHA Regulated? NO

Signs and Symptoms of Exposure INGESTION: Severe abdominal pain, nausea, vomiting, severe burns to outh and throat, lethargy with possible death. INHALATION: Irritation, coughing, shortness f breath, chest pain, burns to respiratory tract. SKIN: Severe irritation to severe burns. YES: Tearing, redness, swelling to severe burns to possible blindness.

dical Conditions
Generally Aggravated by Exposure none known.

Emergency and First Aid Procedures INGESTION: Do not induce vomiting which will create further damage. rink large quantities of water or mild. Do not give anything by mouth to a unconscious person. INHALATION: Remove to fresh air, give artificial respiration if not breathing. SKIN: Flush with running water for 15-30 minutes. Remove contaminated clothing. EYES: Flush with running water for 30 minutes. Lifting upper & lower eyelids. In all cases get immediate medical attention.

SECTION VII - Precautions for Safe Handling and Use

Steps To Be Taken In Case Material Is Released Or Spilled Wear acid-resistant full protective clothing and equipment. Small Spills: mop or wipe up and dispose of in DOT approved waste containers. Large spills: contain by diking with non-combustible absorbent meterial and neutralize with soda ash or lime. Provide adequate ventilation to dissipate carbon dioxide gas. Keep non-neutralized material out of sewers, storm drains, surface waters and soil.

Waste Disposal Method Dispose of in approved DOT containers in accordance with local, state and federal regulations.

Precautions To Be Taken In Handling And Storing Prevent possible eye and skin contact by wearing protective clothing and equipment. Store in a cool, dry, well vented area away from direct sunlight or heat. Store in plastic containers away from flames, sparks. Do not cut, grind or grill near containers. Keep containers closed when not in use. Store away from other chemicals. Do not use pressure to empty containers.

Other Precautions Empty containers retain product vapor or residue. Follow all label warnings even after container is empty. Launder contaminated clothing before reuse. Wash after handling. Do not breath vapors or mist.

SECTION VIII - Control Measure (Special Protection Equipment Information)

Respiratory Protection (Specify Type) If use conditions generate vapors or mist wear a NIOSH approved respirator for acid gases. Avoid breathing vapors or mist.

Ventilation: Mechanical, General or Local Exhaust Provide sufficient ventilation to maintain exposure below PEL or TLV limits.

Protective Gloves: Rubber gloves with gauntlets	Eye Protection: chemical splash goggles & face shield

Other Protective Clothing or Equipment
clothing and shoes. Eyewash station. Emergency shower.

contaminated clothing.

LAUNDRY SOUR PLUS

INSTITUTIONAL FABRIC NEUTRALIZER & BRIGHTENER

FOR USE IN INSTITUTIONAL AND INDUSTRIAL LAUNDRY FACILITIES

FOR INSTITUTIONAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

FLUOROSILICIC ACID 23%, 8 , UN1778, PGII , CORROSIVE MATERIAL

CAUTION:

HANDLE WITH EXTREME CAUTION. SEVER SKIN AND EYE IRRITANT. HARMFUL OR FATAL IF SWALLOWED. WEARING SKIN AND EYE PROTECTION RECOMMENDED . DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. THIS PRODUCT IS INTENDED FOR INDUSTRIAL USE ONLY, BY TRAINED PROFESSIONAL PERSONNEL. MANUFACTURE / DISTRIBUTOR WILL NOT BE RESPONSIBLE FOR ANY LOSS, INJURY, OR DAMAGE, IF USED IN ANY MANNER NOT CONSISTENT WITH LABEL DIRECTIONS OR IF MSDS PRECAUTIONS ARE NOT OBSERVED. READ AND UNDERSTAND THE MSDS SHEET ON THIS PRODUCT BEFORE USE

FIRST AID:

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MANUFACTURED IN U.S.A.

HAZARD RATING:	HMIS
HEALTH.....	3
FLAMMABILITY.....	0
REACTIVITY.....	1

CHEM-X-CORP.

P.O. BOX 7165, BUFFALO GROVE, IL 60089

FOR REORDER CALL: (847) 934-2555

FOR CHEMICAL EMERGENCIES CALL INFOTRAC : 1-800-535-5053

MATERIAL SAFETY DATA SHEET

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

IDENTITY (Trade Name and Synonyms)	PART NO. IF APPLICABLE
POWER PLUS/ALKALINE BUILDER	

SECTION I

Manufacturer's Name: CHEM-X	Emergency Phone No.
Address (Number, Street, City, State, and Zip Code): 800 E. Northwest Hwy., Suite 700	Signature of Preparer: (Optional)
Palatine, IL 60067	Manufacturer's Phone No. for Information: 708-934-2555
	Date MSDS was prepared: 9/28/92

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION.

All Health Hazards which comprise 1 % or greater of the composition and all carcinogens if 0.1% of the composition or greater

Hazardous Components (Specific Chemical Identity and Common Name(s), if any.	CAS NO.	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	% (OPTIONAL)
Sodium Hydroxide Solution 50%		2mg/M^3	2mg/M^3		33%
CAS #1310-73-2					
Potassium Hydroxide solution 45%		2mg/M^3	2mg/^{3}		25%
CAS #1310-58-3					

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 260°F	Specific Gravity (H$_2$O=1):	Melting Point: n/a
Vapor Pressure (mm Hg.):	Vapor Density (AIR=1): less than 1	Evaporation Rate (Butyl Acetate=1): greater than water
Solubility in Water: complete	% Volatile by Volume: n/a	Other (If any):
Appearance and Odor: Clear, slight odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): n/a	Flammable Limits: n/a	LEL: n/a	UEL: n/a
Extinguishing Media: No fire hazard - can use water			
Special Fire Fighting Procedures: nonflammable - use standard fire fighting procedures Recommend self-contained breathing apparatus.			
Unusual Fire and Explosion Hazards: none			
Hazardous products formed by fire or thermal decomposition: none			
Explosive Limits (% by volume in air): n/a			

SECTION V - OPTIONAL HAZARD RATINGS IDENTIFICATION

Hazardous Materials Identification System (HMIS)	National Fire Protection Association (NFPA)
HEALTH 3 REACTIVITY 1	FIRE 0 REACTIVITY 1
FLAMMABILITY 0 PERSONAL PROTECTION J	HEALTH 3 SPECIAL HAZARDS Cor.

SECTION VI - REACTIVITY and STABILITY DATA

STABILITY			Conditions to avoid
	Unstable		Product absorbs carbon dioxide from the air. Keep container closed.
	Stable	XX	

INCOMPATIBILITY(Materials to Avoid): Aluminum, zinc, tin & alloys containing these metals. Avoid organic acids.

HAZARDOUS DECOMPOSITION or BY PRODUCTS: None known

HAZARDOUS POLYMERIZATION			Conditions to avoid
	May Occur		not known
	Will not Occur	XX	

SECTION VII - HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Ingestion? Yes Eyes? Yes

Health Hazards			
	Acute		EYES & EXTERNAL: Causes severe burns.
	Chronic		INTERNAL: May be fatal if swallowed or inhaled.

Carcinogenicity: Not known NTP? not known IARC Monographs? now known OSHA Regulated? not known

Signs and Symptoms of Exposure: INHALATION: Irritation nose & throat. Headache, hoarseness. Cough, Chest pain, cyanosis. Fever. Nausea, Vomiting. Shortness of breath. SKIN CONTACT: Inflammation or open sores with inflammed base of hands. EYES: Pinkeye & corneal burn. INGESTION: Abdomen pain, nausea. Vomiting, bloody diarrhea. Shock.

Medical Conditions Generally Aggravated by Exposure: Permanent disability can occur.

Emergency and First Aid Procedures: EXTERNAL: Flush with water then wash affected area with mild soap. EYES: Flush with water for at least 15 minutes. INTERNAL: Drink large quantities of water. Do not induce vomiting. If inhaled provide oxygen artificial respiration. Immediately call physician.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING and USE

Steps to be Taken in Case Material is Released or Spilled: Neutralize with sodium carbonate (water & soda ash). May be picked up with sand and placed in dry container. Flush remains with water to chemical sewer.

Waste Disposal Method: Dispose in accordance with federal, state & local regulations.

Precautions to be Taken in Handling & Storage: Keep container tightly closed. Wash thoroughly after handling. Keep out of reach of children. Store in dry cool area.

Other Precautions: Keep from freezing. Do not breath dust or mist. Prolonged exposure or spillage wash clothing before reuse. Avoid storing next to acids.

SECTION IX - CONTROL MEASURES

Respiratory Protection (Specify Type): Dust/mist/fume respirator-prolonged exposure Use Sellstrom 315F 108 high efficiency type resp.

Protective Gloves: Rubber/plastic

Ventilation		
	Local Exhaust	Maintain adequate ventilation
	Mechanical (General)	Maintain adequate ventilation

Special: Not known

Other:

Eye Protection: Chemical splash goggles Face shield

Other Protective Clothing or Equipment: Skin protection with sleeved clothing. Rubber apron.

Work/Hygienic Practices: For prolonged exposure or spillage wash clothing before reuse.

SECTION X - TRANSPORTATION INFORMATION (optional)

D.O.T. Proper Shipping Name: Cleaning Compound Liquid

D.O.T. Hazard Class: Corrosive

If a "Consumer Commodity ORM-D", What is the qualifying Chemical?

D.O.T. I.D. NO. (UN or NA): NA 1760

Hazard Label or Marking Required on Shipper Ctn.: Corrosive

IATA Proper Shipping Name

IATA Hazard Class

IMO NO.

MATERIAL SAFETY DATA SHEET

(Prepared according to 29 CFR 1910.1200)

SECTION 1 - PRODUCT IDENTIFICATION

DISTRIBUTOR CHEM-X CORP. PHONE: (708)934-2555

ADDRESS : P.O. BOX 7165 , BUFFALO GROVE, IL 60089

TRADE NAME **LINEN CLEAN PLUS-III** PRODUCT TYPE LAUNDRY DETERGENT & ADDITIVE

SECTION 2 - INGREDIENTS

CHEMICAL NAME/COMMON NAME	CAS NO.	PERCENT(OPTIONAL)	TLV(SOURCE)
2-PROPANOL: DIMETHYL CARBINOL	67-63-0		
METHYL ALCOHOL	67-56-1		
NONYLPHENOXYPOLYETHOXYETHANOL	26027-38-3		

SECTION 3 - PHYSICAL DATA

BOILING POINT (F) 190 F

VAPOR PRESSURE (mm Hg) NOT DETERMINED VAPOR DENSITY NOT DETERMINED

SOLUBILITY IN WATER

_X_ COMPLETE ___ INSOLUBLE ___ EMULSIFIABLE ___ SLIGHT

EVAPORATION RATE(vsH2O)

___ FASTER ___ SLOWER __X__ ABOUT THE SAME APPEARANCE OPAQUE BLUE LIQUID

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (T.C.C.) F NONE TO BOILING FLAMMABLE LIMITS N/A UPPER LOWER

EXTINGUISHING MEDIA WATER SPRAY(FOG) : DRY CHEMICAL : CO2: FOAM

SPECIAL FIRE FIGHTING PROCEDURES DO NOT ENTER CONFINED FIRE-SPACES WITHOUT PROTECTIVE CLOTHING AND SELF-CONTAINED AIR SUPPLY.

UNUSUAL FIRE AND EXPLOSION HAZARDS NONE

SECTION 5 - REACTIVITY DATA

STABILITY STABLE INCOMPATIBILITY STRONG ACIDS/OXIDIZERS . DO NOT MIX WITH CHLORINATED DETERGENTS (BLEACH).

HAZARDOUS DECOMPOSITION PRODUCTS BURNING MIGHT PRODUCE CARBON MONOXIDE AND/OR CARBON DIOXIDE.

SECTION 6 - HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE

_X_ EYE __X_ SKIN __X_ ORAL ___ INHALATION ___ OTHER

SIGNS AND SYMPTOMS OF OVEREXPOSURE (ACUTE) IRRITANT. MAY IRRITATE SKIN AND EYES WITH PROLONGED CONTACT. EYE DAMAGE LIKELY IF CONTACT IS PROLONGED. GENERATED MISTS MAY BE IRRITATING AND CAUSE HARMFUL OR FATAL IF SWALLOWED.

SIGNS AND SYMPTOMS OF OVEREXPOSURE (CHRONIC) CONTAINS MATERIAL WHICH PENETRATE SKIN READILY. INGESTION, PROLONGED OR WIDESPREAD CONTACT MAY RESULT IN THE ABSORPTION OF POTENTIALLY HARMFUL AMOUNTS. REPEATED SKIN CONTACT MAY RESULT IN DEVELOPMENT OF DERMATITIS.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE AN EXISTING DERMATITIS.

CARCINOGEN OR SUSPECT CARCINOGEN INGREDIENTS

___ NTP ___ IARC ___ OSHA _X_ NONE

MATERIAL SAFETY DATA SHEETS

(CONTINUED)

PRODUCT : LINEN CLEAN PLUS-III

SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

EYES FLUSH WITH WATER FOR AT LEAST 15 MINUTES AND CALL A PHYSICIAN IF IRRITATION OCCOURS.

SKIN WASH AFFECTED AREAS WITH LARGE AMOUNTS OF SOAP AND WATER. IF IRRITATION PERSISTS CALL A PHYSICIAN.

INGESTION CALL A PHYSICIAN IMMEDIATELY.

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION NOT REQUIRED UNDER NORMAL CONDITIONS.

VENTILATION REQUIREMENTS LOCAL EXHAUST

EYE PROTECTION SAFETY GLASSES / GOGGLES

PROTECTIVE GLOVES RUBBER/PVC

OTHER PROTECTIVE CLOTHING NORMAL WORK CLOTHING

SECTION 9 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF RELEASED OR SPILLED STOP SPILL AT SOURCE. PREVENT RUN OFF. MOP, SHOVEL, PUMP AND/OR ABSORB WITH INERT MATERIAL AND PLACE IN SOUND CONTAINERS. CAREFULLY RECLAIM INTO SOUND CONTAINERS FOR PROPER DISPOSAL.

WASTE DISPOSAL METHODS DISPOSE OF IN AN APPROVED WASTE FACILITY ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 10 - STORAGE AND HANDLING INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE WARNING: EMPTY CONTAINER MAY CONTAIN COMBUSTIBLE VAPORS. PROVIDE ADEQUATE VENTILATION. HANDLE ALL CONTAINERS CAREFULLY.

NOTICE

THE HEALTH HAZARD GIVEN ON THIS MATERIAL SAFETY DATA SHEET APPLY TO THIS PRODUCT IN ITS CONCENTRATED FORM (AS SUPPLIED) AND MAY DIFFER SIGNIFICANTLY AT USE DILUTION. THE SIGNS AND SYMPTOMS OF OVER EXPOSURE APPLY ONLY TO NEGLIGENCE IN HANDLING OR MISUSE OF THE CONCENTRATED PRODUCT AND NOT TO THE ROUTINE EXPOSURE OF THE DILUTED PRODUCT UNDER CONDITIONS OF ORDINARY USE.

LINEN CLEAN PLUS-III

DUAL ACTION CONCENTRATED DETERGENT & ADDITIVE

FOR USE IN INSTITUTIONAL AND INDUSTRIAL LAUNDRY FACILITIES

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

CAUTION:

HANDLE WITH EXTREME CAUTION. SEVER SKIN AND EYE IRRITANT. HARMFUL OR FATAL IF SWALLOWED. WEARING SKIN AND EYE PROTECTION RECOMMENDED . DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. THIS PRODUCT IS INTENDED FOR INDUSTRIAL USE ONLY, BY TRAINED PROFESSIONAL PERSONNEL. MANUFACTURE / DISTRIBUTOR WILL NOT BE RESPONSIBLE FOR ANY LOSS, INJURY, OR DAMAGE, IF USED IN ANY MANNER NOT CONSISTENT WITH LABEL DIRECTIONS OR IF MSDS PRECAUTIONS ARE NOT OBSERVED. READ AND UNDERSTAND THE MSDS SHEET ON THIS PRODUCT BEFORE USE.

FIRST AID:

IN CASE OF ACCIDENTAL INGESTION, DO NOT INDUCE VOMITING, IMMEDIATELY RINSE MOUTH, THEN DRINK LARGE VOLUMES OF WATER .DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IN CASE OF EYE OR SKIN CONTACT, WASH IMMEDIATELY WITH MUCH COLD WATER, IN ANY CASE GET MEDICAL ATTENTION.

MANUFACTURED IN U.S.A.

CHEM-X CORP. ***PALATINE, IL 60089- PHONE: (847) 934-2555***

FOR CHEMICAL EMERGENCIES CALL INFOTRAC : 1-800-535-5053

MATERIAL SAFETY DATA SHEET

(Prepared according to 29 CFR 1910.1200)

SECTION 1 - PRODUCT IDENTIFICATION

MANUFACTURER / DISTRIBUTOR: CHEM-X-CORP. PHONE: (708) 934-2555

ADDRESS : 800 E. N.W. HWY PALATINE, IL 60067

EMERGENCY PHONE: INFOTRAC 1-800-535-5053

TRADE NAME **SOFT SOUR** PRODUCT TYPE: LIQUID FABRIC SOFTENER & CONDITIONER

SECTION 2 - INGREDIENTS

CHEMICAL NAME/COMMON NAME	CAS NO.	PERCENT(OPTIONAL)	TLV(SOURCE)
PHOSPHORIC ACID	7664-38-2		

SECTION 3 - PHYSICAL DATA

BOILING POINT (F) 210 F. SPECIFIC GRAVITY (H2O=1.0) 1.02 ~0.005

VAPOR PRESSURE (mm Hg) NOT DETERMINED VAPOR DENSITY NOT DETERMINED

SOLUBILITY IN WATER
_X_COMPLETE ___INSOLUBLE ___EMULSIFIABLE ___SLIGHT

EVAPORATION RATE(vsH2O)
___FASTER __X__SLOWER ___ ABOUT THE SAME APPEARANCE: VISCOUS LIQUID

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (T.C.C.) N/A FLAMMABLE LIMITS N/A UPPER LOWER

EXTINGUISHING MEDIA WATER SPRAY(FOG) ; DRY CHEMICAL ; CO2; FOAM

SPECIAL FIRE FIGHTING PROCEDURES DO NOT ENTER CONFINED FIRE-SPACES WITHOUT PROTECTIVE CLOTHING AND SELF-CONTAINED AIR SUPPLY.

UNUSUAL FIRE AND EXPLOSION HAZARDS NONE

SECTION 5 - REACTIVITY DATA

STABILITY : STABLE INCOMPATIBILITY : STRONG ALKALIES/OXIDIZERS .

