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NSTC GREAT LAKES
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REPORT OF PHASE I ENVIRONMENTAL SITE ASSESSMENT NAVSTA GREAT LAKES
NAVAL REGION MIDWEST FAMILY HOUSING PRIVATIZATION NSTC GREAT LAKES IL
10/31/2005
MACTEC ENGINEERING AND CONSULTANTS INC

**REPORT OF PHASE I
ENVIRONMENTAL SITE ASSESSMENT
NAVSTA GREAT LAKES
NAVAL REGION MIDWEST FAMILY
HOUSING PRIVATIZATION**

Prepared for:
Forest City Washington
1615 L Street NW, Suite 400
Washington, DC 20036

Prepared by:
MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue, Suite 250
Chicago, IL 60656

MACTEC Project No. 3205050472.02

October 31, 2005



October 31, 2005

Mr. Michael Hughes
Forest City Washington
1615 L Street NW, Suite 400
Washington, DC 20036

**RE: Phase I Environmental Site Assessment
NAVSTA Great Lakes
Naval Region Midwest Family
Housing Privatization
MACTEC Project No: 3205050472.02**

Dear Mr. Hughes:

Enclosed please find one copy of the Phase I Environmental Site Assessment (ESA) report for the above-referenced property.

Please feel free to contact us if you have any questions.

Sincerely,

MACTEC Engineering and Consulting, Inc.


Benita H. Theleen
Senior Project Scientist


Mary E. Jank, P.G.
Principal Geologist

Enclosure

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APPENDICES

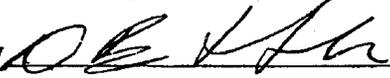
- A Figures
- B Photographic Documentation
- C Regulatory Information
- D Historical Aerial Photographs
- E Sanborn Fire Insurance Map Documentation
- F Freedom of Information Act Requests and Responses
- G Threatened and Endangered Species
- H Resumes
- I Lake County, Illinois Wetland Inventory
- J Radon Results

Amendment

This Amendment is issued and effective as of January 1, 2006 for the purpose of amending, and a copy of this Amendment will be attached to and form an integral part of, each of those Reports which is listed on Exhibit "A" hereto by deleting the first paragraph which appears under the caption "Disclaimer and Limitation of Liability" in its entirety and replacing with the following provision:

This Report is intended for the exclusive use and benefit of Forest City Military Communities, LLC, Forest City Washington, Inc., Midwest Military Communities, LLC and Midwest Family Housing, LLC (collectively, "Client"). However, MACTEC has extended an offer to rely upon or use this Report ("Offer") to (i) the United States of America, Department of the Navy, and (ii) Lehman Brothers, Inc., its successors, affiliates, and permitted assigns, and is willing to extend an offer to rely upon or use this Report (also, "Offer") to the following third parties: (a) the authorized rating agency, (b) prospective bond or other security holders, (c) the trustees of a Trust created to hold the loan, or securities or certificates representing a participation or other interest therein, and (d) the loan servicer, as part of a securitized transaction, as third party beneficiaries of that certain contract between Client and MACTEC made as of July 5, 2005, as amended, (collectively, "Agreement") and this Report (all of the foregoing named in (i) through (d) above, inclusive, individually, "Beneficiary" and, collectively, "Beneficiaries"). The Offer has been, or hereby is, extended to each of you as a Beneficiary as if this Report was prepared for and addressed to you, which said Offer, and your ability to accept the Offer, are expressly conditioned upon (i) the limitations placed on the scope, nature and type of services performed by MACTEC under the Agreement, which are described in the Agreement and this Report, (collectively, "Services") and (ii) your agreement to be bound by the terms and conditions contained in the Agreement and this Report, all of which are incorporated herein by reference. Reliance upon or use of this Report and the contents hereof by you for any purpose whatsoever constitutes acceptance of the Offer and the foregoing conditions to such acceptance and makes you a third party beneficiary of the Agreement and this Report. A copy of the Agreement is available from MACTEC upon request, and certain substantive terms and conditions contained therein are attached to this Report as Attachment "A" for your information, in addition to a limitation of liability that MACTEC might incur as a result of the Agreement, the Services performed by MACTEC under the Agreement ("Services") and the Reports issued by MACTEC pursuant to the Agreement, including this Report ("Limitation of Liability"), as follows:

MACTEC Engineering and Consulting, Inc.

By 
Its Vice President

MACTEC Engineering and Consulting, Inc.

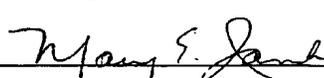
By 
Its Principal

EXHIBIT A

Property Condition Surveys:

Report of Property Condition Survey and Visual Infrastructure Inspection, Naval Region Midwest Family Housing Privatization, Fort Sheridan Naval Housing, August, 2005

Report of Property Condition Survey and Visual Infrastructure Inspection, Naval Region Midwest Family Housing Privatization, Forrestal Village Naval Housing, August, 2005

Report of Property Condition Survey and Visual Infrastructure Inspection, Naval Region Midwest Family Housing Privatization, Halsey and Nimitz Villages Naval Housing, August, 2005

Report of Property Condition Survey and Visual Infrastructure Inspection, Naval Region Midwest Family Housing Privatization, Glenview Naval Housing, August, 2005

Report of Property Condition Survey and Visual Infrastructure Inspection, Naval Region Midwest Family Housing Privatization, Naval Support Activity Crane, August, 2005

Phase I's:

Report of Phase I Environmental Site Assessment, Fort Sheridan, November 1, 2005

Report of Phase I Environmental Site Assessment, NAVSTA Great Lakes, October 31, 2005

Report of Phase I Environmental Site Assessment, Naval Support Activity Crane, November 11, 2005

Report of Phase I Environmental Site Assessment, Former Naval Air Station Glenview, October 31, 2005

Report of Phase I Environmental Site Assessment, NSGA Sabana Seca, December 5, 2005

Phase II's:

Report of Phase II Environmental Site Assessment, Fort Sheridan, December 14, 2005

Report of Phase II Environmental Site Assessment, NAVSTA Great Lakes, December 14, 2005

Report of Phase II Environmental Site Assessment, Naval Support Activity Crane, December 9, 2005

Report of Phase II Environmental Site Assessment, Former Naval Air Station Glenview, December 9, 2005

EXHIBIT "B"

Disclaimer and Limitation of Liability (To be included on 1st page of each Report)

This report is intended for the exclusive use and benefit of Forest City Military communities, LLC and Forest City Washington, Inc. (collectively, "Client"). However, MACTEC either has extended, or is willing to extend, an offer to rely upon or use this Report ("Offer") to (i) Lehman Brothers, Inc., its successors, affiliates, and permitted assigns, and (ii) the following third parties: (a) the authorized rating agency, (b) prospective bond or other security holders, (c) the trustees of a Trust created to hold the loan, or securities or certificates representing a participation or other interest therein, and (d) the loan servicer, as part of a securitized transaction, as third party beneficiaries of that certain contract between Client and MACTEC made as of July 5, 2005 ("Agreement") and this Report (individually, "Beneficiary" and, collectively, "Beneficiaries"). The Offer is extended to you as a Beneficiary as if this Report was prepared for and addressed to you, which said Offer, and your ability to accept the Offer, are expressly conditioned upon (i) the limitations placed on the scope, nature and type of services performed by MACTEC under the Agreement, which are described in the Agreement and this Report (collectively, "Services") and (ii) your agreement to be bound by the terms and conditions contained in the Agreement and this Report, all of which are incorporated herein by reference. Reliance upon or use of this Report and the contents hereof by you for any purpose whatsoever constitutes acceptance of the Offer and the foregoing conditions to such acceptance and makes you a third party beneficiary of the Agreement and this Report. A copy of the Agreement is available from MACTEC upon request, and certain substantive terms and conditions contained therein are attached to this Report as Attachment "A" for your information, in addition to a limitation of liability that MACTEC might incur as a result of the Agreement, the Services performed by MACTEC under the Agreement ("Services") and the Reports issued by MACTEC pursuant to the Agreement, including this Report ("Limitation of Liability") as follows:

A LIMITATION OF MACTEC'S LIABILITY WAS A MATERIAL CONSIDERATION FOR MACTEC'S WILLINGNESS TO PERFORM THE SERVICES. IN THOSE JURISDICTIONS WHERE REQUIRED, YOU HEREBY ACKNOWLEDGE THAT YOU HAVE RECEIVED SPECIAL CONSIDERATION OF TEN DOLLARS (\$10.00) AND WAIVE ANY AND ALL RIGHTS TO DISPUTE THE RECEIPT AND SUFFICIENCY THEREOF. TO THE MAXIMUM EXTENT PERMITTED BY LAW, CLIENT AND ALL BENEFICIARIES, INCLUDING YOU, EXPRESSLY AGREE, FOR THEMSELVES AND ANYONE CLAIMING BY, THROUGH OR UNDER THEM, THAT THE LIABILITY OF MACTEC, ITS PARENT, SUBSIDIARIES, AFFILIATES AND SUBCONTRACTORS, INCLUDING THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES, PRINCIPALS, PARTNERS, AGENTS, SUCCESSORS AND ASSIGNS, ("INDEMNITEES"), FOR ANY AND ALL CAUSES OF ACTION WHATSOEVER, INCLUDING, WITHOUT LIMITATION, TORT, CONTRACT, STRICT LIABILITY, INDEMNITY OR OTHERWISE, ARISING OUT OF, OR IN CONNECTION WITH, THE AGREEMENT AND ANY PROFESSIONAL SERVICES PERFORMED, AND REPORTS ISSUED, PURSUANT TO THE AGREEMENT, SHALL BE LIMITED TO THE AGGREGATE SUM, INCLUDING AMOUNTS PAID TO CLIENT AND ANY AND ALL BENEFICIARIES, INCLUDING YOU, TO WHOM REPORTS ARE PROVIDED, ATTORNEYS' FEES AND ALL OTHER LITIGATION COSTS AND EXPENSES INCURRED BY MACTEC, IF ANY, OF ONE MILLION DOLLARS (\$1,000,000.00). CLIENT, IN ITS OWN RIGHT AND ON BEHALF OF THE BENEFICIARIES, INCLUDING YOU, TO WHOM IT INTENDED TO PROVIDE, AND IN FACT HAS PROVIDED OR WILL PROVIDE, ANY REPORT FOR RELIANCE, HAS ACKNOWLEDGED AND AGREED THAT (i) IT HAS HAD THE OPPORTUNITY TO NEGOTIATE THE TERMS OF THIS LIMITATION OF LIABILITY AND THAT THE LIMITATION OF LIABILITY AMOUNT MAY DIFFER FROM THE AMOUNT OF PROFESSIONAL LIABILITY INSURANCE REQUIRED OF MACTEC UNDER THE AGREEMENT, AND (ii) THE NEED FOR AND EXISTENCE, IF NOT THE PRECISE IDENTITY, OF THE BENEFICIARIES WAS FORESEEABLE AND KNOWN BY CLIENT.

Attachment "A" (To the Report)

STANDARD OF CARE. MACTEC will perform the Services in accordance with the Standard of Care. MACTEC will provide Client with a copy of the applicable ASTM standard(s) upon written request. Except where specified otherwise in MACTEC's proposal, a Phase I ESA and PCS will be a non-invasive survey of the Property that is the subject of the Services. **NO OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED, AND THE SAME ARE SPECIFICALLY DISCLAIMED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE. AND THE OUTCOME OR RESULT OF ANY CASE OR PROJECT FOR WHICH CONSULTANT MAY BE RETAINED TO PROVIDE FORENSIC SERVICES AND/OR TESTIMONY.**

OFFER. Notwithstanding any other provision in this Agreement to the contrary, particularly including, but not limited to, Section 1.07 (a) above, Client acknowledges that the reports to be prepared by MACTEC as a result of the Services performed by it under this Agreement (individually, "Report" and, collectively, "Reports") are intended for the exclusive use and benefit of, and may be relied upon only by, (i) Client, (ii) Lehman Brothers, Inc., its successors, affiliates, and permitted assigns, and (iii) the following third parties: (a) the authorized rating agency, (b) prospective bond or other security holders, (c) the trustees of a trust created to hold the loan, or securities or certificates representing a participation or other interest therein, and (iv) the loan servicer, as part of a securitized transaction. Those parties named in (ii) through (iii) above hereby are specifically made third party beneficiaries of this Agreement and the Reports (individually, "Beneficiary" and, collectively, "Beneficiaries"). In furtherance of the foregoing, MACTEC hereby offers reliance upon and use of the Reports, as aforesaid, to each Beneficiary ("Offer"). Each Beneficiary may accept the Offer by receiving a copy of, and relying upon or otherwise using, a Report.

ACCEPTANCE OF OFFER. Owner, Consultant and each Beneficiary agree that receipt, reliance upon or use of the Reports and the contents thereof by a third party for any purpose whatsoever constitutes acceptance of the Offer and the foregoing conditions to such acceptance, and makes that third party a third party Beneficiary of this Agreement and the Reports. Reliance upon or use of the Reports for any purpose whatsoever by an individual or entity which is neither a party to this Agreement, nor a Beneficiary, is entirely at the peril of that individual or entity. Owner and Beneficiaries further acknowledge and agree that the contents of each Report will only reflect MACTEC's findings as to the conditions that existed at the time the Services referenced therein were performed and may be based in part or in whole on facts and/or assumptions provided to, but not verified independently by, MACTEC, and that MACTEC makes no representations or warranties as to the condition of the subject of any Report subsequent to the date on which the applicable Services were performed or with respect to any facts and/or assumptions provided to, but not verified independently by, MACTEC.

INDIRECT DAMAGES. Neither MACTEC nor you shall be responsible to the other party or any third party for any indirect or incidental damages (including, but not limited to, loss of use, income, profits, financing or reputation) arising out of or relating to the Agreement, this Report or the performance of the Services that gave rise to this Report.

NOTICE REGARDING ASSUMPTION OF RISK AND ADDITIONAL SERVICES OPTIONS. Since a Phase I ESA and a PCS is a survey and not an invasive investigation, and a Phase II ESA is a minimally invasive investigation that utilizes commonly used exploration methods (e.g. drilling, subsurface sampling) to take groundwater, soil and other Samples only in limited areas where the presence of contaminants is suspected, Client understands there is a risk that (i) certain past and present conditions, latent and otherwise, might not be detected and reported by MACTEC and (ii) contamination of previously uncontaminated soils and/or water, including water-bearing strata, which are capable of spreading Contaminants off-site, as well as on-site, might occur even if the Services are performed in accordance with the Standard of Care which is applicable to the Services. Such conditions include, but are not limited to, the presence of UST's that may have been installed and/or removed prior to performing a Phase I or Phase II ESA, short-term uses (generally less than 10 years) that may not be reflected in aerial photographs or other information that is readily available at the time a Phase I ESA is performed, the presence of contamination in areas where it was not suspected at the time a Phase II is performed, or conditions in roofs, buildings and other structures, and various components thereof, that, given the

non-invasive nature of the Services and/or limited visibility or accessibility, are not readily observable at the time a PCS is performed.

Client understands that a PCS is normally performed by a person who possesses a general knowledge of multiple building systems, but is not a specialist in any one of those systems. If Client wishes to have one or more systems surveyed by more experienced personnel, Client has the option to request MACTEC to perform a more extensive PCS, as additional Services, with a corresponding increase in compensation being payable to MACTEC. Also, a façade, invasive, and other special inspection(s) can be performed for roofs, buildings and other structures, and various components thereof, in lieu of a visual survey as additional Services, with a corresponding increase in compensation being payable to MACTEC. If Client does not request such additional Services, Client agrees that MACTEC is in no way liable for any Claims or Liabilities for a condition(s) which such additional Services might have detected. Client agrees that MACTEC is not an insurer or guarantor of the property that is the subject of the Services or the value thereof.

DAMAGES. In the event that MACTEC fails to perform in accordance with the Standard of Care which is applicable to the Services, Client agrees that the damages for which MACTEC shall be liable shall be limited to that proportion of damages which is attributable to MACTEC's percentage of fault which, in no event, shall exceed the limitation of liability set forth in Section 1.07 (c) of the Agreement. Further, in the event that MACTEC fails, in either an ESA or a PCS, to correctly report an environmental or deficient condition in violation of the applicable Standard of Care, the liability of MACTEC, and Client's exclusive remedy, for any and all damages which result therefrom is limited to the lesser of (i) the cost to either remedy the deficient condition or (ii) the resultant diminution in value of the Property on which the ESA was performed that is actually realized by Client, but in no event shall MACTEC be liable for the entire cost of replacing the Property or portion thereof that is subject to the deficient condition; provided, in the event that MACTEC has performed a PCS in violation of the applicable Standard of Care and the Property or portion thereof that is subject to the deficient condition cannot be remedied for a reasonable cost, but must be replaced prior to the end of its useful life, as its useful life was represented by MACTEC, the aforesaid liability of MACTEC will be limited to the value of the useful life of the Property or portion thereof for which Client did not receive the benefit of its represented useful life. This value shall be an amount equal to the full replacement cost of that Property or portion thereof, if and when replaced, multiplied by a fraction, the numerator of which is the amount of said useful life which was lost by the premature replacement and the denominator of which is the useful life, as represented by MACTEC, of the replaced Property or portion thereof that was ended prematurely.

EXECUTIVE SUMMARY

MACTEC Engineering and Consulting, Inc. (MACTEC) was contracted by Forest City Washington to perform a Phase I Environmental Site Assessment on a portion of the Naval Station (NAVSTA) Great Lakes facility located in Lake County, Illinois, hereafter referred to as the subject site. The site inspections were performed on July 18 through 22, 2005, by Ms. Benita H. Theleen of MACTEC.

The subject site investigation consisted of interviewing people knowledgeable about the site; reviewing environmental regulatory databases; reviewing historical information; and conducting a site assessment. The purpose of this investigation was to identify areas of environmental concern associated with the site.

PROPERTY DESCRIPTION

The NAVSTA Great Lakes facility totals more than 1,600 acres of land. The portion of NAVSTA Great Lakes which comprises the subject site consists of residential housing units at Hospital Cove including Fishbowl, Mainside including Squirrel Hollow and Brick Row, Nimitz Village, Halsey Village, and Forrestal Village. The NAVSTA Great Lakes has been in operation since 1911 to support naval training including the Corp School, the Recruit Training Command, and the Training Support Center.

MACTEC has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-00. This assessment has revealed no evidence of the recognized environmental conditions in connection with the subject property except for the following:

- MACTEC was informed of the possible presence of an approximately 500-gallon heating oil underground storage tank (UST) buried in a location to the east of Buildings 3132 and 3136 at Forrestal Village at the subject property (Section 7.0).
- Forrestal Village Landfill is located south of Virginia Avenue, east of the Skokie Ditch and Superior Street at the west central portion of Forrestal Village. Transite (asbestos-containing material (ACM)) waste has been reported in the topsoil used for the landfill cover at this former landfill location. Degradation materials found at Forrestal Village Landfill are reported to be alcohol and methane (Section 2.5).

The following item is considered a potential recognized environmental condition that was identified during the course of the Phase I ESA:

- Based on the age of the buildings in Squirrel Hollow, Brick Row, Buildings 63 and 64, and Hospital Cove, it is possible that mercury switches and PCB-containing light ballasts and/or

fluorescent lighting exist at the subject property. Mercury switches have reportedly been discovered and changed out in some of the older buildings at the base (Section 6.3).

The following items pertain to off-site locations at NAVSTA Great Lakes, Great Lakes, Illinois:

- NAVSTA Great Lakes was identified on the regulatory database report as a large quantity generator and a small quantity generator of RCRA hazardous waste, a CORRACTS (Corrective Action Site), a registered underground storage tank (UST) facility, and a reported leaking UST facility with multiple LUST incidents listed. Numerous violations are listed for NAVSTA Great Lakes. According to documents reviewed, 11 hazardous waste satellite locations exist on the base. MACTEC was informed that the Installation Restoration sites correlate with the hazardous waste storage areas at the base (Sections 3.1 and 5.2).
- A former monazite sand storage area and an area of radium contaminated soil are present on Supplyside, west of Forrestal Village near Buildings 3214 and 3215. Although the former monazite sand storage area and radium contaminated soil are situated off-site of Forrestal Village, the area is divided from the Forrestal Village housing by Skokie Ditch. The potential exists for contamination from the monazite sand to environmentally impact the creek and residential area. (Section 2.5).
- The US Navy Great Lakes Naval Base, Public Works Center Building, was identified as a CERCLIS site. According to government database information, the facility is not an NPL site; the Discovery Assessment was completed on February 12, 1988; the Preliminary Assessment was completed on March 16, 1988; and a second Preliminary Assessment was completed on October 21, 1993. The CERCLIS site status was listed as high. It should be noted that the Public Works Center houses the environmental department for the facility and does not necessarily indicate an environmental concern at the Public Works Center building address (Section 3.1).
- Multiple Leaking Underground Storage Tank (LUST) incidents are listed at off-site locations at NAVSTA Great Lakes. The LUST incidents listed in Mainside are listed at the environmental department address of 201 Decatur Avenue, Building 1A (multiple listings), 5703 Sheridan Road, Building 11, Navy Training Center, Building 5, Building 13, Building 325, Building 329, Building 324, Building 239, and 2703 Sheridan Road. Based on the hydraulic gradient and distance of these LUST sites to the subject property, the reported LUST sites at Mainside are not expected to environmentally impact the subject property (Section 3.1).
- Forrestal Village Buildings 3216B, 3511, 2912, 3114A, 3400 were identified as LUST sites. Due to the proximity of the site to the subject property, the following LUST site, 3511, may have the potential to environmentally impact the subject property. Based on government database information, the LUST incidents at Buildings 3114A and 2912 are not likely to impact the property (Section 2.5). The LUST incidents at 3216B and 3400 had no remaining impacted soil, and low groundwater contamination and are considered to be too far from the property to impact the property.
- Supplyside Landfill is an off-site area located west of the southern portion of Forrestal Village. Transite (asbestos-containing material (ACM)) waste has been reported in the topsoil used for the landfill cover at the former landfill location. Supplyside Landfill wastes included cleaners, solvents, oils, rags, and ink. Soil and groundwater are being monitored in an IEPA approved program (Section 2.5).

The following items, while not considered to be a recognized environmental condition as defined by the ASTM E 1527-00, may pose a financial or other impact to the subject site:

- MACTEC reviewed radon results for Mainside, Halsey Village, Nimitz Village, and Forrestal Village dating back to 1991. Results indicated buildings in each of these areas had radon levels which exceeded the US Environmental Protection Agency action level of 4 pCi (picoCuries). Some of the buildings were re-sampled, with the subsequent sampling results below the action level. To date, no remedial action has been conducted in these buildings (Section 8.1).
- As a result of the demolition of housing in Nimitz Village and Halsey Village circa 1943, asbestos can be found in the area. The area has been covered with fresh topsoil. NAVSTA Great Lakes notifies contractors that asbestos may be encountered in the soil. MACTEC was also informed that transite piping may be buried in the housing areas (Section 8.3).
- Based on past asbestos surveys and the date of construction of the housing, it is likely that asbestos-containing materials are present at the subject property. MACTEC is currently completing a comprehensive asbestos survey. Results to-date indicates that asbestos-containing materials consisting mainly of floor tile and mastic are present in the housing (Section 8.3).
- According to a lead-based paint risk assessment prepared in March of 2005, risks from lead-based paint were identified in interior dust and paint samples in some of the housing at the subject property (Forrestal Village, Halsey Village, Hospital Cove, and Mainside). Limited paint sampling occurred solely in deteriorated areas, and other lead based paint most likely exists in these housing units. Elevated levels of lead were found in the soils at Mainside (Brick Row, Buildings 63 and 64, Squirrel Hollow and Hospital Cove) (Section 8.3).
- Based on the presence of historic properties (buildings 201H, 202H, 203H, 204H, AA, A,B, C, D, E, F, G, I, J, K, 63, and 64) in Mainside and Hospital Cove at the subject site, coordination and consultation with the State Historic Preservation Office would be necessary prior to undertaking new construction, repairs, modifications, or demolition of existing buildings within the historic district (Section 8.8).

1.0 INTRODUCTION

1.1 Purpose

MACTEC Engineering and Consulting, Inc. (MACTEC) was contracted by Forest City Washington to perform a Phase I Environmental Site Assessment of the subject site located at the Navel Station (NAVSTA) Great Lakes in Great Lakes, Lake County, Illinois. The subject site includes all of Forrestal Village, Nimitz Village, and Halsey Village plus buildings at Hospital Cove, and Mainside including Squirrel Hollow and Brick Row. The site location and vicinity maps are presented in Appendix A. MACTEC performed the site inspections on July 18 through 22, 2005. The purpose of the Phase I Assessment was to identify areas of environmental concern associated with the subject site.

1.2 Scope of Work

MACTEC conducted the activities as stated in the following scope of work requested by Forest City Washington with reference to ASTM International's Standard Practice E 1527-00, "*Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*" (E1527-00) and Exhibit A – Scope of Work and Description of Services in the Agreement between Forest City and MACTEC dated July 5, 2005. This work was completed to search for areas of environmental concern associated with the subject site.

1.2.1 On-Site Inspection

- a. MACTEC conducted an on-site inspection of the subject site that consisted of personnel interviews and visual observations to identify readily apparent potential sources of environmental liability.
- b. MACTEC searched for information from readily available sources regarding mercury in fluorescent lamps and switches and potential polychlorinated biphenyls (PCB)-containing light ballasts.
- c. MACTEC conducted an on-site inspection to visually identify transformers, capacitors, or other electrical equipment likely to contain polychlorinated biphenyls (PCBs). MACTEC determined if transformers/capacitors were leaking, and attempted to determine their ownership.
- d. MACTEC visually searched for aboveground storage tanks (ASTs), underground storage tanks (USTs), and associated piping.

- e. MACTEC reviewed environmental documentation files, historical information, and records made available to assist in identifying potential environmental liabilities associated with the subject site.
- f. MACTEC collected photographic documentation of significant environmental features of the subject site.

1.2.2 Inspection of Surrounding Land

MACTEC conducted a visual inspection of surrounding land to identify observable potential environmental threats due to adjacent land use. MACTEC conducted the inspection from the subject site and did not enter other private properties.

1.2.3 Site History

- a. MACTEC interviewed knowledgeable people, including current and previous owners/operators, where feasible, to determine past and present uses of the subject site.
- b. MACTEC reviewed historical aerial photographs from at least three different time periods.
- c. MACTEC searched for Sanborn Fire Insurance maps to assist in determining the past uses of the subject site.
- d. MACTEC reviewed the United States Department of Interior, 7.5 minute series, Topographic Map for the appropriate quadrangle to assist in determining past uses of the subject site.

1.2.4 Regulatory Review

- a. MACTEC contracted Environmental Data Resources, Inc. (EDR) to complete a review of the following government regulatory databases for the specified search distances. Due to the size of the subject site, MACTEC requested that the search radii be extended 1.0-miles beyond the required distances listed below for each of the databases searched. Since the search radii presented in the EDR report extend from approximately the center of the subject site, some of the listed facilities are not accurately described within the EDR report.

Registered Underground Storage Tanks (USTs)	3 mile
Leaking Underground Storage Tanks (LUSTs)	2 mile
National Priority List (NPL)	1 mile
State Hazardous Waste Sites (SHWS)	1 mile
Category List (CAT) (State Equivalent NPL)	1 mile
Site Remediation Program Database (SRP)	2 mile
Comprehensive Environmental Response	
Compensation Liability Information System (CERCLIS)	2 mile
CERCLIS-No Further Remedial Action Planned (NFRAP)	3 mile

Solid Waste Facilities/Landfill Sites (SWF/LF)	2 mile
Resource Conservation and Recovery Act (RCRA)	
- Generators	2 mile
- Treatment, Storage and Disposal (TSDs) Facilities	2 mile
- Corrective Action Report (CORRACTS)	1 mile
Emergency Response Notification System (ERNS)	Subject Site

A description of each database is provided in Section 3.0 of this report.

- b. MACTEC contacted state and local agencies through formal freedom of information act letters and by telephone to search for information related to environmental files of the subject site.
- c. MACTEC contacted the State Historic Preservation Office, the Illinois Department of Natural Resources, and the United States Department of Agriculture Fish and Wildlife Service for information related to landmark/historic designations and threatened/endangered species at the subject site.

1.2.5 Non-ASTM Additional Issues

MACTEC attempted to obtain and review readily available information regarding each of the following non-ASTM additional issues:

- a. Radon testing;
- b. Contaminants in drinking water;
- c. Preliminary lead-based paint and asbestos assessments and provide summary information in the final report;
- d. Possible unexploded ordinance (UXO) on the subject property;
- e. Pesticide use;
- f. Wetlands;
- g. Cultural and archeological resources;
- h. Historical resources;
- i. Threatened and endangered species;
- j. Existing storm water management plans;
- k. Existing indoor air quality information including but not limited to mold;
- l. Spill Prevention Control and Countermeasure (SPCC) Plans;
- m. Other environmental permits (such as National Pollution Discharge Elimination System [NPDES]); and
- n. Development restrictions due to coastal zones.

1.2.6 Sample Collection

No samples of water, air, or soil were collected or analyzed as part of this Assessment.

1.2.7 Data Evaluation and Report

MACTEC evaluated and summarized background information obtained during the subject site inspection, historical review, and regulatory review. MACTEC prepared this report to discuss significant information and provide conclusions.

1.3 Special Terms and Conditions

Unless otherwise stated, the material presented in this report is based on information provided from observations made during the on-site inspections on July 18, 19, 20, 21, and 22, 2005.

This report has been prepared by MACTEC for the use of Forest City Washington, as it pertains to the subject site, NAVSTA Great Lakes, located in Lake County, Illinois. Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by other geologists and engineers practicing in this field. No other warranty, express or implied, is made as to the professional advice in this report.

MACTEC can offer no assurances and assumes no responsibility for site conditions or activities outside the scope of the inquiry requested by Forest City Washington as outlined in this document. It should be understood by Forest City Washington that MACTEC has relied on the accuracy of documents, oral information, and other materials and information provided by Forest City Washington, the Navy and other associated parties. It is recognized that regulatory requirements may change, including the revision of accepted action levels, which could necessitate a review of the discussion, findings, or conclusions of this report. Any subsequent modification, revision or verification of this report must be provided in writing by MACTEC.

1.4 Limitations and Exceptions

Since the use of the subject site had not changed over long periods of time, research of the history during those periods was conducted by reviewing materials available at greater than the ASTM specified five year intervals.

2.0 PROPERTY DESCRIPTION

2.1 Property Location

The NAVSTA Great Lakes totals more than 1,600 acres of land. The portion of the NAVSTA Great Lakes which comprises the subject site consists of residential housing units at Hospital Cove including Fishbowl, Mainside including Squirrel Hollow and Brick Row, Nimitz Village, Halsey Village, and Forrestal Village. The areas of NAVSTA Great Lakes included in the subject site are located in Lake County, Illinois, as follows:

Forrestal Village – Bound on the north by US Route 137 (Buckley Road); on the east by Green Bay Road (US Route 131); on the south by Alabama Avenue; and generally east of US 41.

Halsey Village – Bound on the south by US Route 137 (Buckley Road); on the west by Green Bay Road (US Route 131); on the east by Lewis Avenue; and on the north by 24th Street.

Nimitz Village – Bound by US Route 137 (Buckley Road) on the south; on the west by Lewis Avenue; on the east by Ray Street; and on the north by 24th Street.

Hospital Cove – Twelve buildings situated east of the hospital at the southeast corner of the base, generally east of the hospital and west of the sewage disposal plant.

Squirrel Hollow, Mainside – Two buildings, containing a total of 15 units, are situated on the south side of Downes Drive, generally south of Ross Field.

Brick Row in the Historic District, Mainside – The twelve single family houses are situated at the eastern side of the base on Lawrence Street and Perry Street. Also included in the footprint of the subject property are 63 and 64 Decatur Avenue located in the historic district south of Ross Field, north of the Public Works Center Building 1A.

The subject site is located in Sections 4, 5, 8, and 9, Township 44 North, Range 12 East, of the Third Principal Meridian (Figure 1, Figure 2, and Figure 3).

2.2 Property and Vicinity General Characteristics

The subject site is developed with residential housing described in the following paragraphs. Refer to the Figures for building configuration and Appendix B for site photographs.