HAZARDOUS DECOMPOSITION PRODUCTS BURNING MIGHT PRODUCE CARBON MONOXIDE AND/OR CARBON DIOXIDE.

SECTION 6 - HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE
_X_EYE __X_SKIN __X_ORAL ___INHALATION ____OTHER

SIGNS AND SYMPTOMS
OF OVEREXPOSURE: PROLONGED OR REPEATED OF CONCENTRATED PRODUCT WITH SKIN AND/OR EYES MAY CAUSE IRRITATION
(ACUTE) AND REDDENING. INGESTION MAY CAUSE NAUSEA, VOMITING, DIARRHEA, AND MUCOUSAL IRRITATION.
EXCESSIVE INHALATION OF MIST AND/ OR VAPORS MAY CAUSE RESPIRATORY AND MUCOUSAL IRRITATION.

SIGNS AND SYMPTOMS OF OVEREXPOSURE : PROLONGED OR WIDESPREAD CONTACT WILL RESULT IN IRRITATION AND/OR
(CHRONIC) AGGRAVATION OF POSSIBLE PRE-EXISTING CONDITIONS.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE AN EXISTING DERMATITIS.

CARCINOGEN OR SUSPECT CARCINOGEN INGREDIENTS
___NTP ___IARC ____OSHA __X__NONE

MATERIAL SAFETY DATA SHEETS

(CONTINUED)

PRODUCT : SOUR SOFT

SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

EYES : FLUSH WITH WATER FOR AT LEAST 15 MINUTES, IF IRRITATION PERSISTS CALL A PHYSICIAN IMMEDIATELY.

SKIN : WASH AFFECTED AREA WITH LARGE AMOUNTS WATER. IF IRRITATION PERSISTS CALL A PHYSICIAN.

INGESTION : CONTAINS CATIONIC SURFACTANTS $ PHOSPHORIC ACID . IN CASE OF INGESTION GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION : REMOVE TO FRESH AIR.

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : NOT REQUIRED UNDER NORMAL CONDITIONS.

VENTILATION REQUIREMENTS : LOCAL EXHAUST EYE PROTECTION : SPLASH RESISTANCE GOGGLES

PROTECTIVE GLOVES : RUBBER/PVC OTHER PROTECTIVE CLOTHING : NORMAL CLOTHING

SECTION 9 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF RELEASED OR SPILLED : STOP SPILL AT SOURCE. PREVENT RUN OFF. MOP, SHOVEL, PUMP AND/OR ABSORB WITH INERT MATERIAL AND PLACE IN SOUND CONTAINERS. RINSE REMAINING RESIDUE WITH EXCESS WATER.

WASTE DISPOSAL METHODS: DISPOSE OF IN AN APPROVED WASTE FACILITY ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 10 - STORAGE AND HANDLING INFORMATION

PRECAUTIONS TO BE TAKEN WARNING: EMPTY CONTAINER MAY CONTAIN HAZARDOUS FUMES.FA STORE IN A COOL HANDLING AND STORAGE : AREA, AWAY FROM OXIDIZING MATERIAL. PROVIDE ADEQUATE VENTILATION. HANDLE ALL CONTAINERS CAREFULLY.

* NOTICE

THE HEALTH HAZARD GIVEN ON THIS MATERIAL SAFETY DATA SHEET APPLY TO THIS PRODUCT IN ITS CONCENTRATED FORM (AS SUPPLIED) AND MAY DIFFER SIGNIFICANTLY AT USE DILUTION. THE SIGNS AND SYMPTOMS OF OVER EXPOSURE APPLY ONLY TO NEGLIGENCE IN HANDLING OR MISUSE OF THE CONCENTRATED PRODUCT AND NOT TO THE ROUTINE EXPOSURE OF THE DILUTED PRODUCT UNDER CONDITIONS OF ORDINARY USE.

FABRIC SOFTENER & SOUR

NSTITUTIONAL FABRIC CONDITIONER & SOFTENER

FOR USE IN INSTITUTIONAL AND INDUSTRIAL LAUNDRY FACILITIES

FOR INSTITUTIONAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

CONTAINS: QUATERNARY AGENTS & PHOSPHORIC ACID

CAUTION:

HANDLE WITH EXTREME CAUTION. SEVER SKIN AND EYE IRRITANT. HARMFUL OR FATAL IF SWALLOWED. WEARING SKIN AND EYE PROTECTION RECOMMENDED . DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. THIS PRODUCT IS INTENDED FOR INDUSTRIAL USE ONLY, BY TRAINED PROFESSIONAL PERSONNEL. MANUFACTURE / DISTRIBUTOR WILL NOT BE RESPONSIBLE FOR ANY LOSS, INJURY, OR DAMAGE, IF USED IN ANY MANNER NOT CONSISTENT WITH LABEL DIRECTIONS OR IF MSDS PRECAUTIONS ARE NOT OBSERVED. READ AND UNDERSTAND THE MSDS SHEET ON THIS PRODUCT BEFORE USE.

FIRST AID:

IN CASE OF ACCIDENTAL INGESTION, DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION IMMEDIATELY., DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IN CASE OF EYE OR SKIN CONTACT, WASH IMMEDIATELY WITH MUCH COLD WATER, IN ANY CASE GET MEDICAL ATTENTION IMMEDIATELY.

MANUFACTURED IN U.S.A.

CHEM-X-CORP.

P.O. BOX 7165, BUFFALO GROVE, IL 60089

FOR REORDER CALL: (847) 934-2555

FOR CHEMICAL EMERGENCIES CALL INFOTRAC : 1-800-535-5053

DIRECTIONS

- Sort laundry by fabric type and soil load. Presoak and/or prespot if necessary.
- Load wash machine with linens. Do not overload. Wash with recommended amount of detergent.
- During bleach cycle, be sure to avoid using a chlorine bleach on colored fabrics.
- Sour linens to desired finish. When souring, amount used will depend upon method of finishing (dryer, folder, ironer). A final pH of 5.5- 6.5 is recommended.
- Add Liquid Starch/Sizing to either the final rinse or during souring process. Product should be added at a low water level and a temperature of 110-120°F.
- Consult your service technician for exact usage.

FINAL

LIQUID

SIZING AND STARCH

COMBINATION

FOR INSTITUTIONAL USE ONLY

An innovative new product designed to yield life to fabrics. Helps to impart a smooth, semi-rigid finish to shirts, sheets, uniforms, table linens, and fabrics. Can be used in textile operations to provide easy cutting and stitching. Effective on cottons, poly/cotton blends, and polyester. Perfect for use in automatic injection systems.

CAUTION: Causes irritation to eyes. Do not ingest. In case of ingestion, drink plenty of water followed with citrus juice. Do not induce vomiting. Never give fluids to an unconscious person. Get medical attention. In case of eye contact, raise eyelids and flush eyes for 15 minutes with clear water. Follow with a 5% boric acid solution. Get medical attention immediately. In case of skin contact, wash with a mild soap and water followed with a 5% boric acid solution. If irritation occurs, get medical advice.

REFER TO YOUR MATERIAL SAFETY DATA SHEET FOR ADDITIONAL CAUTIONS AND HANDLING PROCEDURES.

NET CONTENTS 15 GALLONS

48271291

PDQ MANUFACTURING, INC.
P.O. Box 69362
Atlanta, Georgia 30316
(800)248-2461

Laidlaw Corporation
1212 E. 5th Street
Metropolis, IL 62960

Date Signed: 1-2-98

Prepared By: John T. Beckman

Transportation: Chemtrec

Emergency: 1-800-424-9300

MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION

PRODUCT NAME: Formula Z
CHEMICAL NAME: Spot and Stain Remover
CAS NUMBER: MIXTURE
EMERGENCY TELEPHONE NUMBER: (618) 524-9394

II. COMPONENTS AND HAZARD INFORMATION

HAZARDOUS COMPONENT	CAS NO. OF COMPONENT	TLV OF COMPONENT	OSHA PEL	APPROXIMATE CONCENTRATION
Surfactant Blend	Mixture	Not established	Not established	<25%

This product contains trace amounts of Ethylene Oxide, considered by the state of California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as causing cancer or reproductive toxicity. This product is not considered a carcinogen by the NTP.

D.O.T. Hazard Classification: Liquid, Non-Hazardous

Hazardous Materials Identification System (HMIS)

Health	Flammability	Reactivity	BASIS
3	0	0	Recommended by Laidlaw

TLV for Total Product
Not established.

BASIS
Calculated TLV REF ACGIH

III. PHYSICAL DATA

Boiling Point >212°F
Vapor Pressure Not determined.
Specific Gravity >1.00
Vapor Density Not determined.
Percent Volatiles Not determined.
Evaporation Rate <1.0

IV. FIRE AND EXPLOSION DATA

Flash Point (°F TCC) None.
Extinguishing Media Appropriate to the surrounding fire.

Special Firefighting Procedures None.

Unusual Fire & Explosion Hazards None.

National Fire Protection Association (NFPA) - Hazard Identification

Health	Flammability	Reactivity	BASIS
3	0	0	Recommended by Laidlaw

V. HEALTH HAZARD DATA

Effects of Overexposure:

Eyes: Eye contact may cause irritation.

Skin: Prolonged skin contact may cause irritation and possible adsorption.

Breathing: May cause irritation.

Swallowing: May cause abdominal discomfort.

First Aid Procedures:

Swallowing: If individual is conscious, induce vomiting. Call a physician.

Skin: Flush with running water. If irritation persists, obtain medical aid.

Inhalation: Remove individual to fresh air.

Eyes: Flush eyes with running water for 15 minutes, lifting eyelids occasionally. Obtain medical aid.

Health studies have shown that health risks vary from person to person. As a precaution exposure to liquids, vapors, misty fumes or dust should be minimized. Keep away from children.

VI. REACTIVITY DATA

Hazardous Polymerization: Will not occur.
Stability: Stable.
Incompatibility: None known.
Hazardous Decomposition Products: None known.

VII. SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
For large spills: wear protective clothing. Contain the spill. Return product to UN approved waste containers. For small spills: mop up and rinse the area.

VIII. PROTECTION AND PRECAUTIONS

spiratory Protection: Normally not required.

Ventilation: As required.
Protective Gloves: Rubber.
Eye Protection: Safety glasses.
Other Protective Equipment: None normally required.

IX. PRECAUTIONS OR OTHER COMMENTS

Precautions to be taken in handling and storing: Maintain good housekeeping. Avoid contact with eyes. Wash thoroughly after handling. Use with adequate ventilation.
The information and recommendations accumulated herein are to the best of Laidlaw's knowledge and belief, accurate and reliable a of the date issued. Laidlaw does not warrant or guarantee their accuracy or reliability, and shall not be liable for any loss or damage arising out of the use thereof.
HMIS and NFPA recommended ratings are based upon the criteria supplied by the developers of these rating systems together with Laidlaw's interpretation of the available data.

MATERIAL SAFETY DATA SHEET

TECH HELP--800-862-8883 MON-FRI 8-5 PM EST

EMERGENCY: RENEW EXTRA
MEDICAL(COLLECT) 303-592-102
CHEMTREC 1-800-424-930

MANUFACTURER: AMERICLEAN SYSTEMS INC.

DIVERSEY LEVER, INC.
46701 COMMERCE CENTER DR
PLYMOUTH, MICHIGAN 48170
PREPARED 08/16/94

EMERGENCY PHONE NO. 1-800-831-9889

REFERENCE

ABBREVIATIONS: C-CEILING, MP-MAXIMUM PEAK, NA-NOT APPLICABLE, NK-NOT KNOWN, P-POTENTIAL, PEL-PERMISSIBLE EXPOSURE LIMIT, PM-PENSKY MARTENS, S-SKIN, ST-SHORT TERM, TLV-THRESHOLD LIMIT VALUE, TWA-TIME WEIGHT AVERAGE

SECTION-1 IDENTITY

COMMON NAME USED ON LABEL: RENEW EXTRA — CODE 09977

CHEMICAL FAMILY: LIQUID LAUNDRY DETERGENT

SECTION-2 HAZARDOUS INGREDIENTS ONLY ITEMS LISTED ARE HAZARDOUS BY TITLE 29 CFR 1910.1200

PRINCIPAL HAZARDOUS COMPONENT(S) CHEMICAL & COMMON NAME	%	EXPOSURE LIMITS (TWA 8 HOURS UNLESS OTHERWISE SPECIFIED)	UNITS
NONYL PHENOXY POLYETHOXY GLYCOL (9016-45-9)	<80	NONE ESTABLISHED	

SECTION-3 PHYSICAL & CHEMICAL CHARACTERISTICS (FIRE & EXPLOSION DATA)

BOILING POINT: 225 °F — SPECIFIC GRAVITY: 1.04 — VAPOR PRESSURE: <1 — MELTING POINT: 20 °C — VOLATILE BY WEIGHT: <8 %

VAPOR DENSITY (AIR=1): N/A — EVAPORATION RATE (BUTYL ACETATE=1): >1 — SOLUBILITY IN WATER: 100 % — % VOLATILE / VOLUME: NONE

APPEARANCE & ODOR: CLEAR AMBER YELLOW LIQUID, SLIGHT DETERGENT ODOR, TOC

FLASH POINT: >450 °F — FLASH EXTENSION: N/A — FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER NONE, UPPER NONE — AUTOIGNITION TEMPERATURE: N/A °F

EXTINGUISHER MEDIA: WATER, WATER FOG, DRY CHEMICAL, CO2

FIREFIGHTING SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR TO PREVENT SKIN CONTACT AND SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: PRODUCT WILL BURN IF EVAPORATED TO DRYNESS AND HEATED ABOVE FLASH POINT.

SECTION-4 PHYSICAL HAZARDS

STABILITY: STABLE — POLYMERIZATION: NONE

INCOMPATIBLE WITH: STRONG OXIDIZERS OR POWDERED CHLORINATED CLEANERS.

DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND SULFUR.

SECTION-5 HEALTH HAZARDS

PRIMARY ROUTES OF ENTRY: INHALATION NO — SKIN NO — INGESTION YES

SIGNS AND SYMPTOMS OF OVEREXPOSURE

1. ACUTE: CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. INHALATION OF MIST MAY IRRITATE NOSE, THROAT, AND PULMONARY MEMBRANES.

2. CHRONIC: NO CHRONIC HAZARDS KNOWN.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: SENSITIVE SKIN. MISTS MAY AGGRAVATE RESPIRATORY DISEASE.

LISTED CARCINOGEN: NONE — NTP NO — IARC NO — OSHA NO

EMERGENCY AND FIRST AID PROCEDURES

1. INHALATION: IF INHALED, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF BREATHING IS DIFFICULT.

2. EYES: FLUSH THOROUGHLY WITH FRESH WATER, FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

3. SKIN: FLUSH WITH FRESH WATER. REMOVE CONTAMINATED CLOTHES AND SHOES. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

4. INGESTION: GIVE WATER, DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION-6 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: USUALLY NOT REQUIRED. MONITOR AREAS FOR CONTAMINATION IF SYMPTOMS OF OVEREXPOSURE ARE EVIDENT. — VENTILATION LOCAL: NO

VENTILATION MECHANICAL: PROVIDE ADEQUATE VENTILATION — SPECIAL: NO

PROTECTIVE GLOVES: CHEMICAL RESISTANT, RUBBER, OR PVC

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELD/SPLASH GOGGLES

OTHER PROTECTIVE CLOTHING/EQUIPMENT: CHEMICALLY RESISTANT CLOTHING AND FOOTWEAR. SAFETY SHOWER AND EYE WASH IN USE AREA.

SECTION-7 SPECIAL CAUTIONS AND SPILL/LEAK PROCEDURES

HANDLING AND STORAGE PRECAUTIONS: KEEP CONTAINER CLOSED. STORE AWAY FROM OPEN FLAME OR OTHER HEAT SOURCES. DO NOT STORE WITH FOOD. STORE AWAY FROM ACIDS AND OXIDIZERS.

OTHER PRECAUTIONS: DOT CLASS: NOT REGULATED.

IF MATERIAL IS RELEASED/SPILLED: CAUSES VERY SLIPPERY SURFACES IF SPILLED. CONTAIN SPILL, MOP UP OR DILUTE WITH WATER, AND DISCHARGE TO A SANITARY SEWER SYSTEM. FOR LARGE AMOUNTS, MOP UP, PACKAGE AND DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. CERCLA PRODUCT RQ: NO REPORTABLE QUANTITY.

WASTE DISPOSAL METHODS: USE UNTIL LESS THAN ONE INCH REMAINS IN CONTAINER, EMPTY CONTAINER. TRIPLE RINSE CONTAINER WITH WATER, ADD TO OPERATION. REMOVE OR DEFACE CONTAINER LABEL BEFORE SELLING OR DISPOSAL. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. PROCESS WASTE SOLUTIONS MAY BE TOXIC TO AQUATIC LIFE. DO NOT DISCHARGE TO LAKES, STREAMS, PONDS.

NFPA RATING: HEALTH 2 — FLAMMABILITY 1 — REACTIVITY 0 — PERSONAL PROTECTION B

SARA TITLE III SECTION 313

ALL CHEMICAL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY.