Forrestal Village

Forrestal Village contains approximately 1,447 units constructed between 1942 and 1976. The units were constructed in 12 phases (Phases 1 through 6 Wherry, Phase 7 Milcon, Phase 8 Wherry, Phase 9 Milcon, Phase 10 Capehart/OPQ, Phase 11 Townhouse, and Phase 12 Wherry). Quarters 71 was constructed in 1942. Renovations were performed on the various units between 1980 and 2002. Specifically, the renovations occurred on Phase I in 1980 and 1981; Phase 3 in 1994 and 1995; Phase 4 in 1995; Phase 5 in 1996; Phase 11, exterior renovations in 1996 and 1997; Phase 6, 8, 9, and 10 in 2003; and Phase 7 in 2002. The Forrestal Village housing units consist of a variety of types including single-story apartments, two-story units, and townhouses containing two-, three- or four-bedroom units. The units have a garage or carport and/or a storage shed. The buildings are heated via natural gas-fired furnaces and cooled by electrically-powered air conditioning units (either pad-mounted or window units). The former trailer park bound on the east by Great Lakes Drive is currently empty and was in the process of being leveled and graded at the time of the site reconnaissance.

Also included in the footprint of the subject property is Forrestal Village Landfill (also known as the Playground Landfill) located south of Virginia Street, east of Superior Street, west of the creek (Skokie Ditch), in the west central portion of Forrestal Village. Forrestal Village Landfill covers an area of approximately four-acres and was used as a controlled disposal area from 1967 to 1969. It was operated as a trench-type landfill with no burning. No hazardous wastes were reported disposed in this landfill. It contains approximately 76,000 cubic yards of refuse. Transite (asbestos-containing material (ACM)) waste has been reported in the topsoil used for the landfill cover (EBS, March 2004).

Forrestal Village also contains off-site buildings including but not limited to the Navy Lodge, recreational facilities, a chapel, day-care facilities, family housing welcome center, a school, social service facilities, the auto hobby shop and a gasoline station with car wash. Supplyside Landfill and naval operations (Supplyside) buildings are located off-site west of Superior Street and Mississippi Street.

Halsey Village

Halsey Village contains approximately 356 units constructed in the 1960's (349 units in 1960 and 7 units in 1965). The Halsey Village construction was performed in three phases, as follows: 177 units were

constructed in Phase 1, 152 units in Phase 2, and 27 units in Phase 3. The buildings are typically two-story and include 28 two-bedroom units, 265 three-bedroom units, and 63 four-bedroom units. Approximately 22 single family houses are located on Lexington Avenue, Ranger Court, Enterprise Avenue, and Saratoga Street. Renovation of Phase I was performed in 1980 and 1981; Phase 2 was performed in 1995 and 1996; and Phase 3 was performed in 2003. The buildings are heated via natural gas-fired furnaces and cooled by electrically-powered air conditioning units (pad-mounted).

Nimitz Village

Nimitz Village South contains 60 units constructed in 1969. The Nimitz Village South units were renovated in approximately 1989. Nimitz Village North consists of 150 units constructed in 1972. The Nimitz Village North two-story units were renovated during the 1990's. The buildings are heated via natural gas-fired furnaces with the exception of the Remora Place buildings in Nimitz South which are equipped with gas-fired boilers. The buildings are cooled via electrically-powered air conditioning units.

Hospital Cove

Hospital Cove contains five two-story duplex buildings in Fishbowl constructed in 1943. Three two-story duplex buildings immediately north of Fishbowl were constructed in 1962. Of the remaining four single unit structures, Building 204H located on the west side of Eleventh Street was constructed in 1927; and Buildings 201H, 202H, and 203H were constructed in 1909. The Fishbowl buildings (205H, 206H, 207H, 208H, and 209H) were originally heated via steam heat (the boiler systems have been removed from these units). Buildings 214H, 215H, and 213H are heated via natural gas-fired forced air systems and air conditioned by electrically-powered units. 201H, 202H, 203H, and 204H are heated via a natural gas-fueled boiler system (steam heat) and cooled by electrically-powered air conditioning units.

Squirrel Hollow, Mainside

Squirrel Hollow contains two buildings divided into 15 units. The units are two-story row houses constructed in 1942. The buildings are cooled via a natural gas-fueled boiler system and cooled by electrically-powered air conditioning units.

Brick Row in the Historic District, Mainside

The Brick Row houses include twelve single family two- and three-story dwellings constructed from 1908 to 1918. Buildings 63 and 64 are single family units also located in the historic district at Mainside. The buildings are heated via a natural gas-fueled boiler system and cooled by electrically-powered air conditioning units.

2.3 Current Use of Property

The subject site is developed for residential use. Forrestal Village Landfill, a former landfill, is located on the subject property. Refer to Section 2.2 for additional detail regarding Forrestal Village Landfill.

2.4 Property Improvements

The subject site is improved with sanitary sewer system operated and maintained by the NAVFAC Midwest Utilities Department, Great Lakes, and discharging to the North Shore Sanitary District sewage plant at Gurnee, Illinois. The potable water system that includes a raw-water intake in Lake Michigan, a water treatment plant, storage tanks, booster pumps, and distribution water mains is operated and maintained by the NAVFAC Midwest Utilities Department, Great Lakes. Natural gas is provided by the North Shore Gas Company. Electricity is provided by Commonwealth Edison with electrical transformers owned by the Navy. Steam is produced at the central production plant in Building 11 at NAVSTA Great Lakes. The plant is fueled by natural gas with fuel oil as an alternate fuel source. Telephone service is provided by SBC including telephone lines to the installation and within the installation (EA, December 2004).

2.5 Current Uses of Adjoining Properties

The subject property is located within NAVSTA Great Lakes in a primarily residential area of Lake County, Illinois. West of Forrestal Village is the Supplside portion of NAVSTA Great Lakes (see below for additional information). Naval operations buildings are situated to the west and northwest of Brick Row at Mainside. MACTEC conducted a visual inspection of surrounding land to identify observable potential environmental threats due to adjacent land use (refer to the Site Plan in Appendix A). MACTEC conducted the inspection from the subject property and did not enter other private properties. MACTEC observed the following surrounding properties:

Forrestal Village

Direction	Distance from subject property	Land Use	Address	Potentially Up-gradient, Cross-gradient or Down-gradient	Identified on Regulatory Databases
North	~ 200 feet	Across State Route 137, Willow Glen Golf Course	3312 Buckley Road	Cross-gradient	No
South	Adjacent	Elgin Joliet and Eastern Railroad Tracks, residential	Not applicable	Cross-gradient	No

Direction	Distance from subject property	Land Use	Address	Potentially Up-gradient, Cross-gradient or Down-gradient	Identified on Regulatory Databases
East	~ 500 feet	South to north: residential, Finch University of Health and Science, North Chicago VA Hospital	Green Bay Road	Up-gradient	Registered UST
West	~ 200 feet	South to north: Supplyside Landfill west of Skokie Ditch; west of Superior Street and Mississippi Street, Naval operations buildings	Building Numbers 3503, 3502, 3501, 3511, 3229, 3223, 3219, 3216A, 3216, 3215, 3212C, 3212A	Down-gradient	LUST, ERNS (Supplyside) Refer to Section 3.1

- Forrestal Village Buildings 3216B, 3511, 2912, 3114A, 3400 were identified as LUST sites. Due to the proximity of the site to the subject property, the following LUST site, 3511, may have the potential to environmentally impact the subject property. Based on government database information, the LUST incidents at Buildings 3114A and 2912 are not likely to impact the property (Section 2.5). The LUST incidents at 3216B and 3400 had no remaining impacted soil, and low groundwater contamination and are considered to be too far from the property to impact the property.
- Supplyside Landfill was in operation from 1969 to 1983 and is approximately 400 feet by 1,000 feet in size. It was operated as a trench-type landfill with no burning. The main components of disposed material were mixed office waste and some galley waste. No liquids, metals, or sanitary waste were accepted for disposal. Transite (ACM) waste has been reported in the topsoil used for the landfill cover. Monitoring wells associated with Supplyside Landfill are sampled quarterly (EBS, March 2004).
- Former monazite sand storage area and an area of radium contaminated soil are present on Supplyside, west of Forrestal Village near Buildings 3214 and 3215. During the 1950's through the 1980's, the Defense Reutilization Material Office maintained a yard for recycled metals. The operation consisted of crushing scrap metal and sending it to a recycler. The recycled metals included radium-containing equipment. It is possible that radium-containing equipment remains buried in this area. Elevated levels of radium in the soil were found to be at 750,000 counts per minute (cpm), while background is 5,000 cpm. These areas have been identified by the Navy as Installation Restoration sites 18 and 20. The sites are located in close proximity to the Forrestal Village housing units (EBS, March 2004 and Draft Final Report: Characterization and Final Status Survey of the Monazite Sand Area of the Great Lakes Naval Training Station, June 2000).
- Transite sanitary piping, an asbestos-containing material, may be buried in the residential areas (interview, Gary McDermott).

Halsey Village

Direction	Distance from subject property	Land Use	Address	Potentially Up-gradient, Cross-gradient or Down-gradient	Identified on Regulatory Databases
North	~ 200 feet	Across 24 th Street, commercial and residential	Not Applicable	Cross-gradient	No
South	~ 500 feet	Across State Route 137, Veterans Affairs Medical Center North Chicago	3001 Green Bay Road North	Cross-gradient	No
East	~ 200 feet	Across Lewis Avenue, Nimitz Village (residential)	Not Applicable	Down-gradient	No
West	~ 500 feet	Across Green Bay Road, Willow Glen Golf Course	3312 Buckley Road	Up-gradient	No

- As a result of demolition of housing in Nimitz Village and Halsey Village circa 1943, asbestos can be found in the soil in the area. The area has been covered with fresh topsoil. NAVSTA Great Lakes notifies contractors that asbestos may be encountered in the soil. (Environmental Baseline Survey, dated March 2004, Section 5.5). Transite sanitary piping, an asbestos-containing material, may be buried in the residential areas (interview, Gary McDermott).

Nimitz Village

Direction	Distance from subject property	Land Use	Address	Potentially Up-gradient, Cross-gradient or Down-gradient	Identified on Regulatory Databases
North	~ 200 feet	Across 24 th Street, residential, elementary school	Not Applicable	Cross-gradient	No
South	~ 500 feet	Across State Route 137, Veterans Affairs Medical Center North Chicago	3001 Green Bay Road North	Cross-gradient	Registered UST, LUST
East	~ 200 feet	South to north: across Ray Street, Great Lakes Fire Department, Naval administration buildings, Cargo Handling	Building Numbers 2016, 2017, 1709, 1715, 1600, and 1712	Down-gradient	No
West	~ 200 feet	Across Lewis Avenue, Halsey Village (residential)	Not Applicable	Up-gradient	No

- As a result of demolition of housing in Nimitz Village and Halsey Village circa 1943, asbestos can be found in the soil in the area. The area has been covered with fresh topsoil. NAVSTA Great Lakes notifies contractors that asbestos may be encountered in the soil. (Environmental Baseline Survey, dated March 2004, Section 5.5). Transite sanitary piping, an asbestos-containing material, may be buried in the residential areas (interview, Gary McDermott).

Hospital Cove

Direction	Distance from subject property	Land Use	Address	Potentially Up-gradient, Cross-gradient or Down-gradient	Identified on Regulatory Databases
North	Adjacent	Steep incline toward Crosley Road and the Inner Harbor	Not Applicable	Cross-gradient	No
South	Adjacent	Residential	Not Applicable	Cross-gradient	No
East	Adjacent	Sewage Disposal Plant	Buildings 45, 45C, 45G, 45A, 45L, 45D, 45E	Down-gradient	No
West	Adjacent	Parking lot	Not Applicable	Up-gradient	No

Squirrel Hollow, Mainside

Direction	Distance from subject property	Land Use	Address	Potentially Up-gradient, Cross-gradient or Down-gradient	Identified on Regulatory Databases
North	~ 200 feet	Across Downes Drive, Ross Auditorium	Building 110	Cross-gradient	No
South	Adjacent	Steep incline toward Crosley Drive and Inner Harbor	Not Applicable	Down-gradient	No
East	Adjacent	Mahon Road and parking lot	Not Applicable	Down-gradient (toward Lake Michigan)	No
West	Adjacent	Sampson Road	Not Applicable	Up-gradient	No

Brick Row in the Historic District, Mainside

Direction	Distance from subject property	Land Use	Address	Potentially Up-gradient, Cross-gradient or Down-gradient	Identified on Regulatory Databases
North	Adjacent	Residential, Naval buildings	Not Applicable	Cross-gradient	No
South	Adjacent	Steep incline toward the Inner Harbor	Not Applicable	Cross-gradient	No
East	Adjacent	Harbor (Lake Michigan)	Not Applicable	Down-gradient	No
West	Adjacent	Administrative buildings, Ross Field	Building 1A	Up-gradient	LUST, CERCLIS, CORRACTS, Registered UST

- The Public Works Center Building 1A houses the environmental department at NAVSTA Great Lakes. As a result, many (but not all) of the LUST incidents, registered USTs, large quantity RCRA hazardous waste generator, CORRACTS, and CERCLIS listings indicate the Public Works Center address and/or building number. In an interview (Blayne Kirsch and Mark Schultz) indicated that no environmentally significant activities are performed at Building 1A. Based on that information, the Public Works Center Building 1A is not expected to pose an environmental risk to the subject property. For additional information on the regulatory database listings, refer to Section 3.2.

Buildings 63 and 64, Mainside

Direction	Distance from subject property	Land Use	Address	Potentially Up-gradient, Cross-gradient or Down-gradient	Identified on Regulatory Databases
North	Adjacent	Naval building	110 Decatur	Cross-gradient	No
South	Adjacent	Parking lot, Public Works Center	Building 1A	Cross-gradient	LUST, ERNS, CORRACTS, CERCLIS, Registered UST
East	Adjacent	Ross Field	Not Applicable	Down-gradient	No
West	Adjacent	Parking lot	Not Applicable	Up-gradient	No

- In an interview, Navy personnel (Blayne Kirsch and Mr. Mark Schultz) indicated that no environmentally significant activities are performed at Building 1A. Based on that information, the Public Works Center Building 1A is not expected to pose an environmental risk to the subject property.

3.0 ENVIRONMENTAL RECORD SOURCES

The purpose of the record review is to obtain and review records that will help identify recognized environmental conditions in connection with the subject site.

MACTEC reviewed excerpts of federal, state, and local environmental regulatory agency lists for those properties within the search ranges as noted in the excerpts prepared by Environmental Data Resources, Inc. (EDR). EDR revises their lists periodically when they receive updates from the appropriate agencies. The date of the latest revision is shown on their report, which is appended to this report in Appendix A as *The EDR-Radius Map with GeoCheck®*. The EDR report also summarizes the origin and purpose of each list. Due to the size of the subject site, MACTEC requested that the search radii be extended 1.0-mile beyond the referenced required distances for each of the databases searched. Since the search radii presented in the EDR report extend from approximately the center of the subject site, some of the listed facilities are not accurately described within the EDR report. It should be noted that two separate database reports were obtained for NAVSTA Great Lakes. One report includes Forrestal, Halsey and Nimitz Villages; and the second report includes Mainside (Brick Row and Squirrel Hollow) and Hospital Cove. The summaries of the EDR reports are attached in Appendix C. The complete EDR reports (containing over 500 pages) are available upon request.

Please note that regulatory listings are limited and include only those sites that are known to the regulatory agencies at the time of publication to be contaminated or otherwise regulated under environmental laws or that are in the process of evaluation for potential contamination.

It should be noted that evaluations in this section include a consideration of the anticipated groundwater flow direction discussed in Section 4.2 of this report.

3.1 Standard Environmental Record Sources

ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL PRIORITIES LIST (NPL), dated 04/28/05

The Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) established the National Priorities List (NPL) of federal “Superfund” sites. This list identifies Superfund sites that have been designated as national priority clean-up sites and targeted for immediate action due to their high assigned ranking, in terms of potential public health effects, by the EPA.

- The subject site does not appear on the NPL list.
- There are no NPL-listed facilities within a 1-mile radius of the subject site.

EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS), dated 02/16/05

The CERCLIS lists and identifies suspected contamination sites throughout the nation; CERCLIS contains information on sites identified by the U.S. EPA as known or suspect abandoned, inactive, or uncontrolled hazardous waste sites which may require cleanup.

- The subject site does not appear on the CERCLIS list.
- Two CERCLIS-listed facilities were identified on the EDR report. One site, US Navy Great Lakes Naval Base, Public Works Center (PWC) Building is located west of the Brick Row buildings at Mainside. The PWC Building 1A is the address for the environmental department at NAVSTA Great Lakes and does not necessarily identify an environmental concern at that specific building. According to government database information, the facility is not an NPL site; the Discovery Assessment was completed on February 12, 1988; the Preliminary Assessment was completed on March 16, 1988; and a second Preliminary Assessment was completed on October 21, 1993. The CERCLIS site status was listed as high. Refer to Section 10.0 of this report for a discussion of the CERCLIS status of the NAVSTA Great Lakes facility.

The other site, R. Lavin and Sons, Inc. (duplicate listing) was determined to be outside the ½-mile search distance of the subject site.

EPA CERCLIS-NFRAP, dated 03/22/05

As of February 1995, the CERCLIS No Further Remedial Action Planned (NFRAP) list identifies sites that have been removed from CERCLIS. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to aid cities, states, private investors, and affected citizens to promote economic redevelopment of unproductive urban sites.

- The subject site does not appear on the CERCLIS-NFRAP list.
- There is one CERCLIS-NFRAP-listed facility within a 1-mile radius of the subject site. Coleman Cable Systems (also known as Illinois North Chicago North Shore Materials and North Shore Materials, Inc.) at 2500 Commonwealth Avenue, located approximately ½ -mile east of Nimitz Village and approximately ½ - to ¾ - miles northwest of the Mainside subject site areas. The Site Inspection was completed in September of 1995 and the site is not listed on the NPL. Based on hydraulic gradient and the distance of this site from the subject site, Coleman Cable Systems is not expected to pose an environmental risk to the subject site.

**RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM (RCRIS),
dated 03/13/05**

RCRIS NOTIFIERS LIST, is an EPA database of facilities that generate and/or transport hazardous waste. This list also serves to track the status of hazardous waste treatment, storage, and/or disposal (TSD) facilities regulated under RCRA.

- The subject site does not appear on the RCRIS list as a generator facility.
- Two NAVSTA Great Lakes buildings, US Navy Great Lakes Naval Base, Public Works Center Building and US Navy, Navy Exchange at 2601A Paul Jones Street were identified on the RCRIS list as Large Quantity Generator (LQG) facilities. RCRIS-LQG facilities generate greater than 1,000 kilograms (2,200 pounds) of hazardous waste material per month. The 2601A building is located at Paul Jones Street and Dewey Avenue, one street west of Lawrence, west of Brick Row in Mainside. One violation was listed for the Navy Exchange at 2601A Paul Jones Street. The violation, Generator-All Requirements (oversight) was issued November 13, 1985 and compliance was achieved October 30, 1986. Based on the government database information, the Navy Exchange does not appear to pose an environmental risk to the subject site at this time. The Public Works Center Building (Building 1A) is located west adjacent to the Brick Row Mainside buildings. Numerous violations are listed for NAVSTA Great Lakes citing the Public Works Center Building address. The PWC Building 1A is the address for the environmental department at NAVSTA Great Lakes and does not necessarily identify an environmental concern at that specific building. Refer to Section 10.0 of this report for a discussion of the LQG and CORRACTS listing for the NAVSTA Great Lakes facility.
- There were no additional LQG identified within the ½-mile radius of the subject property.
- Two NAVSTA Great Lakes buildings, Bath Iron Works Corporation at Great Lakes Training Center Building, and Department of the Navy at 2701 Sheridan Road, were identified as RCRIS Small Quantity Generators (SQG). RCRIS-SQG facilities generate between 100 kilograms and 1,000 kilograms (200 pounds and 2,200 pounds) of hazardous waste material per month; however, this listing does not imply that an environmental problem exists. Neither of the two facilities is located adjacent to the subject site. No violations were reported for either site. Based on the SQG regulatory status and/or distance from the subject property, neither of these facilities is identified as RECs to the subject property.

Two additional facilities, City of North Chicago Water Department at 1850 Lewis Avenue and US VA Medical Center North Chicago were identified as SQG. The City of North Chicago Water Department and the US VA Medical Center North Chicago are located in the near vicinity of Nimitz Village. No violations were listed for the identified SQG facilities. Based on the SQG regulatory status and/or distance from the subject property, neither of these facilities is identified as RECs to the subject property.

- There are no facilities reported on the RCRIS TSD list within a ½-mile radius of the subject site. The EDR report lists three RCRIS TSD facilities (R Lavin and Sons, Inc., Fansteel Inc., and Abbott Laboratories North Chicago) that appear to be beyond the ½ -mile search distance of the subject site.

CORRECTIVE ACTION REPORT (CORRACTS), dated 03/29/05

The CORRACTS list identifies hazardous waste handlers with RCRA corrective action activity.

- The subject site does not appear on the CORRACTS list.
- The US Navy Great Lakes Naval Base, Public Works Center Building was identified on the CORRACTS list. The Public Works Center Building (Building 1A) is located west adjacent to the Brick Row structures at Mainside. According to government database information, the entire facility was assigned a medium corrective action priority. The event date is listed as September 29, 1992, IEPA identification number IL7170024577. The government database information indicates that violations exist involving generator air emissions subpart AA BB CC, TSD-other requirements, Generator-general requirements, TSD-general standards, TSD-post-closure requirements, TSD-land ban requirements, TSD-preparedness/presentation requirements, and similar.
- There is one additional CORRACTS-listed facility reported within a 1-mile radius of the subject site. Abbott Laboratories at 3601 North Skokie Highway, Lake Bluff, located approximately ½-mile west of Forrestal Village. According to government database information, the entire facility was assigned a medium corrective action priority on September 27, 1991. Abbott Laboratories performs manufacturing of medical equipment and supplies. Biennial reporting year 2001 the facility generated 834 pounds of D001 waste. Multiple violations are listed regarding TSD compliance issues.

EPA EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS), dated 12/31/04

The ERNS list is a national database used to collect information on reported releases of oil and hazardous substances.

- The subject site does not appear on the ERNS list. ERNS listed spills are typically small. Significant spills appear on other regulatory lists.
- NAVSTA Great Lakes was identified with six listings on the ERNS database at NAVSTA Great Lakes. The ERNS incidents are not expected to pose an environmental risk to the subject site.

STATE LANDFILL LIST (SWF/LF), dated 11/01/04

Lists of active and inactive landfills, artificial fills, and disposal sites are maintained by the Illinois Environmental Protection Agency (IEPA). The landfill listing does not include unpermitted landfills or dumps.

- The subject site does not appear on the landfill list.
- There are no properties listed on the landfill list within a ½-mile radius of the subject site. It should be noted that Forrestal Village Landfill is located on the subject property and Supplyside Landfill is located west adjacent to the southern portion of Forrestal Village off-site from the subject property. Neither of these landfill sites was identified on the government database report.

LEAKING UNDERGROUND STORAGE TANK (LUST) LIST, dated 02/22/05

The Leaking Underground Storage Tank list is a listing of UST systems within the State of Illinois, which have reported releases of UST contents. This list is maintained by the Illinois EPA.

- No LUST incidents at the subject property were identified on the EDR report.
- Multiple LUST incidents are listed at NAVSTA Great Lakes. The LUST incidents listed in Mainside include 201 Decatur Avenue, Building 1A (multiple listings), 5703 Sheridan Road, Building 11, Navy Training Center, Building 5, Building 13, Building 325, Building 329, Building 324, Building 239, and 2703 Sheridan Road. The LUST incidents at Forrestal Village include Building 3216B, 2912 Meridian Drive, Building 2710, Building 3400, Building 3511, and Building 3402 are discussed in the information following. (The LUST incidents identified at Forrestal Village are located off-site from the subject property.)

LUST incidents issued a no further action letter by IEPA

According to government database information, the IEPA issued a no further action letter for LUST incident 990527 (listed at 201 Decatur Avenue) involving a release of diesel oil on March 5, 1999; the IEPA issued a no further action letter for LUST incident 971363 at 2912 Meridian in Forrestal Village involving a release of diesel oil reported on July 28, 1997; the IEPA issued a no further action letter for LUST incident 940230 (listed at 201 Decatur Avenue) involving a release of fuel oil, reported on January 31, 1994; the IEPA issued a no further action letter for LUST incident 971831 (listed at 2703 Sheridan Road, Building 1A) involving a release of diesel oil, reported on September 26, 1997.

LUST incidents listed as open by IEPA

- The remaining NAVSTA Great Lakes LUST incidents are listed as open by the IEPA: Incident 20011971, Incident 20010138, Incident 97179, Incident 933116, Incident 971912, Incident 942674, Incident 933115, Incident 921542, Incident 940229, Incident 931477, Incident 922929, Incident 910497, Incident 903585, Incident 922928, Incident 911532, Incident 922930, Incident 933218, Incident 22931, and Incident 903223. Based on review of information pertaining to LUST incidents at NAVSTA Great Lakes, the Mainside LUST incidents are not expected to environmentally impact the subject property based on hydraulic gradient and proximity to the subject property. Due to the proximity to the subject property to the Forrestal Village Buildings 3216B, 3511, 2912, 3114A, 3400, the potential exists for the LUST incidents at those buildings to environmentally impact the subject property. Based on government database information, the LUST incidents at Buildings 3114A and 2912 are not likely to impact the surrounding area. The LUST incidents at 3216B and 3400 had no remaining impacted soil, and low groundwater contamination and are considered to be too far from the property to impact the property.
- US VA Medical Center North Chicago at Illinois Route 137 and Veterans Administration Medical Center at 3001 and 3002 Green Bay Road were identified on the LUST database. The VA Hospital is located east adjacent to Forrestal Village and south adjacent to Nimitz Village. Based on the down-gradient and cross-gradient hydraulic location of the VA Medical Center, this facility is not expected to environmentally impact the subject site.
- The remaining LUST sites identified on the EDR report appear to be outside of the ½-mile search distance of the subject site.

REGISTERED UNDERGROUND STORAGE TANK (UST) LIST, dated 03/23/05

The Registered Storage Tank List is a listing of underground storage tank systems, which are registered with the Office of the Illinois State Fire Marshal.

- The subject site was not identified on the UST list.
- There are seven UST facilities listed at NAVSTA Great Lakes. Five listings were identified at 201 Decatur Avenue and two listings at the Naval Hospital.

The NAVSTA Great Lakes listings at 201 Decatur Avenue indicate 17 USTs (gasoline, diesel, and kerosene) at Building 1506 were removed in the 1990's.

The second listing at 201 Decatur Avenue lists a 500-gallon diesel UST at 2601A Paul Jones Street that was moved (tank status: merged).

The third listing at 201 Decatur Avenue lists 60 tanks at 2601A Paul Jones Street, all described as active with a tank status of 'does not exist' for tanks 1, 2, 3, a tank status of removed for tanks 4 through 21; AST for tanks 22 and 23; tank status of removed for tanks 24, 25, 26; tank status of exempt from registration (lube oil) for tank 27; tank status of removed for tanks 28, 29, 30, 31, and 32; tank status of exempt from registration for tank 33 (used oil); tank status of removed for tank 34, 35, and 36; tank status of does not exist for tank 37 (empty); tank status of exempt from registration for tank 38 (diesel); tank status of removed for tank 39 and 40; tank status of currently in use for tank 41 and 42; tank status of removed for tank 43, 44, and 45; tank status of currently in use for tank 46, 47, 48, and 49; tank status of removed for tank 3216, 3224, and 3225; tank status of exempt from registration (gasoline) for tank 3226 and 3227; tank status of currently in use for tank 3228 and 3229; and a tank status of exempt from registration for tank number 3230, 3231, 3232, 3233.

The fourth listing at 201 Decatur Avenue, the Naval Training Center, Building 1A, 2703 Sheridan Road, Suite 200, was identified with one heating oil UST with a closed status and a tank status of removed.

The fifth listing at 201 Decatur Avenue, the Transportation Department at Navy Public Works Center, Great Lakes, Illinois was identified with one 600-gallon used oil UST with a status of merged and a tank status of moved.

The Naval Hospital at 3001 6th Street Building 200H was identified with one 5,000-gallon active diesel UST that is currently in use. This site is located within ¼-mile west of the Buildings 204H, 201H, 202H, and 203H in Hospital Cove.

Commanding Officer Naval Hospital, Building 38H Staff Civil, Great Lakes, Illinois was identified as currently in use with one 500-gallon diesel UST and a tank status of merged.

- There is one facility identified on the registered UST list within ¼-mile of the subject site. The US VA Medical Center located south of Route 137, across from Nimitz Village was identified on the registered UST database report. Seventeen USTs are registered at the facility (nine USTs are listed as removed and eight USTs are listed as currently in use). The US VA Medical Center is also listed as a LUST site and an SQG (no violations listed). Based on the anticipated groundwater flow direction of east, this site appears to be cross-gradient to the subject property and is not expected to pose an environmental risk to the subject property.

STATE HAZARDOUS WASTE SITE (SHWS) INVENTORY LIST, dated 03/30/05.

The State HWS inventory is a list of sites other than LUST sites within the Releases database. The State HWS list is maintained by the Illinois EPA.

- The subject site does not appear on the SHWS list.
- The EDR report identified two SHWS facilities. MACTEC determined that both of the identified SHWS facilities appear to be beyond the 1-mile search distance of the subject site.

SITE REMEDIATION PROGRAM DATABASE (SRP), dated 02/14/05.

The State of Illinois Brownfields database records lists sites that have entered the Site Remediation Program.

- The subject site was not identified on the SRP database.
- The EDR report identified two SRP facilities. MACTEC determined that both of the identified SRP facilities appear to be beyond the ½ -mile search distance of the subject site.

Orphan Summary

The Orphan Summary list consists of sites with poor address quality, usually without zip code information. However, if street addresses are available, these site locations are checked against the known vicinity of the subject site to evaluate if they are located within the applicable ASTM search distance.

Forty-one listings appear on the orphan list. Of these sites, eight listings identify NAVSTA Great Lakes including seven LUST incidents and one ERNS report. The LUST locations are listed at Building 144, Building 229 / Isherwood Avenue, Building 329 / Sampson Street, Building 68H on C Street, HOLD 328, 324 Isherwood Avenue, and Building 103. The ERNS listing is listed at Ohio Street Near Building 1127 at the Training Center Great Lakes. The ERNS site and LUST sites are not located on the subject property. Building 144 is situated approximately ¼ -mile south (cross-gradient) of Squirrel Hollow. Building 68H is situated within ½-mile west (up-gradient) of the Fishbowl buildings in Hospital Cove. According to the Final Delivery Order Closure Report, LUST, dated April 2003, prepared by Toltest, Inc. of Waukegan, Illinois, these sites are in various stages of remediation to achieve closure from IEPA. Based on the hydraulic proximity and the distance from the subject property, there is a minimal potential of impact to the subject property.

Based on this information, the orphan or unmapped sites appeared to be outside the required search distance of the subject site or are considered down- or cross-gradient of the subject site and therefore are not considered to be recognized environmental concerns to the subject site.

3.2 Freedom of Information Act Requests

MACTEC contacted applicable government agencies requesting available information regarding the subject site. The status of those requests is summarized in the following table:

Agency	Contact Person	Date Contacted	Information Provided
Illinois Environmental Protection Agency (IEPA), Division of Land Pollution Control	Jan Ogden FOIA Officer	04/07/05	76.57 inches of documents found. MACTEC will conduct an onsite file review at the Agency.
IEPA, Division of Air Pollution Control	Donald Sutton, P.E. Manager, Permit Section	04/07/05	See below
IEPA, Division of Water Pollution Control	Sharyn Haney FOIA Officer	04/07/05	No documents were found for NAVSTA Great Lakes (community water well may be located within 2,500 feet of the subject property; due to security reasons this map was not provided to MACTEC.
Office of the State Fire Marshal	Denise Carty FOIA Officer	04/07/05	See below

The IEPA, Bureau of Air Pollution Control provided the following documents. (The document review summarized below pertains to NAVSTA Great Lakes and not solely to the portion of the Naval base designated as the subject property).

- Tier III Inspection performed by the IEPA on August 18, 2003 of 201 Decatur Avenue, Building 1A noted exceedance of emission limit for NO_x and emission rate for SO₂ as well as failure to keep records of fuel fired to allow calculation of allowable emission limits. Non-Agency authorized stack test on Boilers 5 and 6 indicating an exceedance of the NO_x limits. *Building 1A is situated immediately north of Quarters K and adjacent to the Brick Row residences.*
- Tier II inspection performed by the IEPA on September 29, 2003 of 941 Skokie Highway concluded that the Bituma counter flow drum dryer asphalt plant “appears to be operating in a manner consistent with contemporary air pollution control practice for minimizing emissions”.