STATE RIGHT TO KNOW

PA

POTASSIUM CHLORIDE - CAS #7447-40-7
POTASSIUM DODECYLBENZENE SULFONATE - CAS #27177-77-1
TRIETHANOLAMINE - CAS #102-71-6
NONYLPHENOXY POLYETHOXY GLYCOL - CAS#9016-45-9
WATER - CAS #7732-18-5

MATERIAL SAFETY DATA SHEET

DUCARE-8:00-5:00 EST-MON-FRI 1-800-543-4906

QUICK IDENTIFIER: LIQUID DIVERALK 1C 99

MEDICAL(COLLECT) 303-592-1024
CHEMTREC 1-800-424-9300

NAME

MANUFACTURER: DIVERSEY CORP.
12025 TECH CENTER DRIVE
LIVONIA, MICHIGAN 48150
PREPARED BY: REGULATORY
ON 02/12/96

EMERGENCY PHONE NO. 313-458-5000

REFERENCE

ABBREVIATIONS —C-CEILING—MP-MAXIMUM PEAK—N/A-NOT APPLICABLE—N/K-NOT KNOWN—P-POTENTIAL—PEL-PERMISSIBLE EXPOSURE LIMIT —PM-PENSKY MARTENS—S-SKIN—ST-SHORT TERM—TLV-THRESHOLD LIMIT VALUE—TWA-TIME WEIGHT AVERAGE—

SECTION-1 IDENTITY

COMMON NAME USED ON LABEL: LIQUID DIVERALK 1C — CODE: 09974

CHEMICAL FAMILY: LIQUID LAUNDRY BUILDER

SECTION-2 HAZARDOUS INGREDIENTS (ONLY ITEMS LISTED ARE HAZARDOUS BY TITLE 29CFR 1910.1200)

PRINCIPAL HAZARDOUS COMPONENT(S) CHEMICAL & COMMON NAME	%	EXPOSURE LIMITS (TWA 8 HOURS UNLESS OTHERWISE SPECIFIED)	UNITS
SODIUM HYDROXIDE (1310-73-2)	<36	TLV C 2; PEL C 2	MG/M3

SECTION-3 PHYSICAL & CHEMICAL CHARACTERISTICS (FIRE & EXPLOSION DATA)

BOILING POINT: 234 °F — SPECIFIC GRAVITY: 1.39 — VAPOR PRESSURE: 17.5 mmHg @ 20 °C — VOLATILE BY VOLUME: 50 %

VAPOR DENSITY (AIR=1): N/A — WATER SOLUBILITY (% BY WEIGHT): >1 — SOLUBILITY IN SOLVENTS (% BY WEIGHT): 100 — VOLATILITY (% BY WEIGHT): N/A — EVAPORATION RATE: MODERA

APPEARANCE & ODOR: CLEAR AMBER LIQUID; SLIGHT AMMONIA ODOR

FLASH POINT: NONE °F — FLAME EXTENSION: N/A in — FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER NONE, UPPER NONE — AUTO IGNITION TEMPERATURE: N/A °F

EXTINGUISHER MEDIA: CO2, DRY CHEMICALS

PREVENTING SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR TO PREVENT SKIN CONTACT AND SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: PRODUCT SOLUTIONS IN CONTACT WITH ALUMINUM CAUSES SEVERE CORROSION AND RELEASES HYDROGEN GAS.

SECTION-4 PHYSICAL HAZARDS

STABILITY: STABLE — POLYMERIZATION: NONE

INCOMPATIBLE WITH: ACTIVE METALS, ORGANIC HALOGEN COMPOUNDS, STRONG ACIDS CAUSE VIOLENT REACTIONS.

DECOMPOSITION PRODUCTS: OXIDES OF CARBON

SECTION-5 HEALTH HAZARDS

PRIMARY ROUTES OF ENTRY: INHALATION YES — SKIN YES — INGESTION YES

SIGNS AND SYMPTOMS OF OVEREXPOSURE

1. ACUTE: CORROSIVE. CAUSES SEVERE BURNS TO SKIN AND EYES. MISTS ARE CORROSIVE TO SKIN, EYES AND RESPIRATORY TRACT MAY BE FATAL IF SWALLOWED.

2. CHRONIC: NO KNOWN CHRONIC HAZARDS.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: SENSITIVE SKIN, EYES, IMPAIRED PULMONARY FUNCTION.

LISTED CARCINOGEN: NONE — NTP: NO — IARC: NO — OSHA: NO

EMERGENCY AND FIRST AID PROCEDURES

1. INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GET MEDICAL ATTENTION.

2. EYES: FLUSH THOROUGHLY WITH FRESH WATER, FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

3. SKIN: FLUSH WITH FRESH WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHES AND SHOES. GET MEDICAL ATTENTION FOR ANY INJURED SKIN AREA.

4. INGESTION: GIVE WATER, DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION-6 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: WEAR NIOSH APPROVED RESPIRATOR IF TLV/PEL LIMITS ARE EXCEEDED.

VENTILATION MECHANICAL: NORMAL AIR DILUTION — VENTILATION LOCAL: NO — SPECIAL: NONE

PROTECTIVE GLOVES: RUBBER, PVC, OR CHEMICALLY RESISTANT

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS, SPLASH GOGGLES, FACESHIELD

OTHER PROTECTIVE CLOTHING/EQUIPMENT: SAFETY SHOWER/EYE WASH. CHEMICALLY IMPERVIOUS CLOTHING AND FOOTWEAR WHEN HANDLING.

SECTION-7 SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

HANDLING AND STORAGE PRECAUTIONS: DO NOT PRESSURE CONTAINER TO EMPTY. IF FROZEN, THAW AND MIX TO MAKE USABLE. KEEP AWAY FROM ACIDS. STORE IN A COOL AREA AWAY FROM HEAT SOURCES. DO NOT STORE WITH FOOD.

OTHER PRECAUTIONS: DOT CLASS: CORROSIVE LIQUIDS, N.O.S., (SODIUM HYDROXIDE), 8 , UN1760, PG II, D.O.T. EMERGENCY GUIDE NO. 60

IF MATERIAL IS RELEASED/SPILLED: STOP LEAKS AND CONTAIN SPILLS. LIQUIDS SHOULD BE VACUURED UP OR ABSORBED WITH CLAY OR SAND. PLACE WASTE IN AN APPROPRIATE COVERED CONTAINER. NEUTRALIZE RESIDUE WITH DILUTE MINERAL ACIDS AND FLUSH AREA WITH WATER.
CERCLA PRODUCT RQ = 4,000 LBS. OR 400 GAL.

WASTE DISPOSAL METHODS: USE UNTIL LESS THAN 1 INCH REMAINS IN CONTAINER, EMPTY CONTAINER TRIPLE RINSE WITH WATER, ADD TO OPERATION. ADJUST PH BEFORE DISPOSAL. RECYCLE CONTAINER OR DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. WASTE SOLUTIONS MAY BE TOXIC TO AQUATIC LIFE. DO NOT DISCHARGE TO LAKES, STREAMS, AND PONDS.

HMIS RATING: HEALTH 3 — FLAMMABILITY 0 — REACTIVITY 0 — PERSONAL PROTECTION D

SARA TITLE III SECTION 313

ALL CHEMICAL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY.

STATE OF PA RIGHT TO KNOW INFORMATION

SODIUM HYDROXIDE - CAS #1310-73-2
WATER - CAS #7732-18-5
SODIUM AMINOTRIMETHYLENE PHOSPHONATE - CAS #2235-43-0
SODIUM POLYACRYLATE - CAS #9003-04-7

MATERIAL SAFETY DATA SHEET

QUICK IDENTIFIER ▶ VALID II

64

DUCARE-8:00-5:00 EST-MON-FRI 1-800-543-4706

MEDICAL(COLLECT) 303-592-1024
CHEMTREC 1-800-424-9300

NAME

MANUFACTURER: DIVERSEY CORP.
12025 TECH CENTER DRIVE
LIVONIA, MICHIGAN 48150
PREPARED BY: REGULATORY
ON 03/30/93

EMERGENCY PHONE NO. 313-458-5000

REFERENCE

ABBREVIATIONS: .C-CEILING..MP-MAXIMUM PEAK.N/A-NOT APPLICABLE.N/K-NOT KNOWN.P-POTENTIAL.PEL-PERMISSIBLE EXPOSURE LIMIT..PM-PENSKY MARTENS..S-SKIN..ST-SHORT TERM..TLV-THRESHOLD LIMIT VALUE.TWA-TIME WEIGHTED AVERAGE.

COMMON NAME USED ON LABEL: VALID II — CODE: 08563

CHEMICAL FAMILY: CONCENTRATED LIQUID FABRIC SOFTENER

PRINCIPAL HAZARDOUS COMPONENT(S) CHEMICAL & COMMON NAME	%	EXPOSURE LIMITS (TWA 8 HOUR UNLESS OTHERWISE SPECIFIED)	UNITS
ISOPROPANOL (67-63-0)	<3	TLV 983; PEL 1230 (STEL)	MG/M3
POLYETHOXY QUATERNARY METHYL SULFATE (68410-69-5)	<28	NOT ESTABLISHED	

BOILING POINT 214 °F — SPECIFIC GRAVITY 0.99 — VAPOR PRESSURE 22.6 mmHg @ 20 °C — VOLATILE BY VOLUME 79%
VAPOR DENSITY N/A — EVAPORATION RATE (BUTYL ACETATE=1) <1 — SOLUBILITY IN WATER 100% — REACTIVITY IN WATER / — PH (DILUTION) NONE

APPEARANCE & ODOR: LIGHT BLUE OPAQUE LIQUID, SLIGHT ALCOHOL ODOR

FLASH POINT 152 °F — FLAME EXTENSION N/A in. — FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER N/A, UPPER N/A — AUTO IGNITION TEMPERATURE N/A °F

EXTINGUISHER MEDIA: WATER, WATER FOG

FIREFIGHTING SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR TO PREVENT SKIN CONTACT AND SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: RESIDUE MAY BURN IF ALL LIQUID IS EVAPORATED BY HEAT AND FIRE.

STABILITY: STABLE — POLYMERIZATION: NONE KNOWN

INCOMPATIBLE WITH: STRONG OXIDIZERS OR POWDERED CHLORINATED CLEANERS, OR ACIDS.

DECOMPOSITION PRODUCTS: OXIDES OF CARBON

PRIMARY ROUTES OF ENTRY: INHALATION NO — SKIN NO — INGESTION YES

SIGNS AND SYMPTOMS OF OVEREXPOSURE
1. ACUTE: IRRITATION OF EYES, SKIN, AND MEMBRANES. MAY BE HARMFUL IF SWALLOWED. INHALATION OF MIST MAY CAUSE IRRITATION OF NOSE, THROAT, AND PULMONARY MEMBRANES.
2. CHRONIC: SAME AS ACUTE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: SENSITIVE SKIN; MIST MAY AGGRAVATE RESPIRATORY DISEASE.

LISTED CARCINOGEN: NONE — NTP NO — IARC NO — OSHA NO

EMERGENCY AND FIRST AID PROCEDURES
1. INHALATION: IF INHALED, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION.
2. EYES: IMMEDIATELY FLUSH THOROUGHLY WITH FRESH WATER. GET MEDICAL ATTENTION.
3. SKIN: FLUSH WITH FRESH WATER, WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHES AND SHOES.
4. INGESTION: GIVE WATER, DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE FLUIDS BY MOUTH OR INDUCE VOMITING IN AN UNCONSCIOUS PERSON.

RESPIRATORY PROTECTION: USUALLY NOT REQUIRED, UNLESS BREATHING DIFFICULTY IS EXPERIENCED. — VENTILATION LOCAL: NONE

VENTILATION MECHANICAL: NORMAL AIR DILUTION — SPECIAL: NONE

PROTECTIVE GLOVES: CHEMICALLY RESISTANT

EYE PROTECTION: SAFETY GLASSES, SPLASH GOGGLES, OR FACE SHIELD

OTHER PROTECTIVE CLOTHING/EQUIPMENT: CHEMICALLY RESISTANT CLOTHING AND FOOTWEAR. SAFETY SHOWER/EYE WASH.

HANDLING AND STORAGE PRECAUTIONS: KEEP CONTAINER CLOSED. STORE AWAY FROM OPEN FLAME. KEEP FROM FREEZING. DO NOT MIX WITH ACID. DO NOT STORE WITH FOOD.

OTHER PRECAUTIONS: DOT CLASS: NOT REGULATED.
VOLUNTARY; CAUTIONS LISTED ON CONTAINER LABEL.

IF MATERIAL IS RELEASED/SPILLED: CAUSES VERY SLIPPERY SURFACES IF SPILLED. CONTAIN SPILL, MOP UP OR DILUTE WITH WATER, AND DISCHARGE TO A SANITARY SEWER.
LARGE AMOUNTS SHOULD BE PACKAGED AND DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.

WASTE DISPOSAL METHODS: USE UNTIL LESS THAN ONE INCH REMAINS IN CONTAINER, EMPTY CONTAINER. TRIPLE RINSE CONTAINER WITH WATER, ADD TO OPERATION. REMOVE OR DEFACE CONTAINER LABEL BEFORE SELLING OR DISPOSAL. SOLUTIONS MAY BE TOXIC TO FISH OR AQUATIC LIFE. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. CONTAINS NO PHOSPHORUS.

HMIS RATING: HEALTH 2 — FLAMMABILITY 1 — REACTIVITY 0 — PERSONAL PROTECTION B

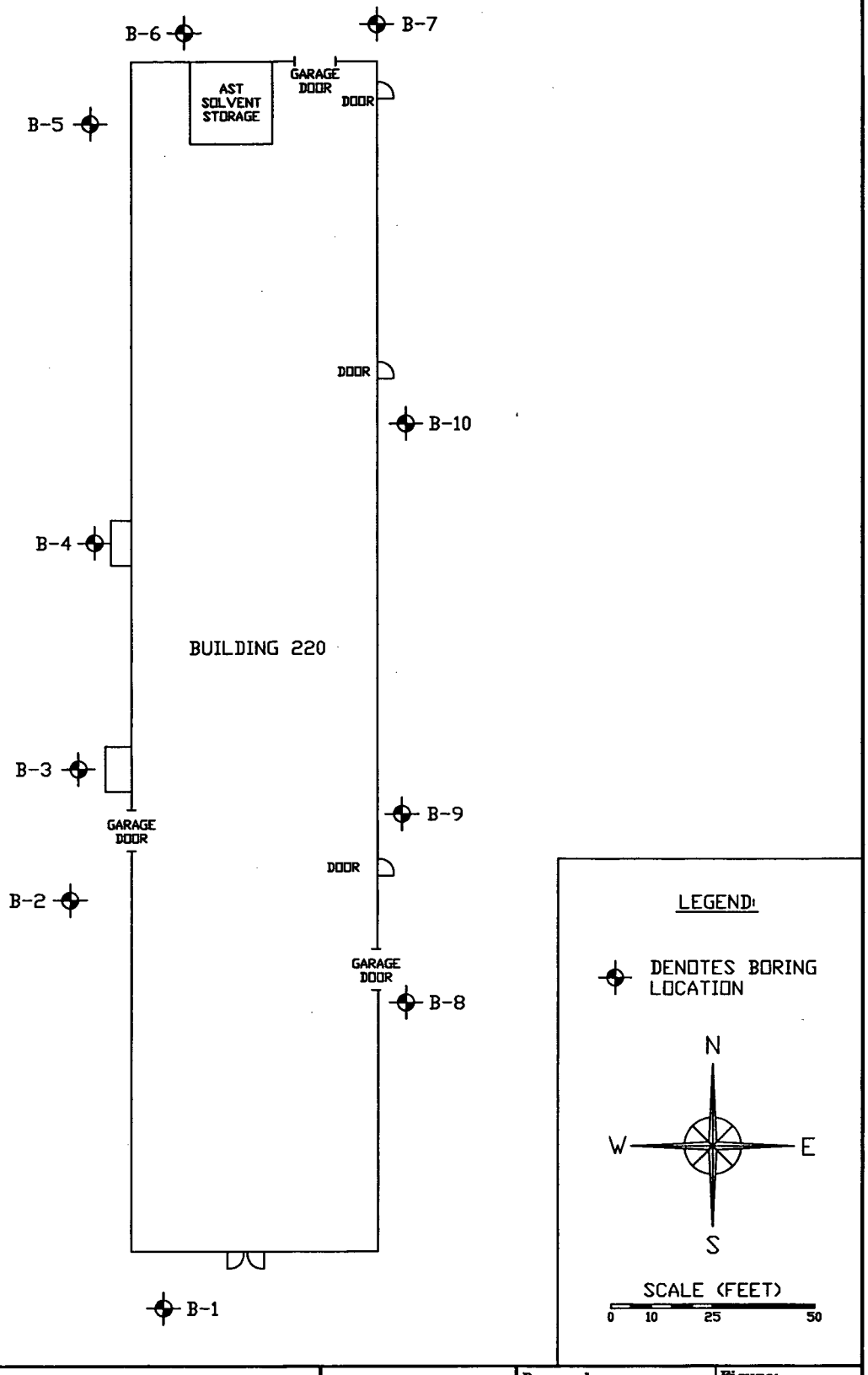
ALL CHEMICAL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY.

ISOPROPYL ALCOHOL - CAS #67-63-0
WATER CAS #7732-18-5
SODIUM SULFATE - CAS #7757-82-6
POLYETHOXY QUATERNARY - CAS #68410-69-5
METHYL SULFATE
SODIUM DIAMINOSTILBENE SULFONATE - CAS #7336-26-1

PA

APPENDIX D: SUBSURFACE SOIL INVESTIGATION

D.1 SOIL BORING LOCATION MAP



Title:	SITE MAP SHOWING BORING LOCATIONS	Issued: 2/07/05	Drawn by: BH	Figure: D.1
Site:	GREAT LAKES NAVAL CENTER: BUILDING 220	Revised:	EDI proj. no. 421.022.03	Scale: See Above
Client:	TENG & ASSOCIATES			

ENVIRONMENTAL DESIGN INTERNATIONAL inc.
200 SOUTH MICHIGAN AVE. SUITE 700
CHICAGO, IL 60604 PHONE: (312) 356-5400

D.2 VOCs SOIL ANALYTICAL RESULTS vs. TIER 1 SROs

Table 1. VOC Soil Analytical Results vs. Tier 1 Soil Remediation Objectives (SROs)