- July 31, 2003 submission to the IEPA of CAAPP-650 (Application for Budget Permit for Non-Electrical Generating Units (NON-EGU) for Naval Station Great Lakes, Great Lakes, Illinois.
- Tier II Inspection performed by IEPA on August 27, 2002 and September 4, 2002 of Huntsman Expandable Polymers in Peru, Illinois for compliance with relevant federal and state environmental regulations. No out of compliance issues were noted.
- Perc Dry Cleaning Inspection Work Sheet for Large Area Sources, inspected on December 17, 1995, presumably by the IEPA (nowhere is this noted). The inspection summary notes that the facility is in compliance with the provisions of Title 35 and the NESHAP regulations for perc dry cleaning.
- IEPA Bureau of Air Inspection on August 18, 1995 of the Public Works Center/Great Lakes. No specific conclusions noted, however, the memo notes that a standby generator was being installed without a construction permit and another generator was in operation without an operating permit.
- September 26, 1995 Compliance Inquiry Letter from IEPA to Great Lakes Naval Station (Public Works Center) regarding apparent violations, including construction of a generator without a construction permit, operation of a generator without an operating permit, opacity greater than the allowable, etc. The letter requests a written response within 15 days.
- July 18, 1995 Inspection performed by the IEPA of the Naval Training Center (formerly the Great Lakes Naval Training Center). The memo notes that the Great Lakes Naval Training Center has been divided into two facilities – Naval Training Center and Public Works Center. No non-compliance issues were noted.
- August 30, 1994 Inspection performed by the IEPA of Great Lakes Naval Station; no non-compliance issues were noted. The September 12, 1990 operating permit for sources at Naval Training Center, Building 325, including two ship simulators, each with two propulsion engines, and two gas turbine generators was also attached.
- June 22, 1994 Letter from the Department of the Navy to the IEPA indicating when air pollution site fees for the Naval Training Center should be expected to be received.
- May 31, 1990 IEPA Inspection of Great Lakes Naval Station. No non-compliance issues were noted.
- September 1, 1993 Inspection performed by the IEPA of Great Lakes Naval Station. No non-compliance issues were noted.
- September 18, 1992 Inspection performed by the IEPA of Great Lakes Naval Station. No non-compliance issues were noted. The September 12, 1990 operating permit and the Summary of Emission Test Results (for February 21, 1989 test date) for Boiler #6 at the Public Works Center were also attached.
- July 11, 1991 IEPA Inspection of Great Lakes Naval Station. No non-compliance issues were noted. The permit and test results referenced in the previous bullet item were also attached.

- April 3, 1989 IEPA Inspection of Great Lakes Naval Station. No non-compliance issues were noted.
- September 4, 1987 IEPA Inspection of Great Lakes Fire Training Center. No non-compliance issues were noted.
- March 14, 1986 IEPA Inspection of Great Lakes Naval Station. No non-compliance issues were noted. A Joint Construction and Operating Permit, issued July 5, 1985 for the Naval Training Center (for a Kelley incinerator) was attached to the memo.
- April 6, 1983 Surveillance Inspection of Great Lakes Naval Station was performed, presumably by the IEPA. Some high opacity noted right after the load is placed in the incinerator. Also attached was an April 20, 1994 Illinois EPA inquiry letter to Great Lakes Naval Center regarding visual emissions from the incinerator, requesting an answer in writing within 21 days of receipt of the letter.
- Handwritten memo of an arranged inspection (presumably by the IEPA) at Great Lakes Naval Base to review the steps undertaken to resolve violations regarding the incinerator. Attached was a memo regarding the requirements for an operating permit for a fuel storage tank (copy quality very poor) and a field report from Brule Incinerators regarding a suggested charging schedule.
- September 1, 1983 IEPA Inspection of Great Lakes Naval Base based on a complaint from an employee at the base, alleging proper safety procedures were not being followed during asbestos demolition. The findings of the inspection included failure to have an operating permit for storage tanks, visible emissions in excess of allowables, and failure to notify the IEPA regarding asbestos renovation work. Attached was a September 23, 1983 Illinois EPA inquiry letter regarding the violations, requesting a written response. Also attached was a letter of March 11, 1983 from the asbestos contractors to US EPA notifying them of asbestos removal activities at the base.
- Routine annual inspection of Great Lakes Naval Base, October 19, 1982. No action was taken to alleviate a noted violation. Attached is a letter from the IEPA to the US Navy Public Works Center noting that operating permits for the cyclones and boilers have not yet been secured.
- Other inspection dates of Great Lakes Naval Base:
 - November 17, 1982
 - September 24, 1981
 - August 12, 1980 – a coal fired boiler is mentioned
- September 24, 1980 letter to the IEPA from the Department of the Navy with data including boiler fuel consumption.
- June 20, 1973 photos from Great Lakes Naval Training Center
- November 14, 2003 Violation Notice from IEPA to Naval Training Center – appears to be associated with the first item on this list, the Tier III Inspection from the same date.

- December 30, 2003 Compliance Commitment Agreement (CCA) from the Department of the Navy to the IEPA in response to the violation notice issued on November 14, 2003. Attached to the letter was an October 30, 2003 letter from the Department of the Navy to the IEPA to self-report apparent non-compliance with a permitted emission rate and a May 19, 2003 Construction Permit for a Cogeneration Facility at Naval Training Center. The October 30, 2003 letter indicated the following attachments:
 - Excerpts from the Clean Air Act Permit Program (CAAPP) permit application for Naval Training Center
 - Miscellaneous stack test info, from 1989 and 1997
 - November 1, 2002 Construction Permit Application for Cogen and Fuel Oil Conversion projects at Great Lakes Naval Training Center
- April 9, 2004 Revised CCA, including the same attachments as previously and also including fuel oil sulfur analysis results.
- January 16, 2004 letter to IEPA noting a delay in boiler testing due to an operational problem.
- May 3, 2004 letter from IEPA to Naval Training Center accepting their proposed CCA, submitted on April 9, 2004.

The OSFM provided the following documents pertaining to registered Underground Storage Tanks (USTs). (The document review summarized below pertains to NAVSTA Great Lakes and not solely to the portion of the NAVSTA Great Lakes designated as the subject property).

- Notification for USTs, ID Number 2035687, for Building 1A, 2703 North Sheridan Road, received May 28, 1997, indicating that a 2,000-gallon heating oil UST installed in June of 1970 were last used in September 1989 were out of service. An Application for Permit for Removal of the UST, dated June 27, 1997 stated that two heating oil USTs were removed and that the USTs appeared to have leaked. The Log of UST Removal indicates that multiple corrosion holes were observed in the UST and that petroleum odor and discoloration were noted at the time of removal.
- Notification for USTs, ID Number 2035687, Amended, received at IEPA August 19, 1997, for Forrestal Fire Station, Building 2912 at 2912 Meridian Street, stating that the 2,000-gallon heating oil UST was removed July 28, 1997, last used 1989.
- The IEMA Field Report, Incident Number 971363, indicates that a minor / unknown amount of diesel oil was released behind the building, July 28, 1997 due to holes in the tank. The estimated spill extent was 120 cubic yards.

No additional documents were provided by the OSFM.

3.3 Threatened and Endangered Species

MACTEC contacted applicable government agencies requesting a database search for threatened and endangered species at the subject site.

Agency	Contact Person	Date Contacted	Information Provided
Illinois Department of Natural Resources (IDNR)	Richard Nelson Field Supervisor	04/07/05	Response pending
US Department of the Interior, Fish and Wildlife Service	Kathy Pollack, FOIA Coordinator	04/07/05	See below

Additional information was requested and provided to the US Department of the Interior, Fish and Wildlife Service including a site specific map of the subject property. The US Department of the Interior, Fish and Wildlife Service indicates that based on the information MACTEC provided, it does not appear that the project is likely to adversely affect any federally threatened or endangered species or adversely modify critical habitat of such species. The letter states that this precludes the need for consultation on this project in accordance with Section 7 of the Endangered Species Act of 1973, as amended. Further noted, that the information provided is valid only for one year or until new information becomes available that indicates endangered or threatened species may be affected.

MACTEC is awaiting response from the IDNR. MACTEC will notify Forest City in writing upon receipt of outstanding responses. Refer to Section 8.9 for a review of existing information regarding Threatened and Endangered Species.

4.0 PHYSICAL SETTING SOURCES

4.1 Topographic Map

The Waukegan, Illinois Quadrangle, U.S. Geological Survey, 7.5 minute, Topographic Map was reviewed for the subject site. NAVSTA Great Lakes is located in Sections 4, 5, 8, and 9, Township 44N, Range 12E. The Waukegan, Illinois map is dated 1960, photo revised 1972 and 1980. The map shows the subject site developed with the NAVSTA buildings and housing. The subject site is situated at an elevation which ranges from approximately 580 feet above mean sea level to approximately 700 feet above mean seal level at the western boundary of the naval base. As stated in the Environmental Baseline Survey, prepared by Project Resources, Inc., dated March of 2004, the land surface is generally flat with deeply incised branching ravines containing Skokie Ditch and its tributaries. Skokie Ditch discharges into Lake Michigan and forms two branches that trend north and south approximately 24,000 feet west from the discharge point. Refer to Figure 1 in Appendix A.

4.2 Geologic, Hydrogeologic, and Hydrologic Conditions

The subject site and surrounding area are located in the Wheaton Morainal Complex of the Great Lakes Section of the Central Lowland Province. NAVSTA Great Lakes is part of the Bluff-Ravine sub-complex characterized by level lands that are bordered by steep bluffs that face Lake Michigan and a network of interior ravines. The geology of Lake County is described as unconsolidated glacial till overlying Silurian age dolomite (TurnerCollie & Braden Inc., 2000). The most recent period of glaciations is primarily responsible for present-day landforms. The unconsolidated glacial deposits range in thickness from 100 to 300 feet.

NAVSTA Great Lakes is situated within two major drainage basins. Green Bay Road, which runs north to south through the base, was constructed on a topographic high which serves as a divide between the Lake Michigan Watershed and the Mississippi River Watershed. Areas east of Green Bay Road drain toward Lake Michigan. Areas to the west drain toward the Mississippi River through a system of tributaries and rivers (NAVSTA Great Lakes Environmental Department, 2003).

According to the EDR report, which contains information from the U.S. Department of Agriculture's Soil Conservation Services, the surficial soils at the subject site area are classified as MORLEY. A generalized geologic description from ground surface to bedrock is 100 to 150 feet of fine-grained till underlain by 10 to 50 feet of sand and gravel. The sand and gravel is underlain by 10 to 50 feet of fine-grained till, which is positioned over Silurian-age dolomitic bedrock (TurnerCollie & Braden Inc., 2000).

Soils at NAVSTA Great Lakes are derived from glacial till deposited 600,000 years ago and consist of poorly sorted mixture of silts, clays, sands and pebbles (Environmental Baseline Survey, Project Resources, Inc., March 2004).

There are five water-bearing hydrogeologic units located beneath NAVSTA Great Lakes. These aquifers are order of increasing depth below surface: the Glacial Drift, the Silurian Dolomite, the Glenwood St. Peter Sandstone, the Ironton-Gales Sandstone, and the Mount Simeon Sandstone. In most areas of NAVSTA Great Lakes, the water table is generally within 10 feet of the ground surface and will intersect the surface in low-lying areas. The shallow water table intersects Skokie Ditch after periods of heavy rainfall. Groundwater movement is primarily horizontal through the till, and rates of movement are slow due to low hydraulic conductivities. It is expected that shallow groundwater flows to the east toward Lake Michigan at the portion of the subject property situated east of Green Bay Road (Halsey Village, Nimitz Village, Hospital Cove, and Mainside).

The topography of NAVSTA Great Lakes is generally characterized as flat with deeply incised, branching ravines containing Skokie Ditch and its tributaries. The major portion of the base is situated on a bluff, along the western shores of Lake Michigan. A topographic map review indicates an easterly gradient, towards Lake Michigan. However, further review indicates that NAVSTA Great Lakes is located within two major drainage basins. Green Bay Road, which runs north to south through the base, was constructed on a topographic high which serves as a divide between the Lake Michigan Watershed and the Mississippi River Watershed. Areas east of Green Bay Road drain toward Lake Michigan. Areas to the west drain toward the Mississippi River through a system of tributaries and rivers (NAVSTA Great Lakes Environmental Department, 2003).

Groundwater flow is discussed in this report as being up-gradient, down-gradient or cross-gradient in relation to the subject site. A site that is up-gradient from the subject site has the potential for impacting the site as the groundwater is migrating toward the subject site. A site that is down-gradient has little potential for impacting the subject site since the groundwater is directed away from the subject site. A site that is cross-gradient has limited potential for impacting the subject site since the groundwater is not migrating from the site in the direction of the subject site.

5.0 HISTORICAL SOURCES

Emphasis was placed on identifying on-site and off-site environmental conditions most likely to:

- Adversely affect the future site development and usage.
- Present financial liabilities to site owners and developers.
- Be of concern to the various regulatory agencies, in so far as site conditions are covered by current environmental regulations.

The historical search dates back to 1908, which is the earliest record of reasonably available historical information. Sources for this review included aerial photographs, document review, interviews and a topographic map.

The NAVSTA Great Lakes has been in operation since 1911 to support naval training including the Corp School, the Recruit Training Command, and the Training Support Center. The subject site includes residential buildings constructed as early as 1908. The Brick Row houses at Mainside were constructed between 1908 and 1918. The Brick Row houses are in the Great Lakes Historic District which consists of approximately 193 acres located at the east side of the base. The original buildings on NAVSTA Great Lakes were constructed between 1906 and 1911 and include representative buildings and structures of the World War I era (NTC Great Lakes, 2001).

The Squirrel Hollow row house buildings at Mainside were constructed in 1942. The buildings in Fishbowl in Hospital Cove were constructed in 1943. The other Hospital Cove buildings 201H, 202H, and 203H buildings were constructed in 1909; 204H was constructed in 1927; and the 213H, 214H, and 215H were constructed in 1962.

The houses at Forrestal Village were constructed in various phases from 1951 to 1976 with renovations beginning in the 1980's through 2003. Nimitz Village housing was constructed in 1969 (Nimitz South) and 1972 (Nimitz North). The majority of the Halsey Village buildings were constructed in 1960 with a few structures built in 1965.

5.1 Historical Aerial Photographs

MACTEC obtained copies of aerial photographs from the Soil and Water Conservation District of Lake County on May 19, 2005. Historical aerial photographs dated 1939, 1947, 1954, 1961, 1967, 1974, 1980,

1985, 1993, 2000, and 2004, were reviewed to assist in determining past uses of the subject site. Refer to Appendix D for copies of selected aerial photographs.

1939

The 1939 aerial photograph shows the western portion of the base (Mainside). The areas of Squirrel Hollow and Brick Row are not clear on the photograph. The aerial photograph does not show the areas of Hospital Cove, Forrestal Village, Nimitz Village, and Halsey Village. A portion of the golf course located to the south of the base is visible on the photograph. In the area surrounding Squirrel Hollow and Brick Row, many of the currently existing buildings are visible on the aerial photograph.

1946

The 1946 aerial photograph show the existing buildings at Squirrel Hollow and Brick Row at Mainside. At Hospital Cove., the Fishbowl buildings and 201H, 202H, 203H, and 204H are visible on the aerial photograph. The area to the north of the Fishbowl buildings is occupied by dormitory type structures. Forrestal Village, Nimitz Village, and Halsey Village are not shown on the 1946 aerial photograph. The areas surrounding Squirrel Hollow, Brick Row, and Hospital Cove appear to be generally developed on the photograph.

1954

Conditions on the subject property and in the surrounding areas appear consistent with the 1946 aerial photograph. Forrestal Village, Nimitz Village, and Halsey Village are not shown on the 1954 aerial photograph.

1961 and 1967

The aerial photographs resemble the 1954 aerial photograph. The eastern portion of Forrestal Village and Halsey Village are visible on the aerials. The area where Nimitz Village currently exists is shown as a residential area. The Veterans Affairs Medical Center North Chicago complex and the area currently occupied by Recruit Training Command are visible on the photographs. The golf course to the north of Forrestal Village and to the north of Halsey Village is visible on the aerial photographs. The golf course to the south of the base is shown on the photographs.