ANALYTE	Soil Remediation Objectives								February 3, 2005					
	Residential		Industrial/Commercial		Construction Worker		Mig. To GW		B-1	B-1	B-2	B-2	B-3	B-3
	Ingestion mg/kg	Inhalation mg/kg	Ingestion mg/kg	Inhalation mg/kg	Ingestion mg/kg	Inhalation mg/kg	Class I mg/kg	Class II mg/kg	3 feet	7 feet	3 feet	5 feet	1 feet	9 feet
									mg/kg					
1,1,1-trichloroethane	N.S.[c]	1,200[d]	[c]	1,200[d]	NS	1,200[d]	2	9.6	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
1,1,2,2-Tetrachloroethane	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
1,1,2-trichloroethane	310[b]	1,800[d]	8,200[b]	1,800[d]	8,200[b]	1,800[d]	0.02	0.3	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
1,1-Dichloroethane	7,800[b]	1,300[b]	200,000[b]	1,700[d]	200,000[b]	130[b]	23[b]	110	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
1,1-Dichloroethene	700[b]	1,500[d]	18,000[b]	1,500[d]	1800[b]	300[v]	0.06	0.3	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
1,2-Dichloroethane	7[e]	0.4[e]	63[e]	0.70[e]	1,400[e]	0.99[e]	0.02	0.1	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
1,2-Dichloropropane	9[e]	15[b]	84[e]	23[b]	1,800[e]	0.5[b]	0.03	0.15	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
2-Butanone (methyl ethyl ketone)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.00341	<0.00275	0.0035	<0.00360	<0.00408	<0.00368
2- Hexanone (methyl butyl ketone)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.00341	<0.00275	<0.00321	<0.00360	<0.00408	<0.00368
Hexone (4-Methyl-2-pentanone)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.00341	<0.00275	<0.00321	<0.00360	<0.00408	<0.00368
Acetone	7,800[b]	100,000[d]	200,000[b]	100,000[b]	200,000[b]	100,000[d]	16[b]	16	0.0342	<0.0275	<0.0321	<0.036	<0.0408	<0.0368
Benzene	22[e]	0.8	100[e]	1.6[e]	2,300[e]	2.2[e]	0.03	0.17	0.0002 J	0.00035J	0.0006 J	0.0012	0.00037 J	0.0012
Bromodichloromethane	10[e]	3,000[d]	92[e]	3,000[d]	2,000[e]	3,000[d]	0.6	0.6	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Bromoform	81[e]	53[e]	720[e]	100[e]	16,000[e]	140[e]	0.8	0.8	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Bromomethane (methyl bromide)	110[b]	10[b]	2,900[b]	15[b]	1,000b	3.9b	0.2[b]	1.2	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Carbon Disulfide	7,800[b]	720[d]	200,000[b]	720[d]	20,000[b]	9[b]	32[b]	160	0.00125	<0.000549	<0.000643	<0.000720	0.00232	<0.000736
Carbon Tetrachloride	5[e]	0.3[e]	44[e]	0.64[e]	410[b]	0.9[e]	0.07	0.33	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Chlorobenzene	1,600[b]	130[b]	41,000[b]	210[b]	4,100[b]	1.3[b]	1	6.5	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Chloroethane (ethyl chloride)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Chloroform	100[e]	0.3[e]	940[e]	0.54[e]	2,000[b]	0.76[e]	0.6	2.9	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Chloromethane (methyl chloride)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	0.00151	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
cis 1,2-Dichloroethene	780[b]	1,200[d]	20,000[b]	1,200[d]	20,000[b]	1,200[d]	0.4	1.1	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
cis-1,3-Dichloropropene	4[e]	0.1[e]	57[e]	2.1[e]	1,200[e]	0.39[b]	0.004[e]	0.02	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Dibromochloromethane	1,600[b]	1,300[d]	41,000[b]	1,300[d]	41,000[b]	1,300[d]	0.4	0.4	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Ethylbenzene	7,800[b]	400[d]	200,000[b]	400[d]	20,000[b]	58[b]	13	19	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	0.000825
m,p-Xylene	160,000[b]	420[d]	1,000,000	420[d]	410,000[b]	420[d]	200	200	<0.00136	<0.0011	<0.00129	<0.00144	<0.00163	<0.00147
Methyl Tertiary-Butyl Ether	780[b]	8,800[d]	20,000[b]	8,800[d]	2,000[b]	140[b]	0.32	0.32	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Methylene Chloride	85[e]	13[e]	760[e]	24[e]	12,000[b]	34[e]	0.02[e]	0.2	<0.00341	<0.00275	<0.00321	<0.0036	<0.00408	<0.00368
o-Xylene	160,000[b]	410[b]	1,000,000	410[d]	410,000[b]	410[d]	190	190	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Styrene	16,000[b]	1,500[d]	410,000[b]	1,500[d]	41,000[b]	430[b]	4	18	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Tetrachloroethene	12[e]	11[e]	110[e]	20[e]	2,400[e]	28[e]	0.06	0.3	<0.000682	<0.000549	0.000797	0.00227	<0.000815	<0.000736
Toluene	16,000[b]	650[d]	410,000[b]	650[d]	410,000[b]	42[b]	12	29	<0.000682	<0.000549	<0.000643	0.00192	<0.000815	0.00221
trans-1,2-Dichloroethene	1,600[b]	3,100[d]	41,000[b]	3,100[d]	41,000[b]	3,100[d]	0.7	3.4	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
trans-1,3-Dichloropropene	4[e]	0.1[e]	57[e]	2.1[e]	1,200[e]	0.39[b]	0.004[e]	0.02	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Trichloroethene	58[e]	5[e]	520[e]	8.9[e]	1,200[b]	12[e]	0.06	0.3	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736
Vinyl Chloride	0.46[e]	0.28[e]	7.9[e]	1.1[e]	170[e]	1.1[b]	0.01[f]	0.07	<0.000682	<0.000549	<0.000643	<0.000720	<0.000815	<0.000736

VOCs not listed above were either not found in concentrations above laboratory detection limits or are not regulated by IEPA TACO Tier 1 SRO's.
Results in **bold** exceed a Tier 1 Soil Remediation Objective.
Soil Remediation Objectives (SROs) based on the Tiered Approach to Corrective Action Objectives: Title 35 Part 742, Appendix B, Tables A and B.
N.A. = Not applicable N.S. = No Standard

Laboratory Data Qualifiers
J = Estimated or analyte detected below quantitation limit

Chemical Name and Soil Remediation Objective Notations
b = Calculated values correspond to a target hazard quotient of 1.
c = No toxicity criteria available for the route of exposure.
d = Soil saturation concentration (csat) = the concentration at which the absorptive limits of the soil particles, the solubility limits of the available soil moisture, and saturation of soil pore air have been reached. Above the soil saturation concentration, the assumptions regarding vapor transport to air and/or dissolved phase transport to groundwater (for chemicals which are liquid at ambient soil temperatures) have been violated, and alternative modeling approaches are required.
e = Calculated values correspond to a cancer risk level of 1 in 1,000,000.
f = Level is at or below Contract Laboratory Program required quantitation limit for Regular Analytical Services (RAS).
v = Calculated values correspond to soil concentrations that should not result in air concentration that exceed criteria for workplace air

Table 1. VOC Soil Analytical Results vs. Tier 1 Soil Remediation Objectives (SROs)

ANALYTE	Soil Remediation Objectives								February 3, 2005						
	Residential		Industrial/Commercial		Construction Worker		Mig. To GW		B-4	B-4	B-5	B-5	B-6	B-6	B-7
	Ingestion mg/kg	Inhalation mg/kg	Ingestion mg/kg	Inhalation mg/kg	Ingestion mg/kg	Inhalation mg/kg	Class I mg/kg	Class II mg/kg	3 feet	5 feet	2 feet	7 feet	3 feet	8 feet	2 feet
									mg/kg						
1,1,1-trichloroethane	N.S.[c]	1,200[d]	[c]	1,200[d]	NS	1,200[d]	2	9.6	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775
1,1,2,2-Tetrachloroethane	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775
1,1,2-trichloroethane	310[b]	1,800[d]	8,200[b]	1,800[d]	8,200[b]	1,800[d]	0.02	0.3	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775
1,1-Dichloroethane	7,800[b]	1,300[b]	200,000[b]	1,700[d]	200,000[b]	130[b]	23[b]	110	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775
1,1-Dichloroethene	700[b]	1,500[d]	18,000[b]	1,500[d]	1800[b]	300[v]	0.06	0.3	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775
1,2-Dichloroethane	7[e]	0.4[e]	63[e]	0.70[e]	1,400[e]	0.99[e]	0.02	0.1	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775
1,2-Dichloropropane	9[e]	15[b]	84[e]	23[b]	1,800[e]	0.5[b]	0.03	0.15	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775
2-Butanone (methyl ethyl ketone)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.00342	<0.00354	0.00377	<0.00318	<0.00429	<0.00383	0.00499
2- Hexanone (methyl butyl ketone)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.00342	<0.00354	<0.0032	<0.00318	<0.00429	<0.00383	<0.00387
Hexone (4-Methyl-2-pentanone)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.00342	<0.00354	<0.0032	<0.00318	<0.00429	<0.00383	<0.00387
Acetone	7,800[b]	100,000[d]	200,000[b]	100,000[b]	200,000[b]	100,000[d]	16[b]	16	<0.0342	<0.0354	<0.032	<0.0318	<0.0429	<0.0383	0.0434
Benzene	22[e]	0.8	100[e]	1.6[e]	2,300[e]	2.2[e]	0.03	0.17	<0.000217	0.000757	<0.000203	0.00043 J	<0.000272	<0.000243	0.0004 J
Bromodichloromethane	10[e]	3,000[d]	92[e]	3,000[d]	2,000[e]	3,000[d]	0.6	0.6	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000776	<0.000775
Bromoform	81[e]	53[e]	720[e]	100[e]	16,000[e]	140[e]	0.8	0.8	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000776	<0.000775
Bromomethane (methyl bromide)	110[b]	10[b]	2,900[b]	15[b]	1,000b	3.9b	0.2[b]	1.2	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000776	<0.000775
Carbon Disulfide	7,800[b]	720[d]	200,000[b]	720[d]	20,000[b]	9[b]	32[b]	160	0.00176	<0.000708	0.00175	<0.000637	<0.000859	<0.000776	0.00308
Carbon Tetrachloride	5[e]	0.3[e]	44[e]	0.64[e]	410[b]	0.9[e]	0.07	0.33	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000776	<0.000775
Chlorobenzene	1,600[b]	130[b]	41,000[b]	210[b]	4,100[b]	1.3[b]	1	6.5	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000776	<0.000775
Chloroethane (ethyl chloride)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000776	<0.000775
Chloroform	100[e]	0.3[e]	940[e]	0.54[e]	2,000[b]	0.76[e]	0.6	2.9	<0.000685	<0.000708	<0.000640	<0.000637	0.00432	<0.000776	0.0033
Chloromethane (methyl chloride)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000776	<0.000775
cis 1,2-Dichloroethene	780[b]	1,200[d]	20,000[b]	1,200[d]	20,000[b]	1,200[d]	0.4	1.1	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000776	<0.000775
cis-1,3-Dichloropropene	4[e]	0.1[e]	57[e]	2.1[e]	1,200[e]	0.39[b]	0.004[e]	0.02	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000776	<0.000775
Dibromochloromethane	1,600[b]	1,300[d]	41,000[b]	1,300[d]	41,000[b]	1,300[d]	0.4	0.4	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000776	<0.000775
Ethylbenzene	7,800[b]	400[d]	200,000[b]	400[d]	20,000[b]	58[b]	13	19	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000776	<0.000775
m,p-Xylene	160,000[b]	420[d]	1,000,000	420[d]	410,000[b]	420[d]	200	200	<0.00137	<0.00142	<0.00128	<0.00127	<0.00172	<0.00153	<0.00155
Methyl Tertiary-Butyl Ether	780[b]	8,800[d]	20,000[b]	8,800[d]	2,000[b]	140[b]	0.32	0.32	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000776	<0.000775
Methylene Chloride	85[e]	13[e]	760[e]	24[e]	12,000[b]	34[e]	0.02[e]	0.2	<0.00342	<0.00354	<0.00320	<0.00318	<0.00429	<0.00383	<0.00387
o-Xylene	160,000[b]	410[b]	1,000,000	410[d]	410,000[b]	410[d]	190	190	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775
Styrene	16,000[b]	1,500[d]	410,000[b]	1,500[d]	41,000[b]	430[b]	4	18	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775
Tetrachloroethene	12[e]	11[e]	110[e]	20[e]	2,400[e]	28[e]	0.06	0.3	0.00432	0.00177	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775
Toluene	16,000[b]	650[d]	410,000[b]	650[d]	410,000[b]	42[b]	12	29	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775
trans-1,2-Dichloroethene	1,600[b]	3,100[d]	41,000[b]	3,100[d]	41,000[b]	3,100[d]	0.7	3.4	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775
trans-1,3-Dichloropropene	4[e]	0.1[e]	57[e]	2.1[e]	1,200[e]	0.39[b]	0.004[e]	0.02	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775
Trichloroethene	58[e]	5[e]	520[e]	8.9[e]	1,200[b]	12[e]	0.06	0.3	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775
Vinyl Chloride	0.46[e]	0.28[e]	7.9[e]	1.1[e]	170[e]	1.1[b]	0.01[f]	0.07	<0.000685	<0.000708	<0.000640	<0.000637	<0.000859	<0.000766	<0.000775

VOCs not listed above were either not found in concentrations above laboratory detection limits or are not regulated by IEPA TACO Tier 1 SRO's.
Results in **bold** exceed a Tier 1 Soil Remediation Objective.
Soil Remediation Objectives (SROs) based on the Tiered Approach to Corrective Action Objectives: Title 35 Part 742, Appendix B, Tables A and B.
N.A. = Not applicable N.S. = No Standard

Laboratory Data Qualifiers
J = Estimated or analyte detected below quantitation limit

Chemical Name and Soil Remediation Objective Notations
b = Calculated values correspond to a target hazard quotient of 1.
c = No toxicity criteria available for the route of exposure.
d = Soil saturation concentration (csat) = the concentration at which the absorptive limits of the soil particles, the solubility limits of the available soil moisture, and saturation of soil pore air have been reached. Above the soil saturation concentration, the assumptions regarding vapor transport to air and/or dissolved phase transport to groundwater (for chemicals which are liquid at ambient soil temperatures) have been violated, and alternative modeling approaches are required.
e = Calculated values correspond to a cancer risk level of 1 in 1,000,000.
f = Level is at or below Contract Laboratory Program required quantitation limit for Regular Analytical Services (RAS).
v = Calculated values correspond to soil concentrations that should not result in air concentration that exceed criteria for workplace air

Table 1. VOC Soil Analytical Results vs. Tier 1 Soil Remediation Objectives (SROs)

ANALYTE	Soil Remediation Objectives								February 3, 2005						
	Residential		Industrial/Commercial		Construction Worker		Mig. To GW		B-7	B-8	B-8	B-9	B-9	B-10	B-10
	Ingestion mg/kg	Inhalation mg/kg	Ingestion mg/kg	Inhalation mg/kg	Ingestion mg/kg	Inhalation mg/kg	Class I mg/kg	Class II mg/kg	8 feet	3 feet	6 feet	3 feet	10 feet	2 feet	9 feet
									mg/kg						
1,1,1-trichloroethane	N.S.[c]	1,200[d]	[c]	1,200[d]	NS	1,200[d]	2	9.6	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
1,1,2,2-Tetrachloroethane	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
1,1,2-trichloroethane	310[b]	1,800[d]	8,200[b]	1,800[d]	8,200[b]	1,800[d]	0.02	0.3	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
1,1-Dichloroethane	7,800[b]	1,300[b]	200,000[b]	1,700[d]	200,000[b]	130[b]	23[b]	110	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
1,1-Dichloroethene	700[b]	1,500[d]	18,000[b]	1,500[d]	1800[b]	300[v]	0.06	0.3	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
1,2-Dichloroethane	7[e]	0.4[e]	63[e]	0.70[e]	1,400[e]	0.99[e]	0.02	0.1	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
1,2-Dichloropropane	9[e]	15[b]	84[e]	23[b]	1,800[e]	0.5[b]	0.03	0.15	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
2-Butanone (methyl ethyl ketone)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.00337	<0.00287	<0.00403	0.00872	<0.00340	<0.00362	<0.00393
2- Hexanone (methyl butyl ketone)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.00337	<0.00287	<0.00403	<0.00362	<0.00340	<0.00362	<0.00393
Hexone (4-Methyl-2-pentanone)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.00337	<0.00287	<0.00403	<0.00362	<0.00340	<0.00362	<0.00393
Acetone	7,800[b]	100,000[d]	200,000[b]	100,000[b]	200,000[b]	100,000[d]	16[b]	16	<0.0337	<0.0287	<0.0403	0.0876	<0.034	<0.0362	<0.0393
Benzene	22[e]	0.8	100[e]	1.6[e]	2,300[e]	2.2[e]	0.03	0.17	<0.000214	<0.000182	<0.000255	<0.000230	0.00033 J	0.00067 J	0.00052 J
Bromodichloromethane	10[e]	3,000[d]	92[e]	3,000[d]	2,000[e]	3,000[d]	0.6	0.6	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
Bromoform	81[e]	53[e]	720[e]	100[e]	16,000[e]	140[e]	0.8	0.8	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
Bromomethane (methyl bromide)	110[b]	10[b]	2,900[b]	15[b]	1,000b	3.9b	0.2[b]	1.2	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
Carbon Disulfide	7,800[b]	720[d]	200,000[b]	720[d]	20,000[b]	9[b]	32[b]	160	<0.000674	<0.000574	<0.000806	0.00169	<0.000679	0.00495	<0.000786
Carbon Tetrachloride	5[e]	0.3[e]	44[e]	0.64[e]	410[b]	0.9[e]	0.07	0.33	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
Chlorobenzene	1,600[b]	130[b]	41,000[b]	210[b]	4,100[b]	1.3[b]	1	6.5	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
Chloroethane (ethyl chloride)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
Chloroform	100[e]	0.3[e]	940[e]	0.54[e]	2,000[b]	0.76[e]	0.6	2.9	<0.000674	<0.000574	0.000935	<0.000724	<0.000679	<0.000723	<0.000786
Chloromethane (methyl chloride)	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
cis 1,2-Dichloroethene	780[b]	1,200[d]	20,000[b]	1,200[d]	20,000[b]	1,200[d]	0.4	1.1	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
cis-1,3-Dichloropropene	4[e]	0.1[e]	57[e]	2.1[e]	1,200[e]	0.39[b]	0.004[e]	0.02	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
Dibromochloromethane	1,600[b]	1,300[d]	41,000[b]	1,300[d]	41,000[b]	1,300[d]	0.4	0.4	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
Ethylbenzene	7,800[b]	400[d]	200,000[b]	400[d]	20,000[b]	58[b]	13	19	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
m,p-Xylene	160,000[b]	420[d]	1,000,000	420[d]	410,000[b]	420[d]	200	200	<0.00135	<0.00115	<0.00161	<0.0145	<0.00136	<0.00145	<0.00157
Methyl Tertiary-Butyl Ether	780[b]	8,800[d]	20,000[b]	8,800[d]	2,000[b]	140[b]	0.32	0.32	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
Methylene Chloride	85[e]	13[e]	760[e]	24[e]	12,000[b]	34[e]	0.02[e]	0.2	<0.00337	<0.00287	<0.00403	<0.00362	<0.00340	<0.00362	<0.00393
o-Xylene	160,000[b]	410[b]	1,000,000	410[d]	410,000[b]	410[d]	190	190	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
Styrene	16,000[b]	1,500[d]	410,000[b]	1,500[d]	41,000[b]	430[b]	4	18	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
Tetrachloroethene	12[e]	11[e]	110[e]	20[e]	2,400[e]	28[e]	0.06	0.3	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	0.00427	<0.000786
Toluene	16,000[b]	650[d]	410,000[b]	650[d]	410,000[b]	42[b]	12	29	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
trans-1,2-Dichloroethene	1,600[b]	3,100[d]	41,000[b]	3,100[d]	41,000[b]	3,100[d]	0.7	3.4	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
trans-1,3-Dichloropropene	4[e]	0.1[e]	57[e]	2.1[e]	1,200[e]	0.39[b]	0.004[e]	0.02	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
Trichloroethene	58[e]	5[e]	520[e]	8.9[e]	1,200[b]	12[e]	0.06	0.3	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786
Vinyl Chloride	0.46[e]	0.28[e]	7.9[e]	1.1[e]	170[e]	1.1[b]	0.01[f]	0.07	<0.000674	<0.000574	<0.000806	<0.000724	<0.000679	<0.000723	<0.000786