1974, 1980, 1985, 1993.

The aerial photographs resemble the 1967 photograph with the exception of Nimitz Village which appears to be complete in the 1974 and later photographs. The areas surrounding the subject property remains consistent with the earlier photographs.

5.2 Sanborn Fire Insurance Maps

MACTEC contracted EDR to search their files for Sanborn maps for the subject site. In response, EDR indicated they have no Sanborn map coverage of the subject site or adjacent properties. Refer to Appendix E for Sanborn Map Documentation.

5.3 State Historic Preservation Office

MACTEC submitted a request to the State Historic Preservation Office (SHPO) to determine whether or not the subject property was listed on the historical preservation database.

Agency	Contact Person	Date Contacted	Information Provided
State Historic Preservation Office	Anne Haacker Deputy SHPO Officer	06/03/05	Response pending (see below)

MACTEC will notify Forest City Washington in writing upon receipt of the SHPO reply. Refer to Sections 8.7 and 8.8 for additional information.

5.4 Environmental Document Review

MACTEC personnel requested previously prepared environmental reports and any environmentally related documents pertaining to the subject site. NAVSTA Great Lakes made documents available and obtained documents at MACTEC's request.

The Environmental Assessment for the Privatization of Family Housing (EA), Naval Station Great Lakes, Illinois prepared for Department of the Navy, Naval Facilities, Engineering Field Division South, 2155 Eagle Drive, North Charleston, South Carolina 29406, dated December 2004, provided a general overview of NAVSTA Great Lakes.

RCRA and CORRACTS

The EA indicates that NAVSTA Great Lakes initially submitted a RCRA hazardous waste operating permit in 1980 and that it was later withdrawn from consideration. Site investigation activities conducted in 1986 were initiated as a result of the initial RCRA permit application. Since the RCRA permit application was withdrawn, NAVSTA Great Lakes has not operated under RCRA as an interim status facility. NAVSTA Great Lakes has registered with the United States EPA and the IEPA as a LQG, identification numbers 097125504 and IL7170024577, respectively. Most of the hazardous waste generated and stored at the facility results from service and maintenance activities. In particular, dry cleaning and painting operations generate the largest volume of hazardous waste. In 1998, NAVSTA Great Lakes closed 11 hazardous waste satellite accumulation areas (US Navy 1998b). To do so, closure investigations were conducted under the Navy Environmental Compliance Account (NECA) (U.S. NAVY, 1990c). Currently, there are thirteen (13) hazardous waste accumulation areas, eleven (11) of which are satellite hazardous waste accumulation areas (U.S. Navy, 2002b).

CERCLIS information

The Navy developed the Navy Assessment and Control of Installation Pollutants (NACIP) program to identify and control environmental contamination from past use and disposal of hazardous substances. The NACIP is part of the Navy's Installation Restoration Program (IRP), and is similar to the EPA's Superfund Program authorized by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (U.S. Navy, 1986). The NACIP at NAVSTA Great Lakes has progressed through staged investigations. Phase I, the Initial Assessment Study (IAS), was conducted in 1986. The investigation identified 14 IR sites as having a potential for environmental contamination and proposed seven sites for additional investigations or confirmatory sampling. Based on the recommendations of the IAS, the Navy schedules Confirmation Studies for those IR sites that have been determined by scientific and engineering judgment to be potential hazards to human health and the environment (U.S. Navy Demolition EA, 2004). (It should be noted that two IR sites are located on the subject property, the Forrestral Village Landfill and IR site #13G demolition debris at the southwestern corner. It is MACTEC's opinion that IR site #13G contains construction debris from the housing and is not considered a recognized environmental condition to the subject property. The following IR sites are off-site in the near vicinity of the subject property: IR site #3 Supplyside Landfill, IR site 18 Monazite Sand Storage Area, IR site #14G Coal Storage Areas, and IR site #20 Radium Contaminated Soil).

Environmental Baseline Survey (EBS), Public/Private Venture Housing Privatization, Naval Station Great Lakes, Great Lakes, Illinois, dated March 2004, provided a general overview for NAVSTA Great Lakes.

Underground/Aboveground Storage Tank information

The following active USTs and ASTs are located in off-site buildings at Forrestal Village: three USTs are active at Building 2710, the gasoline service station in Forrestal Village. The tanks were installed in 1995 and include two 15,000-gallon gasoline USTs and one 12,000-gallon gasoline UST (Tank Numbers T-95-2710A, B, and C). Two 250-gallon waste oil ASTs are situated within Building 2110, the Auto Hobby Center in Forrestal Village. The USTs were installed in 1992.

A list of additional documents reviewed appears on the following pages.

DOCUMENT REVIEW SUMMARY
PHASE I ENVIRONMENTAL SITE ASSESSMENT
GREAT LAKES

Subject	Title	Date	Prepared By	Summary
LUST 18 sites	Final Delivery Order Closure Report, LUST, Relative Risk Ranking Sampling, 18 Sites, Great Lakes Naval Training Center, Great Lakes, IL	April 2003	TolTest, Inc., 1000 S. Northpoint Blvd, Waukegan, IL 60085	The Closure Report includes risk ranking and analytical results (soil and groundwater) for the following sites: Bldgs 1, 13, 68H, 90, 103, 106, 144, 229, 239, 324, 329, 2912, 3114A, 3216B, 3400, 3402, and 3511. (These bldgs are off-site from the subject property.)
UST Closure Bldg 3216 Forrestal	Response to the Delivery Order Closure Report Comments, Delivery Order No. 0037, Building 3216 UST Removal, Great Lakes Naval Training Center, N68950-00-D-0200	October 2003	TolTest, Inc. of Waukegan, IL	Response from TolTest to comments by the Navy to the Final Delivery Order Closure Report (listed above) including directional revisions, date changes, incorrect year, and the like. (Building 3216 is on Supplyside, off-site west of the subject property Forrestal Village housing.)
UST Closure Bldg 3216	Final UST Closure Report, Building 3216, Naval Station Great Lakes, Great Lakes, IL	October 2003	TolTest, Inc. of Waukegan, IL	TolTest removed two 4,000-gallon double-wall fiberglass USTs located in a grass island north of Bldg 3216. USTs (one gasoline and one diesel) were installed in 1993 to replace four leaking USTs. Samples indicated high PNAs in the soil. Navy believed this was caused by prior LUST incident. Lead in soil and groundwater was higher than background. Concentrations exceeded the ingestion pathway threshold for commercial and industrial sites, therefore, an engineered barrier should be maintained in this area to prevent human exposure. (off-site Supplyside, west across Skokie ditch from the Forrestal Village housing.)

LUST (CACR) Bldg 3216	Corrective Action Completion Report, Building 3216B, Great Lakes Naval Training Center, Great Lakes, IL Incident #2 20011971 and 992703, prepared for IEPA, Bureau of Land	January 2003	Versar Inc., 200 West 22 nd Street, Suite 250, Lombard, IL 60148	Bldg 3216B is a vehicle maintenance building; free product was pumped in 1999; 300 gallons of free product and water was pumped in 2002 from RW-1; no free product encountered after 12/18/2002 recovery event; groundwater was encountered at 5' bgs within fill perched on observed unsaturated silty clay till; not a high priority recovery event; quantity of contaminated media remediated/recovered totals 120cy soil; 650gals gw, 10gals free product. (off-site)
LUST 45-Day /free product Bldg 3216B	45-Day Report and Free Product Removal Report prepared for IEPA, Bureau of Land	TolTest, Inc. of Waukegan, IL	February 18, 2000 (45-day rpt) December 1999 (Free Product Removal Report)	LUST incidents 992703, IEPA Generator # 0971255004, Building 3216B, Naval Training Center, Great Lakes, IL, petroleum, groundwater and free product encountered; 3,500-gallon diesel UST, permanently removed. (off-site)
LUST Forrestal Bldg 2912	45-Day Report and Corrective Action Completion Report for Building No. 2912, Naval Training Center, Great Lakes, IL	TolTest, Inc. of Waukegan, IL	September 10, 1997	Heating oil UST, 105cy excavated, not a high priority CAP, method of remediation-soil excavation & disposal to landfill, no groundwater impact. Sampling results were below TACO, Table B: Tier 1 gw and soil cleanup objectives for residential properties for soil cleanup objectives: ingestion, inhalation and migration to groundwater route class 1. <u>NFR granted 10/7/04</u> (adjacent to subject property in Forrestal Village)
LUST Forrestal Bldg 2710	Building 2710, Great Lakes Naval Training Center, Report of Findings-Preliminary Subsurface Assessment	OHM Remediation Services Corporation, Midwest Region Tech	May 24, 1996	Fuel station; odors reported resulting from a conduit line leak at north side of the old bldg; original two leaded gas USTs 1966 and 3 rd UST fiberglass 12,000-gal 1975; 3 USTs replaced in 1990's with two 12,000-gal & one 15,000-gal USTs; high perched water table; surface runoff toward west; three MWs installed; 28 soil samples analyzed for BTEX & lead. Results indicate BTEX northwest of old bldg; lead not

		Serv Dept		a contaminant of concern. (adjacent to subject property in Forrestal Village)
LUST Forrestal Bldg 2710	20-Day Certification and the 45- Day Report, Naval Training Center Building 2710, Great Lakes, IL LUST Incident No.910497	Beling Consultants, 1001 16 th St, Moline, IL 61265	April 1998	Material released-gasoline; early action 445cy backfill material excavated; 1,790cy native soil excavated; release due to overfill estimated at 20-30 gallons. (adjacent to subject property in Forrestal Village)
LUST Forrestal Bldg 2710	Corrective action Plan, Naval Training Center Building 2710, Great Lakes, IL LUST Incident #91047	Beling Consultants of Moline, IL	October 1998	CAP high priority, gasoline release, remediation method for soil – in- situ bioremediation initially, followed by a Tier 2 assessment, if necessary for closure; groundwater – bioremediation in a closed loop system to help maintain hydraulic control, followed by a Tier 2 assessment if necessary for closure. GW contamination extends to middle of Meridian Drive. Three plans (short-term; medium term; total attention plan) for closure. (adjacent to subject property in Forrestal Village)
LUST Forrestal Bldg 2710	Site Classification Completion Report, Naval Training Center, Building 2710, Great Lakes, IL Lust Incident #910497	Beling Consultants of Moline, IL	June 1998	Method 2 was chosen to remediate. Since the 1996 groundwater investigation prepared by OHM did not define the plume of contamination, a second groundwater investigation was conducted. (adjacent to subject property in Forrestal Village)
Radiological Forrestal near Bldg 3214 & 3215	Draft Work Plan for Radiological Remediation and Final Status Survey at Great Lakes Naval Training Center, Great Lakes, IL	Cabrera Services, Inc., 801 Main St, East Hartford, CT 06108	November 2001	Remediation work plan for soils formerly used by the Navy as a storage area for strategic quantities of monazite sands, a thorium- bearing material. Scope of work included removal of soil north of the warehouse having combined activity concentrations of Th-232 and Ra-226 >5pCi/g greater than background (north fence area); elimination of a large dirt pile (100'x50'x16', 3,000cy) of exhumed soil in the northwest corner of site. The soil pile contains suspect

				levels of Th-232 and may have discrete radium instruments and articles buried at the base of the pile.
Radiological Forrestal near Bldgs 3214 & 3215	Draft Final Report: Characterization and Final Status Survey of the Monazite Sand Area of the Great Lakes Naval Training Station – Great Lakes, IL	Cabrera Services, East Hartford, CT	June 2000	Final status survey consisted of a 100% gamma walkover survey and sample collection and analysis. Sample collection was limited to the surface (0 to 6 inches). Three areas of elevated radioactivity were found above background. Chemical analyses were performed on eight samples for disposal. No hazardous chemical contamination. (off-site Supplyside, west of Forrestal Village housing)
Env Assess Privatization of Family Housing	Final EA, Public-Private Venture Housing, NAVSTA Great Lakes, IL	Dept of Defense, Dept of the Navy	December 2004	Finding of No Significant Impact (FONSI) for the Proposed Privatization of Family Housing at Naval Station Great Lakes, IL. No Environmental Impact Statement is required.
Existing Conditions Investigation Supplyside (west of Forrestal)	ECI and Proposed Modifications to Landfill Cover System Supply Side Landfill Naval Station Great Lakes, IL	Versar, Inc.	August 2003	Recommendations to modify existing landfill cover system to achieve reg compliance and promote reuse of the Site by the Navy. 33 soil borings; 5 temporary MW, screening of landfill gas at 23 locations. Summary: Existing methane gas vent system has limited effectiveness since many of the vents do not appear to extend through the existing cover system into the underlying waste. Recommendations: new passive gas venting system. (off-site west of Forrestal Village)
Forrestal Landfill SUBJECT PROPERTY	Project Plans and Report Final Cover Study – Forrestal Landfill, Great Lakes, IL	Clayton Group Services	May 5, 2004	Report provides engineering analysis and review of existing soil cap of the Forrestal landfill to provide design improvements to the cap. Lab testing showed only one sample with detected VOC (acetone) and two metals (lead and selenium) concentrations above Class 1 GW cleanup standards. Conclusions: very little methane is being

				generated and generated at a minor rate; and the amount of putrescible materials seen in the boring cores was very low. Conclusions: passive venting is appropriate management plan. (subject property)
Forrestal Landfill & Supply Side Landfill Subject Property and off-site Supplieside (Forrestal)	Document AA 2.4.1 Forrestal Landfill and 2.4.2 Supplieside Landfill (Sites not recommended for confirmation study)	Not Listed	Not Listed	Forrestal landfill – first controlled disposal area used by Great Lakes; operated in 1967 and ended in 1969. 4-acres located between Superior Street and Skokie Ditch, south of Virginia Court. Trench-type landfill (no burning); estimated to contain 76k cy refuse; no hazardous materials disposed in this landfill. Degradation materials- alcohol & methane. Skokie Ditch (east boundary) is likely pathway for waterborne materials leaving the site. Supplieside landfill – located in SWC of Gt Lakes, adjacent to the activity boundary and south of the Supply Dept Warehouse (Bldg 3503), extends almost to the westward ext of Alabama Ave; 1985 regraded with final cover (seeded); Skokie Ditch lies east adjacent; to west is Comm Ed right-of-way. Landfill operated 1969 to 1983; trench type landfill activity on either side of RR spur; 400’ by 1000’; wastes included mixed ofc waste and galley waste (no liquids, metals, or sanitary wastes); chemicals likely include spent chem. Cleaners, solvents, oils, rags, ink. Landfill is currently being monitored (soil & GW) approved monitoring program by IEPA.
Forrestal Landfill	Delivery Order Completion Report, Forrestal Landfill Boundary Delineation (IR Site 2) Demolition Debris Disposal Area (IR Site 13G) Naval Training Center, Gt Lakes, IL	ToI Test, Inc. of Toledo, OH	September 2000	Purpose was to delineate boundaries of IR site 2 (Forrestal Landfill) and IR site 13G (demolition debris disposal area). 88 geoprobe borings were performed, 40 and 48, respectively. Extent of landfill estimate is 75,000 sf. Extent of demo debris estimate is 90,000 sf. Demo debris consisted of concrete, asphalt, tires, and utility poles.

6.0 SITE RECONNAISSANCE

6.1 Introduction

The site inspections of the subject property were performed on July 18, 19, 20, 21, and 22, 2005, by Ms. Benita Theleen of MACTEC. Mr. Gary G. McDermott, Housing Manager, Facilities Management Division at NAVSTA Great Lakes, met with Ms. Theleen to discuss the subject site and assist in identifying and accessing the vacant housing units.

6.2 Methodology Used and Limiting Conditions

A representative number of vacant units were viewed at each of the areas of the subject site. In Forrestal Village, Halsey Village, and Nimitz, MACTEC viewed the interior and exterior of a representative number of unoccupied units in each of the construction phases (e.g. Phases 1 through 12, Wherry, Milcon, Capehart/OPQ, and Townhouse in Forrestal; three phases in Halsey; and two phases in Nimitz Village). In Hospital Cove, MACTEC viewed a representative number of vacant units in each of the configurations of construction. MACTEC did not enter the unoccupied Building 204H due to safety concerns based on the condition of the building. In Squirrel Hollow Mainside, MACTEC viewed the interior and exterior of the two vacant units in the row house area and in Brick Row Mainside, MACTEC viewed the interior and exterior of Buildings K and C (the only vacant units on Brick Row). MACTEC did not enter Buildings 63 and 64 at Mainside since these units were occupied at the time of the site reconnaissance. MACTEC walked the perimeter of the subject property and viewed all exterior and adjacent areas.