VOCs not listed above were either not found in concentrations above laboratory detection limits or are not regulated by IEPA TACO Tier 1 SRO's.
Results in **bold** exceed a Tier 1 Soil Remediation Objective.
Soil Remediation Objectives (SROs) based on the Tiered Approach to Corrective Action Objectives: Title 35 Part 742, Appendix B, Tables A and B.
N.A. = Not applicable N.S. = No Standard

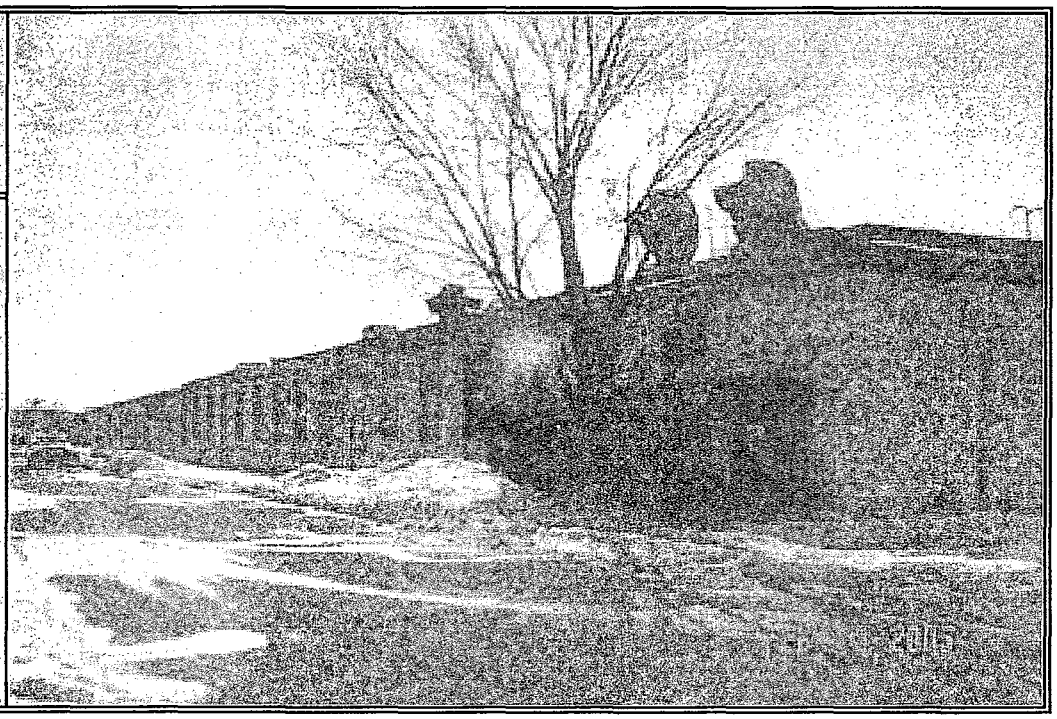
Laboratory Data Qualifiers
J = Estimated or analyte detected below quantitation limit

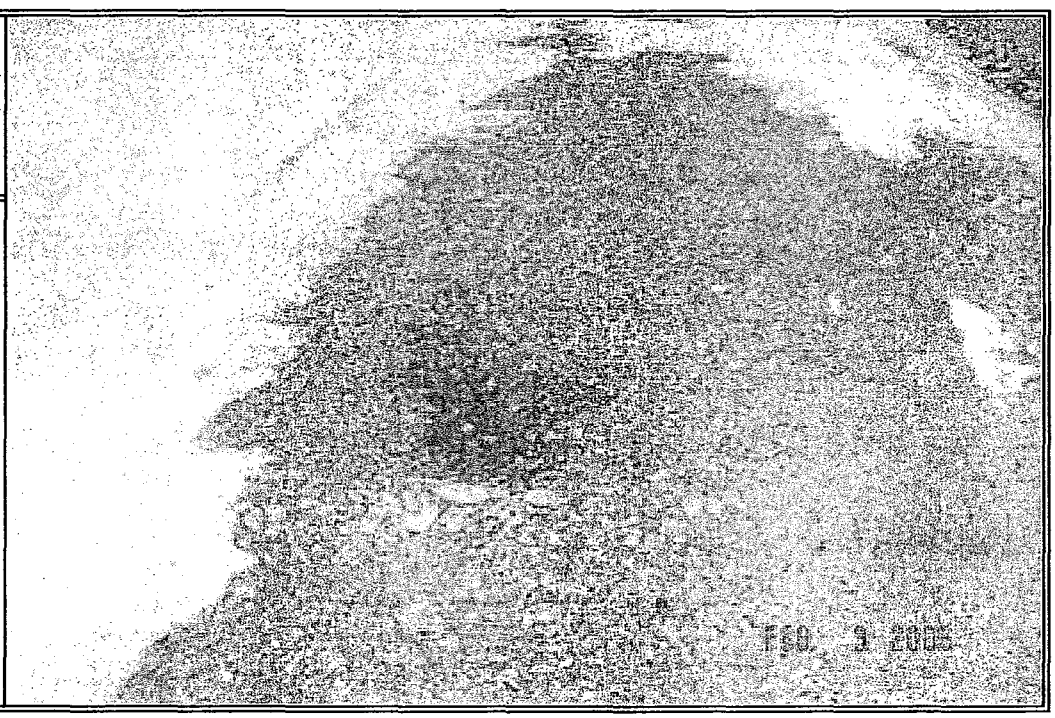
Chemical Name and Soil Remediation Objective Notations
b = Calculated values correspond to a target hazard quotient of 1.
c = No toxicity criteria available for the route of exposure.
d = Soil saturation concentration (csat) = the concentration at which the absorptive limits of the soil particles, the solubility limits of the available soil moisture, and saturation of soil pore air have been reached. Above the soil saturation concentration, the assumptions regarding vapor transport to air and/or dissolved phase transport to groundwater (for chemicals which are liquid at ambient soil temperatures) have been violated, and alternative modeling approaches are required.
e = Calculated values correspond to a cancer risk level of 1 in 1,000,000.
f = Level is at or below Contract Laboratory Program required quantitation limit for Regular Analytical Services (RAS).
v = Calculated values correspond to soil concentrations that should not result in air concentration that exceed criteria for workplace air

D.3 SOIL INVESTIGATION PHOTOLOG

PHOTOGRAPH LOG

Project Name	Great Lakes Naval Center: Building 220

Proj: 421.022.03 Date: 2/4/05 Photographed By: Hilary Janousek Description: View of Building 220 as seen from the northeast corner of the subject property PHOTO #1	

Proj: 421.022.03 Date: 2/4/05 Photographed By: Hilary Janousek Description: View of stained gravel near the garage door located on the north side of Building 220 (near soil boring B-6) PHOTO #2	

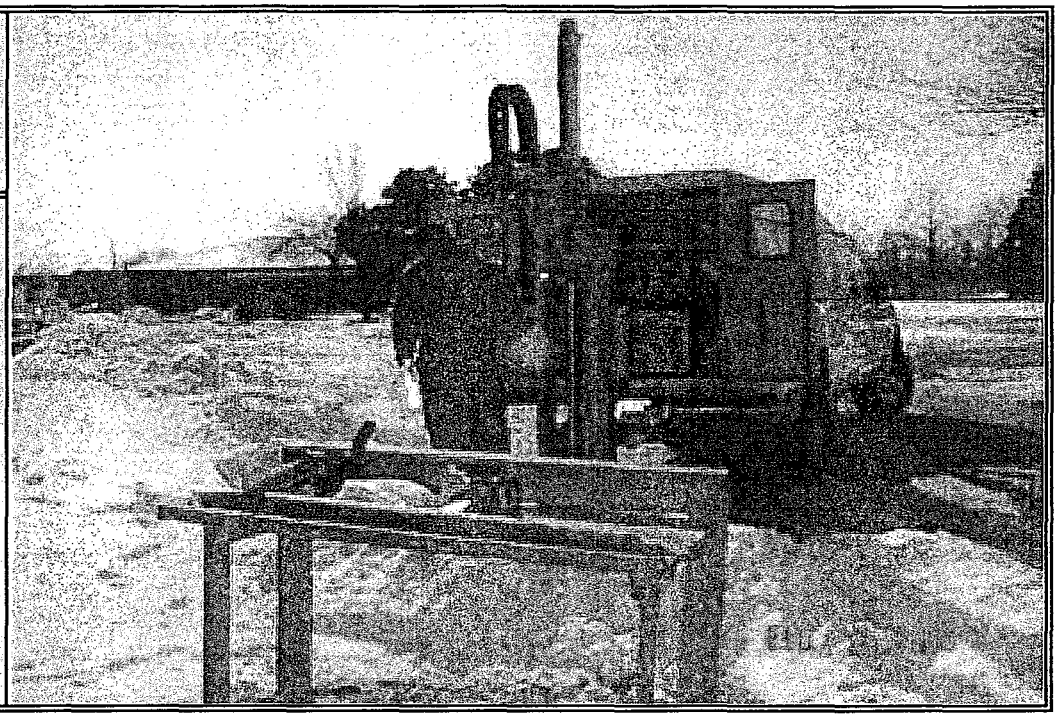
PHOTOGRAPH LOG

Project Name	Great Lakes Naval Center: Building 220

Proj: 421.022.03
Date: 2/4/05
Photographed By:
Hilary Janousek

Description:
View of drilling activities on the west side of the building

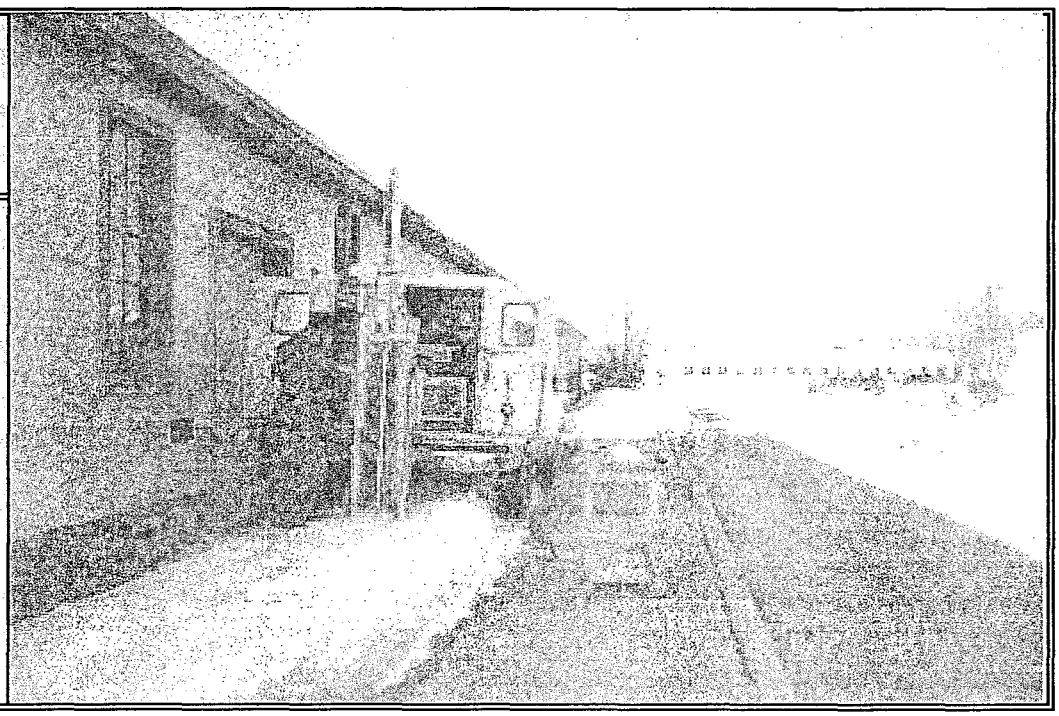
PHOTO #3



Proj: 421.022.03
Date: 2/4/05
Photographed By:
Hilary Janousek

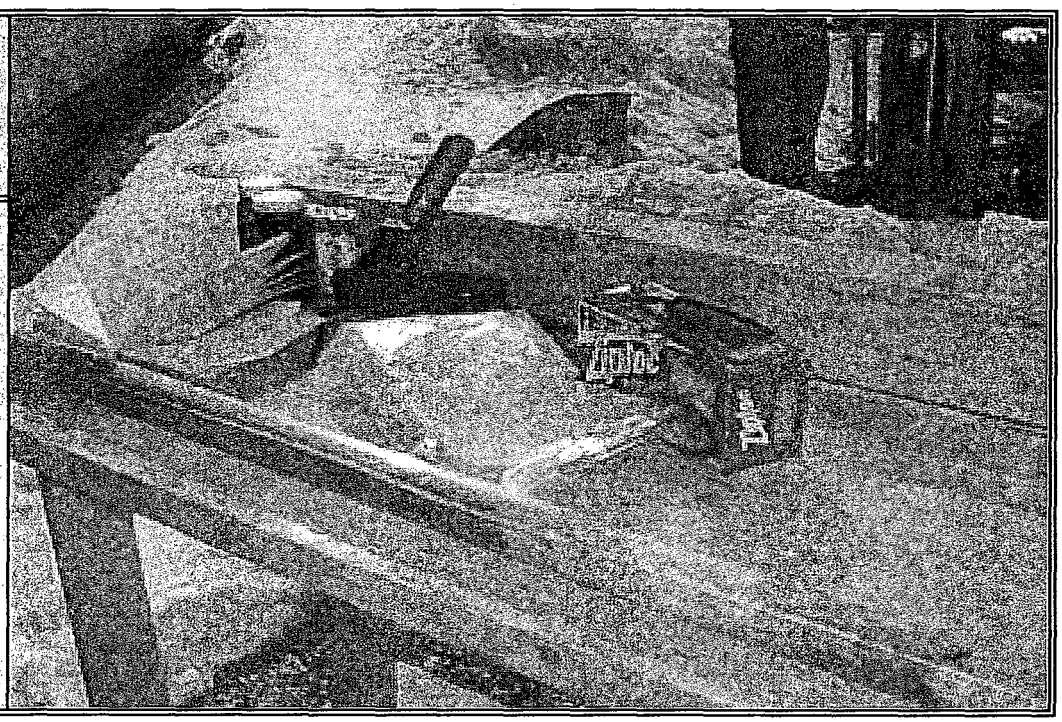
Description:
View of drilling activities along the east side of the building

PHOTO #4



PHOTOGRAPH LOG

Project Name	Great Lakes Naval Center: Building 220

Proj: 421.022.03 Date: 2/4/05 Photographed By: Hilary Janousek	
Description: View of soil core, log book and other sampling equipment PHOTO #5	

D.4 SOIL BORING LOGS

Environmental Design International

LOG OF BORING B-1

Teng and Associates
205 N. Michigan Avenue
Chicago, Illinois

Great Lakes Naval Center: Building 220

Date Completed: : 2/3/05
Drilling Method: : Geo Probe
Driller: : Enviro-clean
EDI Personnel: : HJ
Sampling Method: : Continuous

Sampled By: : HJ
Project Number: : 421.022.03

Depth in feet	USCS	GRAPHIC	Water Levels	DESCRIPTION	Probe Recovery (inches)	PID Reading (ppm)	REMARKS
0	GW/CL			6" Dark brown sand with gravel 6" Dark brown silty sand 8" White sand and gravel 4" Brown and gray mottled silty clay	24	0.0	Sample collected at 3 feet
4	ML			4" Brown and gray mottled silty clay 26" Brown and gray mottled clayey silt with traces of gravel 18" Brown and gray mottled silt (moist at 8 feet)	48	0.0	Sample collected at 7 feet
8	ML			24" Brown silt (saturated) 18" Brown silt with traces of gravel 6" Gray clayey silt	48	0.0	End of Boring at 12 feet

0 1 2 3 4 5 6 7 8 9 10 11 12

02-08-2005 Z:\NAVY SOIL BORINGS\B1.BOR

Environmental Design International

LOG OF BORING B-2

Teng and Associates
205 N. Michigan Avenue
Chicago, Illinois

Great Lakes Naval Center: Building 220

Date Completed: : 2/3/05
Drilling Method: : Geo Probe
Driller: : Enviro-clean
EDI Personnel: : HJ
Sampling Method: : Continuous

Sampled By: : HJ
Project Number: : 421.022.03

Depth in feet	USCS	GRAPHIC	Water Levels	DESCRIPTION	Probe Recovery (inches)	PID Reading (ppm)	REMARKS
0	GW			12" White and gray sand with gravel 12" Brown sand with traces of gravel (moist)	24	0.0	
1							
2							
3							Sample collected at 3 feet
4	ML			6" Brown sand with traces of gravel 42" Brown and gray mottled clayey silt with traces of gravel (moist at 5 to 6 ft)	48	0.0	
5							Sample collected at 5 feet
6							
7							
8	ML			48" Brown clayey silt with traces of gravel (moist at 8 to 9 ft)	48	0.0	
9							
10							
11							End of Boring at 12 feet
12							

02-08-2005 Z:\NAVY SOIL BORINGS\B2.BOR

Environmental Design International

LOG OF BORING B-3

Teng and Associates
205 N. Michigan Avenue
Chicago, Illinois

Great Lakes Naval Center: Building 220

Date Completed: : 2/3/05
Drilling Method: : Geo Probe
Driller: : Enviro-clean
EDI Personnel: : HJ
Sampling Method: : Continuous

Sampled By: : HJ
Project Number: : 421.022.03

Depth in feet	USCS	GRAPHIC	Water Levels	DESCRIPTION	Probe Recovery (inches)	PID Reading (ppm)	REMARKS
0				6" White and gray sand and gravel			
1				18" Black, brown and gray (with some red) clayey silt with traces of gravel			Sample collected at 1 foot
				24" Brown with gray mottled clayey silt with traces of gravel			
2	GW/ML				48	0.0	
3							
4				36" Brown and gray mottled clayey silt with traces of gravel			
5				12" Brown clayey silt with traces of gravel			
6	ML				48	0.0	
7							
8				12" Light brown silty clay (soft)			
				36" Brown clayey silt with traces of gravel			
9							Sample collected at 9 feet
10	ML				48	0.0	
11							
12							End of Boring at 12 feet

02-08-2005 Z:\NAVY SOIL BORINGS\B3.BOR

Environmental Design International

LOG OF BORING B-4

Teng and Associates
205 N. Michigan Avenue
Chicago, Illinois

Great Lakes Naval Center: Building 220

Date Completed: : 2/3/05
Drilling Method: : Geo Probe
Driller: : Enviro-clean
EDI Personnel: : HJ
Sampling Method: : Continuous

Sampled By: : HJ
Project Number: : 421.022.03

Depth in feet	USCS	GRAPHIC	Water Levels	DESCRIPTION	Probe Recovery (inches)	PID Reading (ppm)	REMARKS
0	GW/ML			4" Gray sand and gravel 20" Brown with black silt and traces of gravel 6" Brown and gray clayey silt (soft) with traces of gravel	30	0.0	Sample collected at 3 feet
4	ML			12" Brown and gray clayey silt with traces of gravel (soft) 12" Brown and gray clayey silt with traces of gravel (moist) 12" Brown clayey silt with traces of gravel (moist) 12" Brown clayey silt with traces of gravel	48	0.0	Sample collected at 5 feet
8	ML/CL			24" Light brown clayey silt with traces of gravel (moist) 12" Brown clayey silt (stiff) 12" Gray silty clay (soft)	48	0.0	End of Boring at 12 feet

02-08-2005 Z:\NAVY SOIL BORINGS\B4.BOR

Environmental Design International

LOG OF BORING B-5

Teng and Associates
205 N. Michigan Avenue
Chicago, Illinois

Great Lakes Naval Center: Building 220

Date Completed: : 2/3/05
Drilling Method: : Geo Probe
Driller: : Enviro-clean
EDI Personnel: : HJ
Sampling Method: : Continuous

Sampled By: : HJ
Project Number: : 421.022.03

Depth in feet	USCS	GRAPHIC	Water Levels	DESCRIPTION	Probe Recovery (inches)	PID Reading (ppm)	REMARKS
0				24" Brown, gray and white sand and gravel			
1				6" Gray silt with traces of gravel 6" Brown and gray mottled clayey silt (stiff)			
				12" Brown and gray mottled clayey silt (moist)			
2	GW/ML				48	0.0	Sample collected at 2 feet
3							
4				48" Brown and gray silt (moist)			
5							
6	ML				48	0.0	
7							Sample collected at 7 feet
8				18" Brown and gray silt (moist)			
9				30" Gray silt (moist)			
10	ML				48	0.0	
11							End of Boring at 12 feet
12							

02-08-2005 Z:\NAVY SOIL BORINGS\B5.BOR

Environmental Design International

LOG OF BORING B-6

Teng and Associates
205 N. Michigan Avenue
Chicago, Illinois

Great Lakes Naval Center: Building 220

Date Completed: : 2/3/05
Drilling Method: : Geo Probe
Driller: : Enviro-clean
EDI Personnel: : HJ
Sampling Method: : Continuous

Sampled By: : HJ
Project Number: : 421.022.03

Depth in feet	USCS	GRAPHIC	Water Levels	DESCRIPTION	Probe Recovery (inches)	PID Reading (ppm)	REMARKS
0	GW/ML			16" Brown sand and gravel (moist) 8" White and gray sand and gravel 12" Dark brown silt 12" Light brown clayey silt (soft)	48	0.0	
1							
2							
3							Sample collected at 3 feet
4	ML			48" Light brown silt (moist)	48	0.0	
5							
6							
7							
8	ML			24" Brown silt (saturated) 12" Brown silt 12" Gray clayey silt with traces of gravel	48	0.0	Sample collected at 8 feet
9							
10							
11							End of Boring at 12 feet
12							

Environmental Design International

LOG OF BORING B-7

Teng and Associates
205 N. Michigan Avenue
Chicago, Illinois

Great Lakes Naval Center: Building 220

Date Completed: : 2/3/05
Drilling Method: : Geo Probe
Driller: : Enviro-clean
EDI Personnel: : HJ
Sampling Method: : Continuous

Sampled By: : HJ
Project Number: : 421.022.03

Depth in feet	USCS	GRAPHIC	Water Levels	DESCRIPTION	Probe Recovery (inches)	PID Reading (ppm)	REMARKS
0				6" Dark brown silt with organics 6" Gray and white sand and gravel			
1				18" Dark brown, black and gray silt with gravel			
				6" Brown and gray with black mottled clayey silt 12" Brown clayey silt			
2	GW/ML				48	0.0	Sample collected at 2 feet
3							
4				48" Brown and gray mottled clayey silt with traces of gravel			
5							
6	ML				48	0.0	
7							
8							Sample collected at 8 feet
				36" Brown and gray clayey silt (saturated)			
9							
10	ML				36	0.0	
11							End of Boring at 12 feet
12							

02-08-2005 Z:\NAVY SOIL BORINGS\B7.BOR

Environmental Design International

LOG OF BORING B-8

Teng and Associates
205 N. Michigan Avenue
Chicago, Illinois

Great Lakes Naval Center: Building 220

Date Completed: : 2/3/05
Drilling Method: : Geo Probe
Driller: : Enviro-clean
EDI Personnel: : HJ
Sampling Method: : Continuous

Sampled By: : HJ
Project Number: : 421.022.03

Depth in feet	USCS	GRAPHIC	Water Levels	DESCRIPTION	Probe Recovery (inches)	PID Reading (ppm)	REMARKS
0				10" Dark brown silt with organics and traces of gravel 2" Fine brown sand			
1				6" Asphalt and sand and gravel mix 6" Dark gray silt with organics			
2	GW				24	0.0	
3							Sample collected at 3 feet
4				24" Brown and gray mottled clayey silt			
5				24" Brown and gray mottled clayey silt (moist)			
6	ML				48	0.0	Sample collected at 6 feet
7							
8				48" Brown clayey silt (moist)			
9							
10	ML				48	0.0	
11							End of Boring at 12 feet
12							

Environmental Design International

LOG OF BORING B-9

Teng and Associates
205 N. Michigan Avenue
Chicago, Illinois

Great Lakes Naval Center: Building 220

Date Completed: : 2/3/05
Drilling Method: : Geo Probe
Driller: : Enviro-clean
EDI Personnel: : HJ
Sampling Method: : Continuous

Sampled By: : HJ
Project Number: : 421.022.03

Depth in feet	USCS	GRAPHIC	Water Levels	DESCRIPTION	Probe Recovery (inches)	PID Reading (ppm)	REMARKS
0				12" Dark brown silt with some organics			
				4" Brown sand			
1				2" Stone			
				18" Brown and gray with red clayey silt			
2	ML				36	0.0	
3							Sample collected at 3 feet
4				18" Brown and gray with black mottled clayey silt			
				30" Brown with gray clayey silt (moist)			
5							
6	ML				48	0.0	
7							
8				42" Brown clayey silt (moist)			
9				6" Gray clayey silt			
10	ML				48	0.0	Sample collected at 10 feet
11							
							End of Boring at 12 feet
12							

Environmental Design International

LOG OF BORING B-10

Teng and Associates
205 N. Michigan Avenue
Chicago, Illinois

Great Lakes Naval Center: Building 220

Date Completed: : 2/3/05
Drilling Method: : Geo Probe
Driller: : Enviro-clean
EDI Personnel: : HJ
Sampling Method: : Continuous

Sampled By: : HJ
Project Number: : 421.022.03

Depth in feet	USCS	GRAPHIC	Water Levels	DESCRIPTION	Probe Recovery (inches)	PID Reading (ppm)	REMARKS
0				6" Dark brown silt with organics 36" Orange brown and gray clayey silt			
1							
2	ML				42	0.0	Sample collected at 2 feet
3							
4				48" Orange brown clayey silt with traces of gravel (moist 5-7 feet)			
5							
6	ML				48	0.0	
7							
8				12" Brown and gray mottled clayey silt (moist) 24" Brown clayey silt with traces of organics			
9				12" Gray with brown clayey silt with traces of organics			Sample collected at 9 feet
10	ML				48	0.0	
11							End of Boring at 12 feet
12							

02-08-2005 Z:\NAVY SOIL BORINGS\B10.BOR

D.5 ANALYTICAL DATA

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587
www.SuburbanLabs.com

February 11, 2005

Hilary Janousek
Environmental Design International Inc.
200 S. Michigan Ave
Suite 700
Chicago, Illinois 60604

Tel: (312) 356-5400
Fax: (312) 356-5499

Lab Order: **05020165**

Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220

Dear Hilary Janousek:

Suburban Laboratories, Inc. received 20 sample(s) on 2/4/05 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call your customer service representative at (708) 544-3260.

Sincerely,

Jason C. Thomas

Jason Thomas
Project Mgr, IT Admin

cc:

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587
www.SuburbanLabs.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

Client ID: Environmental Design International Inc.
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220
Lab Order: **05020165**
Chain of Custody # 19975, 77
Temperature of samples upon receipt in our Lab: 2 °C

Date: February 11, 2005
PO #:
QC Level: Level I

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.

Abbreviations:
- Reporting Limit: The reporting limit is designed to be the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- In Laboratory: EPA recommends this analyte be analyzed "immediately" (e.g., tests that should be performed in the field within 15 minutes of collection). Analytes with "immediate" hold times are analyzed as soon as possible upon receipt by the laboratory.
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Project Specific Comments:

Suburban Laboratories, Inc.

4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005

Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

Client Sample ID: B1 - 3' **Matrix:** SOIL

Lab ID: 05020165-01 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 9:55 AM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
1,1,2,2-Tetrachloroethane	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
1,1,2-Trichloroethane	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
1,1-Dichloroethane	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
1,1-Dichloroethene	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
1,2-Dichloroethane	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
1,2-Dichloropropane	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
2-Butanone	ND		3.41	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
2-Hexanone	ND		3.41	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
4-Methyl-2-pentanone	ND		3.41	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Acetone	34.2		34.1	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Benzene	0.22	J	0.216	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Bromodichloromethane	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Bromoform	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Bromomethane	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Carbon disulfide	1.25		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Carbon tetrachloride	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Chlorobenzene	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Chloroethane	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Chloroform	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Chloromethane	1.51		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
cis-1,2-Dichloroethene	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
cis-1,3-Dichloropropene	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Dibromochloromethane	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Ethylbenzene	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
m,p-Xylene	ND		1.36	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Methyl tert-butyl ether	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Methylene chloride	ND		3.41	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
o-Xylene	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Styrene	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Tetrachloroethene	ND		0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

Bas=Report-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
trans-1,2-Dichloroethene	ND	0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
trans-1,3-Dichloropropene	ND	0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Trichloroethene	ND	0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Vinyl chloride	ND	0.682	µg/Kg-dry	0.54	02/07/2005 6:51 PM	R39922
Surrogate: 4-Bromofluorobenzene	93.3	61.55 - 121	%REC	0.54	02/07/2005 6:51 PM	R39922
Surrogate: Dibromofluoromethane	97.0	71.4 - 147	%REC	0.54	02/07/2005 6:51 PM	R39922
Surrogate: Toluene-d8	111	61 - 135	%REC	0.54	02/07/2005 6:51 PM	R39922
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	20.84	0	wt%	1	02/09/2005 1:45 PM	R39979

Qualifiers:

BaseReport-Continuous2004

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

Client Sample ID: B-1 7' **Matrix:** SOIL
Lab ID: 05020165-02 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 10:12 AM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
1,1,2,2-Tetrachloroethane	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
1,1,2-Trichloroethane	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
1,1-Dichloroethane	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
1,1-Dichloroethene	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
1,2-Dichloroethane	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
1,2-Dichloropropane	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
2-Butanone	ND		2.75	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
2-Hexanone	ND		2.75	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
4-Methyl-2-pentanone	ND		2.75	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Acetone	ND		27.5	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Benzene	0.35	J	0.174	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Bromodichloromethane	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Bromoform	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Bromomethane	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Carbon disulfide	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Carbon tetrachloride	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Chlorobenzene	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Chloroethane	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Chloroform	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Chloromethane	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
cis-1,2-Dichloroethene	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
cis-1,3-Dichloropropene	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Dibromochloromethane	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Ethylbenzene	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
m,p-Xylene	ND		1.10	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Methyl tert-butyl ether	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Methylene chloride	ND		2.75	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
o-Xylene	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Styrene	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Tetrachloroethene	ND		0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
trans-1,2-Dichloroethene	ND	0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
trans-1,3-Dichloropropene	ND	0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Trichloroethene	ND	0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Vinyl chloride	ND	0.549	µg/Kg-dry	0.46	02/07/2005 7:27 PM	R39922
Surrogate: 4-Bromofluorobenzene	101	61.55 - 121	%REC	0.46	02/07/2005 7:27 PM	R39922
Surrogate: Dibromofluoromethane	94.0	71.4 - 147	%REC	0.46	02/07/2005 7:27 PM	R39922
Surrogate: Toluene-d8	110	61 - 135	%REC	0.46	02/07/2005 7:27 PM	R39922
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	16.25	0	wt%	1	02/09/2005 1:45 PM	R39979

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

Client Sample ID: **B-2 3'** **Matrix:** SOIL
Lab ID: 05020165-03 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 10:30 AM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
1,1,2,2-Tetrachloroethane	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
1,1,2-Trichloroethane	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
1,1-Dichloroethane	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
1,1-Dichloroethene	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
1,2-Dichloroethane	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
1,2-Dichloropropane	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
2-Butanone	3.50		3.21	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
2-Hexanone	ND		3.21	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
4-Methyl-2-pentanone	ND		3.21	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Acetone	ND		32.1	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Benzene	0.60	J	0.204	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Bromodichloromethane	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Bromoform	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Bromomethane	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Carbon disulfide	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Carbon tetrachloride	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Chlorobenzene	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Chloroethane	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Chloroform	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Chloromethane	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
cis-1,2-Dichloroethene	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
cis-1,3-Dichloropropene	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Dibromochloromethane	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Ethylbenzene	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
m,p-Xylene	ND		1.29	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Methyl tert-butyl ether	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Methylene chloride	ND		3.21	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
o-Xylene	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Styrene	ND		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Tetrachloroethene	0.797		0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
trans-1,2-Dichloroethene	ND	0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
trans-1,3-Dichloropropene	ND	0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Trichloroethene	ND	0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Vinyl chloride	ND	0.643	µg/Kg-dry	0.59	02/10/2005 1:21 PM	R40010
Surrogate: 4-Bromofluorobenzene	96.7	61.55 - 121	%REC	0.59	02/10/2005 1:21 PM	R40010
Surrogate: Dibromofluoromethane	89.2	71.4 - 147	%REC	0.59	02/10/2005 1:21 PM	R40010
Surrogate: Toluene-d8	99.0	61 - 135	%REC	0.59	02/10/2005 1:21 PM	R40010
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	8.177	0	wt%	1	02/09/2005 1:45 PM	R39979

Qualifiers:

BaseReport-Continuous2004

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

Client Sample ID: **B-2 5'** **Matrix:** SOIL
Lab ID: 05020165-04 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 10:45 AM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
1,1,2,2-Tetrachloroethane	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
1,1,2-Trichloroethane	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
1,1-Dichloroethane	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
1,1-Dichloroethene	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
1,2-Dichloroethane	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
1,2-Dichloropropane	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
2-Butanone	ND		3.60	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
2-Hexanone	ND		3.60	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
4-Methyl-2-pentanone	ND		3.60	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Acetone	ND		36.0	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Benzene	1.20		0.228	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Bromodichloromethane	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Bromoform	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Bromomethane	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Carbon disulfide	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Carbon tetrachloride	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Chlorobenzene	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Chloroethane	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Chloroform	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Chloromethane	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
cis-1,2-Dichloroethene	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
cis-1,3-Dichloropropene	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Dibromochloromethane	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Ethylbenzene	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
m,p-Xylene	ND		1.44	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Methyl tert-butyl ether	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Methylene chloride	ND		3.60	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
o-Xylene	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Styrene	ND		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Tetrachloroethene	2.27		0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922

Qualifiers:

BaseReport-Continuous2004

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	1.92	0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
trans-1,2-Dichloroethene	ND	0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
trans-1,3-Dichloropropene	ND	0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Trichloroethene	ND	0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Vinyl chloride	ND	0.720	µg/Kg-dry	0.59	02/07/2005 8:40 PM	R39922
Surrogate: 4-Bromofluorobenzene	99.8	61.55 - 121	%REC	0.59	02/07/2005 8:40 PM	R39922
Surrogate: Dibromofluoromethane	95.6	71.4 - 147	%REC	0.59	02/07/2005 8:40 PM	R39922
Surrogate: Toluene-d8	112	61 - 135	%REC	0.59	02/07/2005 8:40 PM	R39922
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	18.11	0	wt%	1	02/09/2005 1:45 PM	R39979

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

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Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

Client Sample ID: **B-3 1'** **Matrix:** SOIL
Lab ID: 05020165-05 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 11:10 AM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
1,1,2,2-Tetrachloroethane	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
1,1,2-Trichloroethane	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
1,1-Dichloroethane	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
1,1-Dichloroethene	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
1,2-Dichloroethane	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
1,2-Dichloropropane	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
2-Butanone	ND		4.08	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
2-Hexanone	ND		4.08	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
4-Methyl-2-pentanone	ND		4.08	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Acetone	ND		40.8	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Benzene	0.37	J	0.259	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Bromodichloromethane	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Bromoform	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Bromomethane	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Carbon disulfide	2.32		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Carbon tetrachloride	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Chlorobenzene	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Chloroethane	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Chloroform	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Chloromethane	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
cis-1,2-Dichloroethene	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
cis-1,3-Dichloropropene	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Dibromochloromethane	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Ethylbenzene	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
m,p-Xylene	ND		1.63	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Methyl tert-butyl ether	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Methylene chloride	ND		4.08	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
o-Xylene	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Styrene	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Tetrachloroethene	ND		0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
trans-1,2-Dichloroethene	ND	0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
trans-1,3-Dichloropropene	ND	0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Trichloroethene	ND	0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Vinyl chloride	ND	0.815	µg/Kg-dry	0.68	02/07/2005 9:16 PM	R39922
Surrogate: 4-Bromofluorobenzene	92.1	61.55 - 121	%REC	0.68	02/07/2005 9:16 PM	R39922
Surrogate: Dibromofluoromethane	93.4	71.4 - 147	%REC	0.68	02/07/2005 9:16 PM	R39922
Surrogate: Toluene-d8	106	61 - 135	%REC	0.68	02/07/2005 9:16 PM	R39922
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	16.58	0	wt%	1	02/09/2005 1:45 PM	R39979

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BasicReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