6.3 Electrical/Hydraulic Equipment

Electricity is provided to the subject property by Commonwealth Edison. According to the EA, dated December 2004, NAVSTA Great Lakes purchases approximately 92% of its electrical power from Commonwealth Edison. The other eight percent of power is provided by steam turbines in Building 11 at NAVSTA Great Lakes. Electrical transformers at the subject property are owned by the Navy. Electricity is provided to Forrestal Village and Halsey Village through pole-mounted electrical transformers. A transformer sub-station was observed in the northwestern portion of Forrestal Village, east of the baseball field adjacent to Vermont Court. Electricity is provided to Nimitz Village, Hospital Cove, and Mainside through underground cable and pad-mounted transformers. PCB-containing transformers on the base were changed out over a period of time in the 1980s. Records show that the hydraulic fluid from each electrical transformer was drained and replaced with non-PCB containing fluids between 1980 and 1988 (*Environmental Baseline Survey, Public/Private Venture Housing Privatization,*

Naval Station Great Lakes, Great Lakes, Illinois, dated March 2004; and confirmation of this information by Gary McDermott).

Based on the age of the buildings in Squirrel Hollow, Brick Row, Buildings 63 and 64, and Hospital Cove, it is possible that mercury switches and PCB-containing light ballasts and/or fluorescent lighting exist at the subject property. Mercury switches have reportedly been discovered and changed out in some of the older buildings at the base (NAVFAC MW Environmental Department interview).

No hydraulic equipment was observed at the subject site during the site reconnaissance.

6.4 Underground Storage Tanks (USTs)

MACTEC did not observe evidence of USTs (e.g., fill ports or vent pipes) at the subject site during the site reconnaissance.

6.5 Aboveground Storage Tanks (ASTs)

MACTEC did not observe ASTs at the subject site during the site reconnaissance.

6.6 Chemical Storage

MACTEC did not observe oil or chemical storage at the subject site during MACTEC's site reconnaissance.

6.7 Spills/Stains

MACTEC did not observe stained soils or other evidence of spills during the site reconnaissance.

6.8 Soil and Pavement Disturbances

The former trailer park west of Great Lakes Drive and north of California Avenue in Forrestal Village was undergoing grading and leveling at the time of the site reconnaissance. Buildings at the south end of Forrestal Village (south side of Alabama Avenue) were previously demolished. No environmentally significant soil and pavement disturbances were noted in the former building areas.

The former Forrestal Village landfill is situated north of Virginia Avenue and east of Superior Street. The former landfill area is grass-covered and fence-enclosed with signage prohibiting entry without a hard hat. MACTEC observed the former landfill from the exterior of the fence enclosure.

6.9 Miscellaneous Debris

MACTEC did not observe miscellaneous debris at the subject site during the site reconnaissance.

6.10 Wells

MACTEC did not observe potable water wells at the subject site during the site reconnaissance. Monitoring wells were reported to exist at the subject site in the area east of Skokie Ditch east of Supplyside Landfill and at the Forrestal Village Landfill (NAVFAC MW Environmental Department interview).

6.11 Waste Disposal

General refuse is removed on a weekly basis from the subject site and transported for disposal to nearby landfills in Zion by Browning Ferris Industries (BFI) and Grayslake (Countryside).

6.12 Pits, Ponds or Lagoons

MACTEC did not observe pits, ponds or lagoons at the subject site. A creek (Skokie Ditch) was observed in the western portion of Forrestal Village. Lake Michigan is situated east of the subject site on Mainside at the base.

6.13 Wastewater Discharge

MACTEC did not observe evidence of wastewater discharge at the subject site other than from sanitary purposes.

6.14 Drains and Sumps

Floor drains were observed in the houses equipped with basements. A sump was observed in the basement of 2157 Hawaii Avenue in Forrestal Village. The house with the sump is a Capehart/OPQ building constructed in 1962, remodeled in 2003. Sumps were not observed in the other buildings viewed. No staining or odors were noted in the vicinity of the drains or sump. Information was not provided indicating where the floor drains and sump discharge.

6.15 Stressed Vegetation

MACTEC did not observe stressed vegetation during the site reconnaissance.

6.16 Septic System

MACTEC did not observe evidence of a septic system at the subject site.

6.17 Odors

MACTEC did not note unusual or noxious odors at the subject site at the time of the site reconnaissance.

6.18 Pools of Liquid

MACTEC did not observe pools of liquid at the subject site at the time of the site reconnaissance.

6.19 Railroad Tracks

No railroad tracks are located on the subject site.

7.0 INTERVIEWS

The following individuals associated with the subject property were interviewed regarding the subject property and surrounding area:

- Mr. Gary McDermott, Housing Manager, Facilities Management Division, NAVSTA Great Lakes, Great Lakes, Illinois, provided information regarding the history and the current conditions at the subject site.
- Ms. Toni Greis, Management Assistant, Great Lakes Navy Family Housing, provided historical and current information regarding Mainside, Halsey Village, and Nimitz Village.
- Mr. Blayne Kirsch, NAVFAC Midwest Environmental Director, provided information regarding history at the subject property. Mr. Kirsch indicated that he was informed of an approximately 500-gallon UST that was buried between Buildings 3132 and 3136 at Forrestal Village.
- Mr. Mark Schultz, Environmental Officer, Navy Public Works Center, NAVFAC MW Environmental Department, Great Lakes, Illinois, provided information regarding historical and current conditions at the subject property.
- Ms. Marcia Lee, Environmental Engineer, Navy Public Works Center, NAVFAC MW Environmental Department, Great Lakes, Illinois, provided information regarding historical and current conditions at the subject property.
- Mr. Carlo L. Luciano, P.E, Environmental Engineer, NAVFAC MW Environmental Department, Great Lakes, Illinois, provided information regarding historical and current conditions at the subject property.
- Ms. Jan Ogden, FOIA Coordinator, Bureau of Land, Illinois Environmental Protection Agency, was contacted by MACTEC based on the volume of documents IEPA indicated are available for review for NAVSTA Great Lakes.

8.0 ADDITIONAL SERVICES

In conjunction with this Phase I ESA, MACTEC attempted to obtain and review readily available information regarding each of the following non-ASTM additional issues.

8.1 Radon

MACTEC reviewed radon results for Mainside, Halsey Village, Nimitz Village, and Forrestal Village dating back to 1991. Results indicated radon levels at buildings in each of these areas which exceeded the US Environmental Protection Agency action level of 4pCi (picoCuries). It should be noted that not all housing units were sampled. A representative number of units were sampled in each area. The buildings having radon results which exceeded the action level in their most recent sampling are listed below.

Location-Site	Building No.	Address	Radon Test Date	Radon Test Results
Forrestal	2153	2153 HAWAII AVE	10-Apr-02	4.6
Forrestal	2343	2343B CALIFORNIA AVE	30-Mar-05	9.6
Forrestal	2343	2343A CALIFORNIA AVE	31-Mar-05	25.2
Forrestal	2381	2381A DELAWARE AVE	31-Mar-05	9
Forrestal	2381	2381B DELAWARE AVE	31-Mar-05	9
Forrestal	2384	2384B DELAWARE AVE	31-Mar-05	11.1
Forrestal	2384	2384A DELAWARE AVE	31-Mar-05	13.9
Forrestal	2385	2385A DELAWARE AVE	30-Mar-05	5.9
Forrestal	2385	2385B DELAWARE AVE	30-Mar-05	7.1
Forrestal	2387	23875B DELAWARE AVE	2001	7.9
Forrestal	2442	2442 NEW YORK AVE	Jan-01	7.5
Forrestal	2461	2461A OHIO AVE	30-Mar-05	4.3
Forrestal	2477	2477B OHIO AVE	31-Mar-05	8.3
Forrestal	2481	2481B OHIO AVE	31-Mar-05	6.4
Forrestal	2644	2644B PENNSYLVANIA AVE	31-Mar-05	6
Forrestal	2677	2677D VIRGINIA AVE	31-Mar-05	4.6
Mainside	C	2731 PERRY ST	28-Mar-05	7.8
Mainside	I	2545 PERRY ST	28-Mar-05	4.6
Nimitz	4023	4023 YEAGER DRIVE	28-Mar-05	5.3
Nimitz	4025	4025 YEAGER DRIVE	28-Mar-05	6.7

Some previous sampling results in 1991 and 1994 showed results above the action level, however, these locations were re-sampled in 1994 and 2001 and found to be below the action level. Appendix J contains tables of radon results reviewed by MACTEC.

8.2 Drinking Water

The subject property is provided with Lake Michigan Water. MACTEC has requested drinking water quality reports (e.g. lead in drinking water testing or similar) and is currently awaiting response. MACTEC has been informed that Consumer Confidence Reports with results of water quality testing have been published annually for the past four to five years; and that results indicate a high quality of drinking water.

8.3 Preliminary Lead-Based Paint and Asbestos Assessments

MACTEC reviewed the nine volume lead-based paint (LBP) risk assessment prepared by GLE Associates, Inc. of Tampa, Florida for NAVSTA Great Lakes. The report is dated March 3, 2005. The assessment of Navy and Marine Corps Family Housing for Lead-Based Paint was initiated by the Department of the Navy. The lead content of paint was regulated in 1977. Therefore, buildings that were constructed prior to 1977 are likely to have remaining LBP. Due to the date of construction of many of the housing units (prior to 1977), it is suspected that LBP is present (EBS, March 2004). A summary of the LBP risk assessment follows:

Forrestal – Wherry 1951: Results indicated one LBP hazard in the kitchen floor dust at 2847D Washington. (Volume 1)

Forrestal – Capehart 1960: Results indicated no lead hazards; and Capehart 1962: results indicated one LBP hazard in the rear exterior handrail paint at 3155A. (Volume 2)

Forrestal – Milcon 1965 and Milcon 1969: Results indicated no lead hazards. (Volume 3)

Forrestal – Turnkey 1976: Results indicated a lead hazard in the dust on the dining room and kitchen floors at 4201C Rhode Island Avenue. (Volume 4)

(Volume 5 contained no LBP results for NAVSTA Great Lakes.)

Halsey – Capehart 1960: Results indicated a lead hazard in the dust on the kitchen floor at 2082D Lexington Avenue (Volume 6)

Halsey – Milcon 1965: Results indicated no lead hazards.

Hospital Cove – Hospitalside Village 1909: Results indicated a lead hazard in eight interior samples and one exterior soil sample collected at 201H, 202H, and 203H 11th Street. Hospitalside Village 1927:

Results indicated a lead hazard from many interior dust and paint samples collected from 204A, 204B, 204C, and 204D 11th Street. Hospitalside Village 1943: Results indicated a lead hazard from many interior dust and paint samples collected from 205A, 205B, 206A, and 206B F Street; and 208A, 208B, and 209A G Street; and 207A 10th Street. (Volume 7)

Mainside – OPQ 1908: Results indicated a lead hazard from interior dust at A, B, C, D Perry Street. OPQ 1911: Results indicated a lead hazard from interior dust at E, F, G, M, I, and J Perry Street and the soil composite from I Perry Street. OPQ 1915: Results indicated no lead hazards. OPQ 1918: Results indicated a lead hazard from the exterior soil composite at 64 Decatur Avenue. OPQ 1942: Results indicated a lead hazard from the entry floor dust at X Downes Drive. (Volume 8)

Nimitz – Milcon 1969: Results indicated a lead hazard from entry floor dust at 4065C Remora Court. Turnkey 1972: Results indicated no lead hazards. (Volume 9)

In addition, elevated levels of lead were identified in soils at Mainside (Brick Row, Buildings 63 and 64, Squirrel Hollow and Hospital Cove).

It should be noted that the lead based paint risk assessment consisted mainly of the collection of lead dust (wipe) and soil samples. Paint samples were collected solely from damaged or deteriorated areas. Therefore, additional areas of lead based paint which may require monitoring and abatement in the future may exist.

MACTEC reviewed past asbestos surveys for NAVSTA Great Lakes performed by Versar, Inc. of Lombard, Illinois. The assessment of Navy and Marine Corps Family Housing for Asbestos was initiated by the Department of the Navy. According to the Asbestos Activity Summary, a total of 169 suspect asbestos homogeneous areas were established and analyzed during the asbestos assessment. Seventy-one of these areas were found to be ACM. A summary of the asbestos results follows:

Mainside – Brick Row: Fourteen of the thirty-four homogeneous areas sampled were determined to be ACM. The ceiling tile in the porch areas was not sampled to preserve the integrity of the components and is assumed to be ACM. ACM reported to be a moderate to high potential hazard to occupants and workers, requiring a short-term action response included pipe insulation in the basement of the units. The remaining ACM was considered to represent a low potential hazard to occupants and workers due to being non-friable, in good condition, with low potential for damage to occur.

Mainside – Squirrel Hollow: Twelve of the eighteen homogeneous areas sampled were determined to be ACM. The thermal system insulation (TSI) located in the crawlspace of each unit was not sampled do to its inaccessibility and is assumed to be ACM. The TSI was reported to represents a moderate potential hazard due to the potential for increasing friability. The remaining ACM (floor tile and mastic) were reported to represent a low potential hazard due to non-friability.

Hospital Cove – Fishbowl: Four of the nine homogeneous areas sampled were determined to be ACM. The ACM (thermal system insulation, floor tile and mastic) represent a low potential hazard.

Forrestal – Capehart: Seven of the seventeen homogeneous areas sampled were determined to be ACM. The ACM floor tile, baseboard and mastic represent low potential hazard. Micon (Cedar Siding): Two of the eleven homogeneous areas sampled were determined to be ACM. The ACM floor products and mastic represent a low potential hazard. Micon (Tri-level): Three of the twelve homogeneous areas sampled were determined to be ACM. Turnkey: Five of the ten homogeneous areas sampled were determined to be ACM. The ACM floor tile, floor sheeting, and mastic represent a low potential hazard. Wherry (Single): One of the seven homogeneous areas sampled were determined to be ACM. The ACM floor tile and mastic represent a low potential hazard. Wherry (14 unit): None of the materials sampled were found to contain asbestos. Wherry (Multiple) Ten of the twelve homogeneous areas sampled were determined to be ACM. Thermal system insulation represents a moderate potential hazard.

Nimitz – Turnkey: One of the five homogeneous areas sampled were determined to be ACM. The ACM represent a low potential hazard. Micon (Tri-Level): Two of the six homogeneous areas sampled were determined to be ACM. The ACM drywall, floor tile and mastic represents a low potential hazard. Micon (Two-Story): Two of the nine homogeneous areas sampled were determined to be ACM.

Halsey – Six of the ten homogeneous areas sampled were determined to be ACM. The ACM drywall, floor products, and mastic represent a low potential hazard. An additional seven of fourteen homogeneous areas in Halsey buildings were sampled and determined to be ACM. This ACM was also considered to represent a low potential hazard.

Review of the Comprehensive Environmental Survey for Remora Court (Buildings 4064, 4065, 4066, 4067, and 4068) at Nimitz Village, prepared by Versar, Inc. and dated September 23, 2004, indicated that floor tile and mastic were determined to be ACM in many of the units. The comprehensive asbestos survey was completed for the buildings on Remora Court in conjunction with future plans to demolish the structures.

In addition, it should be noted that the Environmental Baseline Survey, dated March 2004 (Section 5.5), indicates that as a result of the demolition of housing in Nimitz Village and Halsey Village circa 1943, asbestos can be found in the soil in the area. The area has been covered with fresh topsoil. NAVSTA Great Lakes notifies contractors that asbestos may be encountered in the soil.

MACTEC was also informed that transite sanitary piping may be buried in the residential areas.

8.4 Possible Unexploded Ordinance

MACTEC has requested any existing Unexploded Ordinance (UXO) reports and is currently awaiting response. The Environmental Baseline Survey, dated March 2004, and interviews with Navy personnel indicates that UXO is not expected to be a problem in the residential areas of NAVSTA Great Lakes.

8.5 Pesticide Use

MACTEC has been informed that a pesticide management plan has been in place at NAVSTA Great Lakes for the past seven or eight years. This plan is currently being revised. MACTEC has requested information on pesticide application and is currently awaiting response.