Client Sample ID: B-3 9' **Matrix:** SOIL
Lab ID: 05020165-06 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 11:30 AM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
1,1,2,2-Tetrachloroethane	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
1,1,2-Trichloroethane	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
1,1-Dichloroethane	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
1,1-Dichloroethene	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
1,2-Dichloroethane	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
1,2-Dichloropropane	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
2-Butanone	ND		3.68	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
2-Hexanone	ND		3.68	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
4-Methyl-2-pentanone	ND		3.68	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Acetone	ND		36.8	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Benzene	1.20		0.234	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Bromodichloromethane	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Bromoform	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Bromomethane	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Carbon disulfide	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Carbon tetrachloride	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Chlorobenzene	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Chloroethane	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Chloroform	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Chloromethane	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
cis-1,2-Dichloroethene	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
cis-1,3-Dichloropropene	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Dibromochloromethane	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Ethylbenzene	0.825		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
m,p-Xylene	ND		1.47	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Methyl tert-butyl ether	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Methylene chloride	ND		3.68	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
o-Xylene	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Styrene	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Tetrachloroethene	ND		0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	2.21	0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
trans-1,2-Dichloroethene	ND	0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
trans-1,3-Dichloropropene	ND	0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Trichloroethene	ND	0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Vinyl chloride	ND	0.736	µg/Kg-dry	0.62	02/07/2005 9:52 PM	R39922
Surrogate: 4-Bromofluorobenzene	87.3	61.55 - 121	%REC	0.62	02/07/2005 9:52 PM	R39922
Surrogate: Dibromofluoromethane	93.7	71.4 - 147	%REC	0.62	02/07/2005 9:52 PM	R39922
Surrogate: Toluene-d8	104	61 - 135	%REC	0.62	02/07/2005 9:52 PM	R39922
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	15.78	0	wt%	1	02/09/2005 1:45 PM	R39979

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

Client Sample ID: **B-4 3'** **Matrix:** SOIL
Lab ID: 05020165-07 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 11:50 AM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
1,1,2,2-Tetrachloroethane	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
1,1,2-Trichloroethane	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
1,1-Dichloroethane	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
1,1-Dichloroethene	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
1,2-Dichloroethane	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
1,2-Dichloropropane	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
2-Butanone	ND		3.42	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
2-Hexanone	ND		3.42	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
4-Methyl-2-pentanone	ND		3.42	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Acetone	ND		34.2	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Benzene	ND		0.217	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Bromodichloromethane	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Bromoform	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Bromomethane	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Carbon disulfide	1.76		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Carbon tetrachloride	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Chlorobenzene	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Chloroethane	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Chloroform	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Chloromethane	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
cis-1,2-Dichloroethene	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
cis-1,3-Dichloropropene	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Dibromochloromethane	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Ethylbenzene	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
m,p-Xylene	ND		1.37	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Methyl tert-butyl ether	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Methylene chloride	ND		3.42	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
o-Xylene	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Styrene	ND		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Tetrachloroethene	4.32		0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
trans-1,2-Dichloroethene	ND	0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
trans-1,3-Dichloropropene	ND	0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Trichloroethene	ND	0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Vinyl chloride	ND	0.685	µg/Kg-dry	0.56	02/10/2005 9:14 PM	R40010
Surrogate: 4-Bromofluorobenzene	98.0	61.55 - 121	%REC	0.56	02/10/2005 9:14 PM	R40010
Surrogate: Dibromofluoromethane	89.2	71.4 - 147	%REC	0.56	02/10/2005 9:14 PM	R40010
Surrogate: Toluene-d8	99.8	61 - 135	%REC	0.56	02/10/2005 9:14 PM	R40010
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	18.23	0	wt%	1	02/09/2005 1:45 PM	R39979

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

Client Sample ID: B-4 5' **Matrix:** SOIL
Lab ID: 05020165-08 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 12:00 PM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
1,1,2,2-Tetrachloroethane	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
1,1,2-Trichloroethane	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
1,1-Dichloroethane	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
1,1-Dichloroethene	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
1,2-Dichloroethane	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
1,2-Dichloropropane	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
2-Butanone	ND		3.54	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
2-Hexanone	ND		3.54	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
4-Methyl-2-pentanone	ND		3.54	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Acetone	ND		35.4	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Benzene	0.757		0.224	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Bromodichloromethane	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Bromoform	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Bromomethane	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Carbon disulfide	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Carbon tetrachloride	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Chlorobenzene	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Chloroethane	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Chloroform	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Chloromethane	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
cis-1,2-Dichloroethene	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
cis-1,3-Dichloropropene	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Dibromochloromethane	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Ethylbenzene	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
m,p-Xylene	ND		1.42	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Methyl tert-butyl ether	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Methylene chloride	ND		3.54	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
o-Xylene	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Styrene	ND		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Tetrachloroethene	1.77		0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
trans-1,2-Dichloroethene	ND	0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
trans-1,3-Dichloropropene	ND	0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Trichloroethene	ND	0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Vinyl chloride	ND	0.708	µg/Kg-dry	0.58	02/07/2005 10:28 PM	R39922
Surrogate: 4-Bromofluorobenzene	103	61.55 - 121	%REC	0.58	02/07/2005 10:28 PM	R39922
Surrogate: Dibromofluoromethane	94.3	71.4 - 147	%REC	0.58	02/07/2005 10:28 PM	R39922
Surrogate: Toluene-d8	111	61 - 135	%REC	0.58	02/07/2005 10:28 PM	R39922
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	18.02	0	wt%	1	02/09/2005 1:45 PM	R39979

Qualifiers:

BaseReport-Continuous2004

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

Client Sample ID: B-5 2' **Matrix:** SOIL
Lab ID: 05020165-09 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 12:15 PM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
1,1,2,2-Tetrachloroethane	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
1,1,2-Trichloroethane	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
1,1-Dichloroethane	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
1,1-Dichloroethene	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
1,2-Dichloroethane	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
1,2-Dichloropropane	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
2-Butanone	3.77		3.20	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
2-Hexanone	ND		3.20	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
4-Methyl-2-pentanone	ND		3.20	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Acetone	ND		32.0	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Benzene	ND		0.203	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Bromodichloromethane	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Bromoform	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Bromomethane	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Carbon disulfide	1.75		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Carbon tetrachloride	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Chlorobenzene	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Chloroethane	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Chloroform	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Chloromethane	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
cis-1,2-Dichloroethene	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
cis-1,3-Dichloropropene	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Dibromochloromethane	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Ethylbenzene	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
m,p-Xylene	ND		1.28	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Methyl tert-butyl ether	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Methylene chloride	ND		3.20	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
o-Xylene	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Styrene	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Tetrachloroethene	ND		0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
trans-1,2-Dichloroethene	ND	0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
trans-1,3-Dichloropropene	ND	0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Trichloroethene	ND	0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Vinyl chloride	ND	0.640	µg/Kg-dry	0.55	02/10/2005 1:58 PM	R40010
Surrogate: 4-Bromofluorobenzene	96.3	61.55 - 121	%REC	0.55	02/10/2005 1:58 PM	R40010
Surrogate: Dibromofluoromethane	88.0	71.4 - 147	%REC	0.55	02/10/2005 1:58 PM	R40010
Surrogate: Toluene-d8	99.0	61 - 135	%REC	0.55	02/10/2005 1:58 PM	R40010
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	14.02	0	wt%	1	02/10/2005 1:15 PM	R39999

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

Client Sample ID: B-5 7' **Matrix:** SOIL
Lab ID: 05020165-10 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 12:30 PM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
1,1,2,2-Tetrachloroethane	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
1,1,2-Trichloroethane	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
1,1-Dichloroethane	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
1,1-Dichloroethene	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
1,2-Dichloroethane	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
1,2-Dichloropropane	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
2-Butanone	ND		3.18	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
2-Hexanone	ND		3.18	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
4-Methyl-2-pentanone	ND		3.18	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Acetone	ND		31.8	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Benzene	0.43	J	0.202	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Bromodichloromethane	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Bromoform	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Bromomethane	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Carbon disulfide	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Carbon tetrachloride	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Chlorobenzene	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Chloroethane	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Chloroform	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Chloromethane	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
cis-1,2-Dichloroethene	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
cis-1,3-Dichloropropene	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Dibromochloromethane	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Ethylbenzene	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
m,p-Xylene	ND		1.27	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Methyl tert-butyl ether	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Methylene chloride	ND		3.18	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
o-Xylene	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Styrene	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Tetrachloroethene	ND		0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010

Qualifiers:

BaseReport-Continuous2004

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
trans-1,2-Dichloroethene	ND	0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
trans-1,3-Dichloropropene	ND	0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Trichloroethene	ND	0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Vinyl chloride	ND	0.637	µg/Kg-dry	0.52	02/10/2005 2:34 PM	R40010
Surrogate: 4-Bromofluorobenzene	97.1	61.55 - 121	%REC	0.52	02/10/2005 2:34 PM	R40010
Surrogate: Dibromofluoromethane	90.4	71.4 - 147	%REC	0.52	02/10/2005 2:34 PM	R40010
Surrogate: Toluene-d8	102	61 - 135	%REC	0.52	02/10/2005 2:34 PM	R40010
ORGANIC CARBON CONTENT		Method: D 2974-00			Analyst: ID	
Organic Matter Content (FOM)	0.009	0.001	g/g	1	02/10/2005 1:15 PM	R40012
PH (IN LABORATORY) <ATC>		Method: SW9045C			Analyst: RR	
pH	8.25	0	pH Units	1	02/04/2005 5:49 PM	R39871
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	18.34	0	wt%	1	02/10/2005 1:15 PM	R39999

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BasicReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

Client Sample ID: B-6 3' **Matrix:** SOIL
Lab ID: 05020165-11 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 1:25 PM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
1,1,2,2-Tetrachloroethane	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
1,1,2-Trichloroethane	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
1,1-Dichloroethane	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
1,1-Dichloroethene	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
1,2-Dichloroethane	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
1,2-Dichloropropane	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
2-Butanone	ND		4.29	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
2-Hexanone	ND		4.29	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
4-Methyl-2-pentanone	ND		4.29	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Acetone	ND		42.9	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Benzene	ND		0.272	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Bromodichloromethane	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Bromoform	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Bromomethane	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Carbon disulfide	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Carbon tetrachloride	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Chlorobenzene	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Chloroethane	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Chloroform	4.32		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Chloromethane	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
cis-1,2-Dichloroethene	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
cis-1,3-Dichloropropene	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Dibromochloromethane	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Ethylbenzene	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
m,p-Xylene	ND		1.72	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Methyl tert-butyl ether	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Methylene chloride	ND		4.29	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
o-Xylene	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Styrene	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Tetrachloroethene	ND		0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
trans-1,2-Dichloroethene	ND	0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
trans-1,3-Dichloropropene	ND	0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Trichloroethene	ND	0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Vinyl chloride	ND	0.859	µg/Kg-dry	0.72	02/10/2005 3:11 PM	R40010
Surrogate: 4-Bromofluorobenzene	100	61.55 - 121	%REC	0.72	02/10/2005 3:11 PM	R40010
Surrogate: Dibromofluoromethane	91.3	71.4 - 147	%REC	0.72	02/10/2005 3:11 PM	R40010
Surrogate: Toluene-d8	99.7	61 - 135	%REC	0.72	02/10/2005 3:11 PM	R40010
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	16.18	0	wt%	1	02/10/2005 1:15 PM	R39999

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

Client Sample ID: **B-6 8'** **Matrix:** SOIL
Lab ID: 05020165-12 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 1:38 PM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
1,1,2,2-Tetrachloroethane	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
1,1,2-Trichloroethane	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
1,1-Dichloroethane	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
1,1-Dichloroethene	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
1,2-Dichloroethane	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
1,2-Dichloropropane	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
2-Butanone	ND		3.83	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
2-Hexanone	ND		3.83	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
4-Methyl-2-pentanone	ND		3.83	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Acetone	ND		38.3	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Benzene	ND		0.243	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Bromodichloromethane	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Bromoform	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Bromomethane	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Carbon disulfide	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Carbon tetrachloride	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Chlorobenzene	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Chloroethane	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Chloroform	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Chloromethane	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
cis-1,2-Dichloroethene	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
cis-1,3-Dichloropropene	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Dibromochloromethane	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Ethylbenzene	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
m,p-Xylene	ND		1.53	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Methyl tert-butyl ether	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Methylene chloride	ND		3.83	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
o-Xylene	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Styrene	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Tetrachloroethene	ND		0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
trans-1,2-Dichloroethene	ND	0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
trans-1,3-Dichloropropene	ND	0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Trichloroethene	ND	0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Vinyl chloride	ND	0.766	µg/Kg-dry	0.61	02/10/2005 3:47 PM	R40010
Surrogate: 4-Bromofluorobenzene	98.3	61.55 - 121	%REC	0.61	02/10/2005 3:47 PM	R40010
Surrogate: Dibromofluoromethane	91.3	71.4 - 147	%REC	0.61	02/10/2005 3:47 PM	R40010
Surrogate: Toluene-d8	99.7	61 - 135	%REC	0.61	02/10/2005 3:47 PM	R40010
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	20.32	0	wt%	1	02/10/2005 1:15 PM	R39999

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

Client Sample ID: B-7 2' **Matrix:** SOIL
Lab ID: 05020165-13 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 1:55 PM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
1,1,2,2-Tetrachloroethane	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
1,1,2-Trichloroethane	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
1,1-Dichloroethane	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
1,1-Dichloroethene	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
1,2-Dichloroethane	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
1,2-Dichloropropane	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
2-Butanone	4.99		3.87	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
2-Hexanone	ND		3.87	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
4-Methyl-2-pentanone	ND		3.87	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Acetone	43.4		38.7	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Benzene	0.40	J	0.246	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Bromodichloromethane	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Bromoform	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Bromomethane	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Carbon disulfide	3.08		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Carbon tetrachloride	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Chlorobenzene	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Chloroethane	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Chloroform	3.30		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Chloromethane	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
cis-1,2-Dichloroethene	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
cis-1,3-Dichloropropene	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Dibromochloromethane	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Ethylbenzene	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
m,p-Xylene	ND		1.55	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Methyl tert-butyl ether	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Methylene chloride	ND		3.87	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
o-Xylene	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Styrene	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Tetrachloroethene	ND		0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
trans-1,2-Dichloroethene	ND	0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
trans-1,3-Dichloropropene	ND	0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Trichloroethene	ND	0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Vinyl chloride	ND	0.775	µg/Kg-dry	0.65	02/10/2005 4:23 PM	R40010
Surrogate: 4-Bromofluorobenzene	91.8	61.55 - 121	%REC	0.65	02/10/2005 4:23 PM	R40010
Surrogate: Dibromofluoromethane	88.2	71.4 - 147	%REC	0.65	02/10/2005 4:23 PM	R40010
Surrogate: Toluene-d8	101	61 - 135	%REC	0.65	02/10/2005 4:23 PM	R40010
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	16.12	0	wt%	1	02/10/2005 1:15 PM	R39999

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BasicReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

Client Sample ID: B-7 8' **Matrix:** SOIL
Lab ID: 05020165-14 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 2:09 PM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
1,1,2,2-Tetrachloroethane	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
1,1,2-Trichloroethane	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
1,1-Dichloroethane	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
1,1-Dichloroethene	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
1,2-Dichloroethane	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
1,2-Dichloropropane	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
2-Butanone	ND		3.37	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
2-Hexanone	ND		3.37	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
4-Methyl-2-pentanone	ND		3.37	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Acetone	ND		33.7	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Benzene	ND		0.214	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Bromodichloromethane	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Bromoform	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Bromomethane	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Carbon disulfide	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Carbon tetrachloride	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Chlorobenzene	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Chloroethane	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Chloroform	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Chloromethane	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
cis-1,2-Dichloroethene	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
cis-1,3-Dichloropropene	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Dibromochloromethane	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Ethylbenzene	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
m,p-Xylene	ND		1.35	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Methyl tert-butyl ether	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Methylene chloride	ND		3.37	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
o-Xylene	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Styrene	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Tetrachloroethene	ND		0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
trans-1,2-Dichloroethene	ND	0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
trans-1,3-Dichloropropene	ND	0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Trichloroethene	ND	0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Vinyl chloride	ND	0.674	µg/Kg-dry	0.54	02/10/2005 5:00 PM	R40010
Surrogate: 4-Bromofluorobenzene	98.3	61.55 - 121	%REC	0.54	02/10/2005 5:00 PM	R40010
Surrogate: Dibromofluoromethane	93.8	71.4 - 147	%REC	0.54	02/10/2005 5:00 PM	R40010
Surrogate: Toluene-d8	104	61 - 135	%REC	0.54	02/10/2005 5:00 PM	R40010
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	19.91	0	wt%	1	02/10/2005 1:15 PM	R39999

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

Client Sample ID: **B-8 3'** **Matrix:** SOIL
Lab ID: 05020165-15 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 2:30 PM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
1,1,2,2-Tetrachloroethane	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
1,1,2-Trichloroethane	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
1,1-Dichloroethane	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
1,1-Dichloroethene	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
1,2-Dichloroethane	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
1,2-Dichloropropane	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
2-Butanone	ND		2.87	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
2-Hexanone	ND		2.87	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
4-Methyl-2-pentanone	ND		2.87	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Acetone	ND		28.7	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Benzene	ND		0.182	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Bromodichloromethane	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Bromoform	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Bromomethane	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Carbon disulfide	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Carbon tetrachloride	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Chlorobenzene	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Chloroethane	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Chloroform	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Chloromethane	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
cis-1,2-Dichloroethene	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
cis-1,3-Dichloropropene	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Dibromochloromethane	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Ethylbenzene	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
m,p-Xylene	ND		1.15	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Methyl tert-butyl ether	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Methylene chloride	ND		2.87	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
o-Xylene	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Styrene	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Tetrachloroethene	ND		0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010

Qualifiers:

BaseReport-Continuous2004

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
trans-1,2-Dichloroethene	ND	0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
trans-1,3-Dichloropropene	ND	0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Trichloroethene	ND	0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Vinyl chloride	ND	0.574	µg/Kg-dry	0.45	02/10/2005 5:36 PM	R40010
Surrogate: 4-Bromofluorobenzene	97.2	61.55 - 121	%REC	0.45	02/10/2005 5:36 PM	R40010
Surrogate: Dibromofluoromethane	89.3	71.4 - 147	%REC	0.45	02/10/2005 5:36 PM	R40010
Surrogate: Toluene-d8	102	61 - 135	%REC	0.45	02/10/2005 5:36 PM	R40010
ORGANIC CARBON CONTENT		Method: D 2974-00			Analyst: ID	
Organic Matter Content (FOM)	0.075	0.001	g/g	1	02/10/2005 1:15 PM	R40012
PH (IN LABORATORY) <ATC>		Method: SW9045C			Analyst: RR	
pH	8.05	0	pH Units	1	02/04/2005 5:49 PM	R39871
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	21.57	0	wt%	1	02/10/2005 1:15 PM	R39999

Qualifiers:

BaseReport-Continuous2004

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

Client Sample ID: B-8 6' **Matrix:** SOIL
Lab ID: 05020165-16 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 2:10 PM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
1,1,2,2-Tetrachloroethane	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
1,1,2-Trichloroethane	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
1,1-Dichloroethane	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
1,1-Dichloroethene	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
1,2-Dichloroethane	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
1,2-Dichloropropane	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
2-Butanone	ND		4.03	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
2-Hexanone	ND		4.03	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
4-Methyl-2-pentanone	ND		4.03	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Acetone	ND		40.3	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Benzene	ND		0.255	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Bromodichloromethane	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Bromoform	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Bromomethane	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Carbon disulfide	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Carbon tetrachloride	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Chlorobenzene	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Chloroethane	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Chloroform	0.935		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Chloromethane	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
cis-1,2-Dichloroethene	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
cis-1,3-Dichloropropene	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Dibromochloromethane	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Ethylbenzene	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
m,p-Xylene	ND		1.61	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Methyl tert-butyl ether	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Methylene chloride	ND		4.03	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
o-Xylene	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Styrene	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Tetrachloroethene	ND		0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
trans-1,2-Dichloroethene	ND	0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
trans-1,3-Dichloropropene	ND	0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Trichloroethene	ND	0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Vinyl chloride	ND	0.806	µg/Kg-dry	0.65	02/10/2005 6:12 PM	R40010
Surrogate: 4-Bromofluorobenzene	97.9	61.55 - 121	%REC	0.65	02/10/2005 6:12 PM	R40010
Surrogate: Dibromofluoromethane	89.2	71.4 - 147	%REC	0.65	02/10/2005 6:12 PM	R40010
Surrogate: Toluene-d8	98.8	61 - 135	%REC	0.65	02/10/2005 6:12 PM	R40010
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	19.35	0	wt%	1	02/10/2005 1:15 PM	R39999

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

Client Sample ID: B-9 3' **Matrix:** SOIL
Lab ID: 05020165-17 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 2:55 PM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
1,1,2,2-Tetrachloroethane	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
1,1,2-Trichloroethane	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
1,1-Dichloroethane	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
1,1-Dichloroethene	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
1,2-Dichloroethane	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
1,2-Dichloropropane	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
2-Butanone	8.72		3.62	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
2-Hexanone	ND		3.62	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
4-Methyl-2-pentanone	ND		3.62	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Acetone	87.6		36.2	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Benzene	ND		0.230	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Bromodichloromethane	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Bromoform	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Bromomethane	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Carbon disulfide	1.69		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Carbon tetrachloride	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Chlorobenzene	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Chloroethane	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Chloroform	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Chloromethane	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
cis-1,2-Dichloroethene	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
cis-1,3-Dichloropropene	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Dibromochloromethane	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Ethylbenzene	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
m,p-Xylene	ND		1.45	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Methyl tert-butyl ether	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Methylene chloride	ND		3.62	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
o-Xylene	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Styrene	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010
Tetrachloroethene	ND		0.724	µg/Kg-dry	0.61	02/10/2005 6:49 PM	R40010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
trans-1,2-Dichloroethene	ND	0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
trans-1,3-Dichloropropene	ND	0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Trichloroethene	ND	0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Vinyl chloride	ND	0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Surrogate: 4-Bromofluorobenzene	96.4	61.55 - 121	%REC	0.54	02/10/2005 7:25 PM	R40010
Surrogate: Dibromofluoromethane	90.9	71.4 - 147	%REC	0.54	02/10/2005 7:25 PM	R40010
Surrogate: Toluene-d8	102	61 - 135	%REC	0.54	02/10/2005 7:25 PM	R40010
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	20.52	0	wt%	1	02/10/2005 1:15 PM	R39999

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

Client Sample ID: B-9 10' **Matrix:** SOIL
Lab ID: 05020165-18 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 3:10 PM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
1,1,2,2-Tetrachloroethane	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
1,1,2-Trichloroethane	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
1,1-Dichloroethane	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
1,1-Dichloroethene	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
1,2-Dichloroethane	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
1,2-Dichloropropane	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
2-Butanone	ND		3.40	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
2-Hexanone	ND		3.40	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
4-Methyl-2-pentanone	ND		3.40	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Acetone	ND		34.0	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Benzene	0.33	J	0.215	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Bromodichloromethane	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Bromoform	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Bromomethane	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Carbon disulfide	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Carbon tetrachloride	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Chlorobenzene	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Chloroethane	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Chloroform	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Chloromethane	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
cis-1,2-Dichloroethene	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
cis-1,3-Dichloropropene	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Dibromochloromethane	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Ethylbenzene	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
m,p-Xylene	ND		1.36	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Methyl tert-butyl ether	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Methylene chloride	ND		3.40	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
o-Xylene	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Styrene	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Tetrachloroethene	ND		0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BasicReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
trans-1,2-Dichloroethene	ND	0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
trans-1,3-Dichloropropene	ND	0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Trichloroethene	ND	0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Vinyl chloride	ND	0.679	µg/Kg-dry	0.54	02/10/2005 7:25 PM	R40010
Surrogate: 4-Bromofluorobenzene	96.4	61.55 - 121	%REC	0.54	02/10/2005 7:25 PM	R40010
Surrogate: Dibromofluoromethane	90.9	71.4 - 147	%REC	0.54	02/10/2005 7:25 PM	R40010
Surrogate: Toluene-d8	102	61 - 135	%REC	0.54	02/10/2005 7:25 PM	R40010
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	20.52	0	wt%	1	02/10/2005 1:15 PM	R39999

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

Client Sample ID: B-10 2' **Matrix:** SOIL
Lab ID: 05020165-19 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 3:25 PM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
1,1,2,2-Tetrachloroethane	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
1,1,2-Trichloroethane	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
1,1-Dichloroethane	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
1,1-Dichloroethene	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
1,2-Dichloroethane	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
1,2-Dichloropropane	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
2-Butanone	ND		3.62	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
2-Hexanone	ND		3.62	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
4-Methyl-2-pentanone	ND		3.62	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Acetone	ND		36.2	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Benzene	0.67	J	0.229	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Bromodichloromethane	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Bromoform	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Bromomethane	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Carbon disulfide	4.95		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Carbon tetrachloride	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Chlorobenzene	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Chloroethane	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Chloroform	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Chloromethane	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
cis-1,2-Dichloroethene	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
cis-1,3-Dichloropropene	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Dibromochloromethane	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Ethylbenzene	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
m,p-Xylene	ND		1.45	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Methyl tert-butyl ether	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Methylene chloride	ND		3.62	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
o-Xylene	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Styrene	ND		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Tetrachloroethene	4.27		0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010

Qualifiers:

BaseReport-Continuous2004

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** **05020165**

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
trans-1,2-Dichloroethene	ND	0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
trans-1,3-Dichloropropene	ND	0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Trichloroethene	ND	0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Vinyl chloride	ND	0.723	µg/Kg-dry	0.59	02/10/2005 8:01 PM	R40010
Surrogate: 4-Bromofluorobenzene	93.7	61.55 - 121	%REC	0.59	02/10/2005 8:01 PM	R40010
Surrogate: Dibromofluoromethane	83.1	71.4 - 147	%REC	0.59	02/10/2005 8:01 PM	R40010
Surrogate: Toluene-d8	91.1	61 - 135	%REC	0.59	02/10/2005 8:01 PM	R40010
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	18.41	0	wt%	1	02/10/2005 1:15 PM	R39999

Qualifiers:

BaseReport-Continuous2004

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

Client Sample ID: B-10 9' **Matrix:** SOIL
Lab ID: 05020165-20 **Date Received:** 02/04/2005 2:40 PM **Collection Date:** 02/03/2005 3:36 PM

Parameter	Result	Qual.	Report Limit	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: BK	
1,1,1-Trichloroethane	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
1,1,2,2-Tetrachloroethane	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
1,1,2-Trichloroethane	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
1,1-Dichloroethane	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
1,1-Dichloroethene	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
1,2-Dichloroethane	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
1,2-Dichloropropane	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
2-Butanone	ND		3.93	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
2-Hexanone	ND		3.93	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
4-Methyl-2-pentanone	ND		3.93	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Acetone	ND		39.3	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Benzene	0.52	J	0.249	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Bromodichloromethane	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Bromoform	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Bromomethane	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Carbon disulfide	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Carbon tetrachloride	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Chlorobenzene	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Chloroethane	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Chloroform	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Chloromethane	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
cis-1,2-Dichloroethene	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
cis-1,3-Dichloropropene	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Dibromochloromethane	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Ethylbenzene	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
m,p-Xylene	ND		1.57	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Methyl tert-butyl ether	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Methylene chloride	ND		3.93	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
o-Xylene	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Styrene	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Tetrachloroethene	ND		0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Environmental Design International Inc. **Report Date:** February 11, 2005
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220 **Lab Order:** 05020165

VOLATILE ORGANIC COMPOUNDS		Method: SW8260B			Analyst: BK	
Toluene	ND	0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
trans-1,2-Dichloroethene	ND	0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
trans-1,3-Dichloropropene	ND	0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Trichloroethene	ND	0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Vinyl chloride	ND	0.786	µg/Kg-dry	0.66	02/10/2005 8:38 PM	R40010
Surrogate: 4-Bromofluorobenzene	97.6	61.55 - 121	%REC	0.66	02/10/2005 8:38 PM	R40010
Surrogate: Dibromofluoromethane	96.5	71.4 - 147	%REC	0.66	02/10/2005 8:38 PM	R40010
Surrogate: Toluene-d8	107	61 - 135	%REC	0.66	02/10/2005 8:38 PM	R40010
PERCENT MOISTURE		Method: D2216			Analyst: ID	
Percent Moisture	16.01	0	wt%	1	02/10/2005 1:15 PM	R39999

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
c	Analyte not included in SLI scope of accreditation	E	Estimated, analyte detected above quantitation range
G	Refer to case narrative page for specific comments	H	Holding times for preparation or analysis exceeded
J	Estimated, analyte detected below quantitation limit	ND	Not Detected at the SLI Reporting Limit
Q	Internal standard recovery is outside SLI in-house criteria (no method specific requirements exist)	S	Spike Recovery outside accepted recovery limits

BaseReport-Continuous2004

Suburban Laboratories, Inc.

4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

PREP DATES REPORT

Client ID: Environmental Design International Inc.
Project Name: 421.022.03 / Great Lakes Naval Base Bldg 220

Report Date: February 11, 2005
Lab Order: **05020165**

Lab ID	Collection Date	Batch ID	Prep Method	Prep Test Name	Prep Date
05020165-01A	02/03/2005 9:55 AM	15321	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-02A	02/03/2005 10:12 AM	15321	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-03A	02/03/2005 10:30 AM	15360	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-04A	02/03/2005 10:45 AM	15321	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-05A	02/03/2005 11:10 AM	15321	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-06A	02/03/2005 11:30 AM	15321	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-07A	02/03/2005 11:50 AM	15360	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-08A	02/03/2005 12:00 PM	15321	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-09A	02/03/2005 12:15 PM	15360	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-10A	02/03/2005 12:30 PM	15360	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-11A	02/03/2005 1:25 PM	15360	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-12A	02/03/2005 1:38 PM	15360	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-13A	02/03/2005 1:55 PM	15360	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-14A	02/03/2005 2:09 PM	15360	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-15A	02/03/2005 2:30 PM	15360	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-16A	02/03/2005 2:10 PM	15360	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-17A	02/03/2005 2:55 PM	15360	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-18A	02/03/2005 3:10 PM	15360	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-19A	02/03/2005 3:25 PM	15360	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM
05020165-20A	02/03/2005 3:36 PM	15360	SW5035	CLOSED SYSTEM P&T VOC Prep	02/07/2005 12:00 AM

SUBURBAN LABORATORIES, Inc.

CHAIN OF CUSTODY RECORD

19975

4140 Litt Drive Hillside, IL 60162 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS Email: info@SuburbanLabs.com

Company Name: Environmental Design International
Company Address: 200 S. Michigan Ave Ste 700
City: Chicago, State: IL Zip: 60604
Phone: 312 356-5400 Fax: -5499
Email Address: hlanouset@envdesgn.com
Project ID / Location: 421.022.03 / Great Lakes Naval Base Bldg 220
Project Manager (Report to): Hilary Janouset
Sample Collector(s): Hilary Janouset

TURNAROUND TIME REQUESTED
☑ Normal ☐ RUSH* *Additional Charges Approved.
*Date & Time Needed:
Normal TAT is 7-10 work days for most tests. Rush work must be pre-approved and additional charges apply.

REPORT VIA: ☐ US Mail ☐ Fax ☐ Email ☐ FedEx* *Additional Charges Approved.

Are any of the samples for compliance monitoring purposes or being reported to a regulatory agency? ☐ Yes* ☐ No *If Yes, please specify in comment section below.

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below to indicate request

Page 1 of 2
PO No.
Shipping Method: GLI
QC Reporting Level (Please Circle): 1 2 3
LAB USE ONLY
SLI ORDER No. 05020165
QC sample(s) provided? ☐ Yes ☐ No
Temperature/Preservation Check: 2

	SAMPLE IDENTIFICATION (Please use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	VOCs	PH	TOC	A/R	CONDITION	LAB #
1	B-1 3'	2/3/05	955	Soil	G	4	8oz glass w/ Teflon	NaHSO4 (2) MeOH (5)	X					1ABC
2	B-1 7'	/ /	1012											2ABC
3	B-2 3'	/ /	1030											3
4	B-2 5'	/ /	1045											4
5	B-3 1'	/ /	1110											5
6	B-3 9'	/ /	11:30						(5)					6
7	B-4 3'	/ /	11:50											7
8	B-4 5'	/ /	12:00											8
9	B-5 2'	/ /	1215											9
10	B-5 7'	/ /	1230						✓	X	X			10

GLOSSARY: MATRIX = Drinking Water(DW), Waste Water (WW), Sludge (U), Ground Water (GW), Surface Water (SW), Soil (S), Wipe (P), Solid Waste (WA). CONTAINER = 40ml Vial (A), 2oz (B), 4oz (C), 8oz(D), 500ml(E), 1Liter(F), Glass(G) Plastic(P), Tube(T) PRESERVATION = HCl(1), HNO_3(2), H_2SO_4(3), NaOH(4), MeOH(5), Sodium Bisulfate (6), Sodium Thiosulfate(7) TEMPERATURE = Celsius(C) Received on Ice (ROI) GENERAL = Not Applicable(N/A), Accept(A), Reject(R) CONDITION = Improper container/cap (1), Improper preservation (2), Damaged container/cap (3), Insufficient sample volume (4), Headspace/air bubbles for VOCs (5), Received past holding time (6), Received frozen (7), Label conflicts with COC (8)

COMMENTS & SPECIAL INSTRUCTIONS:

If evidentiary chain of custody procedures are needed, prior arrangements should be made with the lab.

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
Hilary Janouset	2/3/05	[illegible]	2/4/05	[illegible]	2/4/05		
Received By: [illegible] ☐ Ice?	Time: 5pm	Received By: [illegible] ☐ Ice?	Time: 11:20	Received By: [illegible] ☐ Ice?	Time: 4:40	Received By: ☐ Ice?	Time:

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SUBURBAN LABORATORIES, Inc.

CHAIN OF CUSTODY RECORD

19977

4140 Litt Drive Hillside, IL 60162 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS Email: info@SuburbanLabs.com

Company Name: EDI inc.

Company Address:

City: State: Zip:

Phone: Fax:

Email Address: SAME

Project ID / Location:

Project Manager (Report to):

Sample Collector(s):

TURNAROUND TIME REQUESTED

☑ Normal ☐ RUSH* *Additional Charges Approved.

*Date & Time Needed:

Normal TAT is 7-10 work days for most tests. Rush work must be pre-approved and additional charges apply.

REPORT VIA: ☐ US Mail ☐ Fax

☑ Email ☐ FedEx* *Additional Charges Approved.

Are any of the samples for compliance monitoring purposes or being reported to a regulatory agency? ☐ Yes* ☐ No *If Yes, please specify in comment section below.

ANALYSIS & METHOD REQUESTED

Enter an "X" in box below to indicate request

Page 2 of 2

PO No.:

Shipping Method:

QC Reporting Level (Please Circle): 1 2 3

LAB USE ONLY

SU ORDER No.:

QC sample(s) provided? ☐ Yes ☐ No

Temperature/Preservation Check:

	SAMPLE IDENTIFICATION (Please use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	VOC		SOIL	A/R	CONDITION	LAB #
1	B-6 3'	2/3/05	1:25	Soil	G	4	8oz glass jar 40mL VOA	NaHSO4 (2) MeOH (1)	X					11ABC
2	B-6 8'	" "	1:38											12ABC
3	B-7 2'	" "	1:55											13
4	B-7 8'	" "	2:09											14
5	B-8 3'	" "	2:20							X	X			15
6	B-8 6'	" "	2:10						R					16
7	B-9 3'	" "	2:55											17
8	B-9 10'	" "	3:10											18
9	B-10 2'	" "	3:25							X	X			19
10	B-10 9'	" "	3:36											20

GLOSSARY: MATRIX = Drinking Water(DW), Waste Water (WW), Sludge (U), Ground Water (GW), Surface Water (SW), Soil (S), Wipe (P), Solid Waste (WA). CONTAINER = 40ml Vial (A), 2oz (B), 4oz (C), 8oz(D), 500ml(E), 1Liter(F), Glass(G) Plastic(P), Tube(T) PRESERVATION = HCl(1), HNO_3(2), H_2SO_4(3), NaOH(4), MeOH(5), Sodium Bisulfate (6), Sodium Thiosulfate(7) TEMPERATURE = Celsius(C) Received on Ice (ROI) GENERAL = Not Applicable(N/A), Accept(A), Reject(R) CONDITION = Improper container/cap (1), Improper preservation (2), Damaged container/cap (3), Insufficient sample volume (4), Headspace/air bubbles for VOCs (5), Received past holding time (6), Received frozen (7), Label conflicts with COC (8)

COMMENTS & SPECIAL INSTRUCTIONS:

Please analyze B-8 3' and B-8 7' for VOCs, pH and foc (all other samples just VOCs)

If evidentiary chain of custody procedures are needed, prior arrangements should be made with the lab.

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
[signature]	2/3/05	[signature]	2/4/05	[signature]	2/4/05		
Received By	**Time**	**Received By**	**Time**	**Received By**	**Time**	**Received By**	**Time**
[signature] ☒ Ice?	5 pm	[signature] ☒ Ice?	11:20	[signature] ☐ Ice?	14:20	☐ Ice?	

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