8.6 Wetlands

A wetlands delineation was performed on NAVSTA Great Lakes in September 1999 (U.S. Navy, 1999a). Five wetland areas, containing 13.972 acre, were found within NAVSTA Great Lakes. Of these areas, 2.11-acres of the subject property are reported to be wetlands. Review of the Lake County, Illinois Wetland Inventory indicates that a wetlands area is present along the creek (Skokie Ditch) at the western boundary of Forrestal Village. A small wetlands area (0.27-acres) is present to the east of 202H, 201H, and 203H 11th Street buildings in Hospital Cove and a wetlands area (0.14-acres) is present to the southeast of the baseball diamond and south of 2262 Alabama in Forrestal Village. Refer to Appendix I for a copy of the wetlands information.

8.7 Cultural and Archeological Resources

MACTEC reviewed readily available information pertaining to cultural and archeological resources at the subject site. According to the Environmental Baseline Report by Project Resources, Inc., dated March 2004, the majority of significant cultural resources are represented by the Great Lakes Historic District. The historic district consists of approximately 193 acres located at the east side of the installation and includes housing areas. The original buildings on NAVSTA Great Lakes were constructed between 1906 and 1911, and include representative buildings and structures of the World War I era (NTC Great Lakes, 2001).

An archeological survey conducted during 1999 at NAVSTA Great Lakes resulted in the documentation of seven previously unrecorded archeological sites. The seven archeological sites appear to be located off-site from the subject property.

8.8 Historical Resources

The buildings and structures in the historic district have been designated as contributing properties of major significance, minor significance, and non-contributing properties. The table below lists only the buildings of major significance situated upon or immediately adjacent to the subject site (EA, December 2004).

Building #	Date of Construction	Original Use	Current Use
201H	1909	Officer's Quarters	Officer's Quarters
202H	1909	Officer's Quarters	Officer's Quarters
203H	1909	Officer's Quarters	Officer's Quarters
AA	1911	Commandant's Quarters	Commandant's Quarters
A	1908	Officer's Quarters	Officer's Quarters
B	1908	Officer's Quarters	Officer's Quarters
C	1908	Officer's Quarters	Officer's Quarters
D	1908	Officer's Quarters	Officer's Quarters
E	1911	Officer's Quarters	Officer's Quarters
F	1911	Officer's Quarters	Officer's Quarters
G	1911	Officer's Quarters	Officer's Quarters
I	1911	Officer's Quarters	Officer's Quarters
J	1911	Officer's Quarters	Officer's Quarters
63	1915	Radio Station Building	Officer's Quarters
64	1918	Radio Operator's Quarters	Officer's Quarters
204H	1927	Officer's Apartments	Officer's Apartments
K	1918	Officer's Quarters	Officer's Quarters

These buildings are located in Hospital Cove and Mainside. In 2003, a Programmatic Agreement (PA) was made between the NAVSTA Great Lakes, and the Illinois SHPO concerning the historic district. Pursuant to that agreement, any planned work, including new construction, repairs, modifications, or demolitions of existing facilities within and immediately adjacent to the historic district are subject to review and evaluation by the SHPO. (U.S. Navy, INRMP 2001)

8.9 Threatened and Endangered Species

MACTEC reviewed readily available information pertaining to threatened and endangered species at the subject site. According to the Environmental Baseline Report by Project Resources, Inc., dated March 2004, the Implementation of an Integrated Natural Resources Management Plan at Naval Training Center Great Lakes, dated October 2001, listed species of plants and animals on the State-listed threatened or endangered species list within NAVSTA Great Lakes. The documents reviewed indicate that most of the species identified below have not been found within the subject property. It should be noted that the Environmental Assessment, dated December 2004, states that lack of suitable habitat for most of these species and urbanization surrounding the NAVSTA Great Lakes greatly reduces the possibility of finding any Federal-listed threatened or endangered species on these locations.

Common Name	Scientific Name	Threatened or Endangered
Marram Grass	<i>Ammophila breviligulata</i>	State Endangered
Sea Rocket	<i>Cakile edentula</i>	State Threatened

Common Name	Scientific Name	Threatened or Endangered
Seaside Spurge	<i>Chamaesyce polygonifolia</i>	State Endangered
Forked Aster	<i>Aster furcatus</i>	State Threatened
Green Yellow Sedge	<i>Carex viridula</i>	State Endangered

Common Name	Scientific Name	Status
Blanding's Turtle	<i>Emydoidea blandingii</i>	State Threatened
Massasauga Rattle Snake	<i>Sistrurus catenatus</i>	State Endangered
River Otter	<i>Lontra Canadensis</i>	State Threatened
Karner Blue Butterfly	<i>Lycaeides melissa samulis</i>	State/Federal Endangered
Lake Sturgeon	<i>Acipenser fulvescens</i>	State Endangered
Longnose Sucker	<i>Catostomus catostomus</i>	State Threatened
American Bittern	<i>Botaurus lentiginosus</i>	State Endangered
Bald Eagle	<i>Haliaeetus leucocephalus</i>	State/Federal Threatened
Glack-Crowned Night Heron	<i>Nycticorax nycticorax</i>	State Endangered
Black Tern	<i>Childonias niger</i>	State Endangered
Black and White Warbler	<i>Mniotilta varia</i>	State Watch List
Brown Creeper	<i>Certhia Americana</i>	State Threatened
Cerulean Warbler	<i>Dendriica cerulean</i>	State Watch List
Common Tern	<i>Sterna hirundo</i>	State Endangered
Double-Crested Commorant	<i>Phalacrocorax auritus</i>	State Endangered
Forester's Tern	<i>Sterna forsteri</i>	State Endangered
Great Egret	<i>Casmerodius albus</i>	State Endangered
Least Tern	<i>Sterna antillarum</i>	State/Federal Endangered
Osprey	<i>Pandion haliaetus</i>	State Threatened
Peregrine Falcon	<i>Falco peregrinus</i>	State/Federal Endangered
Pied-Billed Grebe	<i>Podilymbus podiceps</i>	State Threatened
Piping Plover	<i>Charadrius melodus</i>	State/Federal Endangered
Short-Eared Owl	<i>Asio flammeus</i>	State Endangered
Snowy Egret	<i>Egretta thula</i>	State Endangered
Sora	<i>Porzana Carolina</i>	State Watch List
Veery	<i>Catharus fuscescens</i>	State Threatened

MACTEC's review of the information contained in the EBS, dated March 2004, and the EA, dated December 2004, indicates that due to urbanization, it is unlikely that the above-listed threatened and endangered species could occur at the subject site with the exception of the bluff areas. Since no proposed development is scheduled for the bluff areas, impact to threatened and endangered species appears to be minimal.

8.10 Storm Water Management Plans

According to information provided by the NAVFAC MW Environmental Department interview, MACTEC was informed that an IEPA Industrial Discharge Permit exists which covers the landfill areas and the 2710 Navy Exchange. A Storm Water Pollution Prevention Plan has been in place at NAVSTA Great Lakes since the middle 1990's and is currently being rewritten.

8.11 Indoor Air Quality

According to information provided by the NAVFAC MW Environmental Department interview, indoor quality testing is conducted on demand when a complaint is submitted by an individual. According to the Environmental Department personnel, approximately two mold assessments have been requested in the past year.

8.12 Spill Prevention Control and Countermeasure Plans

According to information provided by the NAVFAC MW Environmental Department interview, a Spill Prevention Control and Countermeasure (SPCC) plan has been in existence since the 1980's for NAVSTA Great Lakes. The SPCC addresses oil, lubricants at the Auto Hobby Shop, the gasoline station/Navy Exchange, the Fire Department (past USTs), the Marine Corps Vehicle Maintenance Facility, and the Public Works/Pump Station.

8.13 Environmental Permits

According to information provided by the NAVFAC MW Environmental Department interview, NAVSTA Great Lakes has a Title V Air Permit and the facility has a large quantity RCRA hazardous waste generator number, along with the other environmental permits and plans listed above.

8.14 Coastal Zones

The Coastal Zone Management Program (CZMP) is authorized by the Coastal Zone Management Act of 1972 and administered at the federal level by the Coastal Programs Division (CPD) within the National Oceanic and Atmospheric Administration's Office of Ocean and Coastal Resource Management. The CPD is responsible for advancing national coastal management objectives and maintaining and strengthening state and territorial coastal management capabilities. It supports states through financial assistance, mediation, technical services and information, and participation in priority state, regional, and local forums.

MACTEC reviewed existing information regarding the Coastal Management Program, which is currently being developed by the Illinois Department of Natural Resources (IDNR). As of yet, no coastal zone management program is formally in place for the State of Illinois. Illinois is the last of the 35 eligible coastline states to join the program. (Illinois State Geological Survey Highlights Archive, November 4, 2004). The information reviewed included an April 28, 2005 memorandum from IDNR; general guidelines on Developing a Coastal Management Program (CMP) for Illinois, Developing the Coastal

Management Program Boundary, and a questionnaire developed by IDNR. According to the April 28, 2005 memorandum from Mr. Frank Pisani, P.E., IDNR Office of Water Resources, the IDNR is currently in the process of CMP development and is seeking input on general issues and areas of concern regarding the program. The memorandum further states that IDNR does not believe the CMP will specify or require any special setback provisions or require any modifications to local zoning ordinances or existing requirements. Based on the information provided by IDNR, it does not appear that the CMP will impact Forest City's future development plans.

9.0 FINDINGS

Based on information obtained during this assessment, MACTEC identified the following findings:

- A former monazite sand storage area and an area of radium contaminated soil are present on Supplyside, west of Forrestal Village near Buildings 3214 and 3215. During the 1950's through the 1980's, the Defense Reutilization Material Office maintained a yard for recycled metals. The operation consisted of crushing scrap metal and sending it to a recycler. The recycled metals included radium-containing equipment. Elevated levels of radium in the soil were found to be at 750,000 counts per minute (cpm), while background is 5,000 cpm. The Skokie Ditch divides the area of monazite soil from the Forrestal Village housing (Section 2.5).
- Forrestal Village Landfill is located on the subject property. Degradation materials found at Forrestal Village Landfill are reported to be alcohol and methane. Transite (asbestos-containing material (ACM)) waste has been reported in the topsoil used for the landfill cover at the former landfill location (Sections 2.2 and 2.3).
- Supplyside Landfill is an off-site area located west of Forrestal Village. Transite (ACM) waste has been reported in the topsoil used for the landfill cover at the former landfill location. Supplyside Landfill wastes included cleaners, solvents, oils, rags, and ink. Soil and groundwater are both being monitored in an IEPA approved program (Section 2.5).
- MACTEC was informed of the possible presence of an approximately 500-gallon heating oil underground storage tank (UST) buried in a location to the east of Buildings 3132 and 3136 at Forrestal Village (Section 7.0).
- Based on the age of the buildings in Squirrel Hollow, Brick Row, Buildings 63 and 64, and Hospital Cove, it is possible that mercury switches and PCB-containing light ballasts and/or fluorescent lighting exist at the subject property. Mercury switches have reportedly been discovered and changed out in some of the older buildings at the base (NAVFAC MW Environmental Department interview (Section 6.3).
- NAVSTA Great Lakes was identified on the regulatory database report as a large quantity generator and a small quantity generator of RCRA hazardous waste, a CORRACTS (Corrective Action Site), a registered underground storage tank (UST) facility, and a reported leaking UST facility with multiple LUST incidents listed. Numerous violations are listed for NAVSTA Great Lakes. According to government database information, 11 hazardous waste satellite locations exist on the base. MACTEC was informed that the Installation Restoration sites correlate with the hazardous waste storage areas at the base (Section 3.3.5 and 5.2).
- The US Navy Great Lakes Naval Base, Public Works Center Building, was identified as a CERCLIS site. According to government database information, the facility is not an NPL site; the Discovery Assessment was completed on February 12, 1988; the Preliminary Assessment was completed on March 16, 1988; and a second Preliminary Assessment was completed on October 21, 1993. The CERCLIS site status was listed as high. MACTEC was informed that the CERCLIS status of NAVSTA Great Lakes correlates to the Installation Restoration sites at the base (Section 3.1).

- Multiple Leaking Underground Storage Tank (LUST) incidents are listed at off-site locations at NAVSTA Great Lakes. The LUST incidents listed in Mainside are listed at the environmental department address of 201 Decatur Avenue, Building 1A (multiple listings), 5703 Sheridan Road, Building 11, Navy Training Center, Building 5, Building 13, Building 325, Building 329, Building 324, Building 239, and 2703 Sheridan Road. (Section 3.1).
- Forrestal Village Buildings 3216B, 3511, 2912, 3114A, 3400 were identified as LUST sites. Due to the proximity of the site to the subject property, the following LUST site, 3511, may have the potential to environmentally impact the subject property. Based on government database information, the LUST incidents at Buildings 3114A and 2912 are not likely to impact the property (Section 2.5). The LUST incidents at 3216B and 3400 had no remaining impacted soil, and low groundwater contamination and are considered to be too far from the property to impact the property.
- MACTEC reviewed radon results for Mainside, Halsey Village, Nimitz Village, and Forrestal Village dating back to 1991. Results indicated buildings in each of these areas had radon levels which exceeded the US Environmental Protection Agency action level of 4 pCi (picoCuries). Some of the buildings were re-sampled, with the subsequent sampling results below the action level. To date, no remedial action has been conducted in these buildings (Section 8.1).
- As a result of the demolition of housing in Nimitz Village and Halsey Village circa 1943, asbestos can be found in the area. The area has been covered with fresh topsoil. NAVSTA Great Lakes notifies contractors that asbestos may be encountered in the soil. MACTEC was also informed that transite piping may be buried in the housing areas (Section 8.3).
- Based on past asbestos surveys and the date of construction of the housing, it is likely that asbestos-containing materials are present at the subject property. MACTEC is currently completing a comprehensive asbestos survey. Results to-date indicates that asbestos-containing materials consisting mainly of floor tile and mastic are present in the housing (Section 8.3).
- Lead-based paint was identified in interior dust and paint samples in some of the housing at the subject property (Forrestal Village, Halsey Village, Hospital Cove, and Mainside). Elevated levels of lead were found in the soils at Mainside (Brick Row, Buildings 63 and 64, Squirrel Hollow and Hospital Cove) (Section 8.3).
- Based on the presence of historic properties (buildings 201H, 202H, 203H, 204H, AA, A,B, C, D, E, F, G, I, J, K, 63, and 64) in Mainside and Hospital Cove at the subject site, coordination and consultation with the State Historic Preservation Office would be necessary prior to undertaking new construction, repairs, modifications, or demolition of existing buildings within the historic district (Section 8.8).

10.0 OPINIONS

Based on the findings of our assessment, MACTEC provides the following opinions on the observed conditions.

- Although the former monazite sand storage area and radium contaminated soil are situated off-site, west (Supplieside) of Forrestal Village, the monazite sand storage area and radium contaminated soil is divided from the Forrestal Village housing by Skokie Ditch. The potential exists for contamination from the monazite sand to environmentally impact the creek and residential area. MACTEC recommends further investigation of the monazite sand area to determine whether or not the subject site has been deleteriously impacted (Section 2.5).
- Based on the proximity of Forrestal Village Landfill (subject property) to the residential development, it is MACTEC's opinion that continued monitoring is required to ensure the landfill area has not environmentally impacted the surrounding area (Sections 2.2 and 2.3).
- Based on the near proximity of the off-site Supplieside Landfill (former landfill area) to the Forrestal Village housing, it is MACTEC's opinion that continued monitoring is required to ensure the landfill area has not environmentally impacted the subject site. (Section 2.5).
- Based on the possible presence of an approximately 500-gallon heating oil UST buried in a location to the east of Buildings 3132 and 3136 at Forrestal Village, it is MACTEC's opinion that the tank should be removed, properly disposed and further investigation should be performed to determine whether or not the content of the UST has contaminated surrounding soils (Section 7.0).
- The multiple violations listed in CORRACTS should not indicate an environmental concern to the subject property based on the nature of the violations. It is MACTEC's opinion that the existing hazardous waste storage areas are not likely to pose an environmental risk to the subject property based on their proximity to the subject property. (Sections 3.1 and 5.2).
- Based on the high CERCLIS site status of NAVSTA Great Lakes, MACTEC conducted further investigation in order to ascertain the potential environmental risk to the subject risk to the subject property. It is MACTEC's opinion the Installation Restoration sites at Mainside are not expected to pose an environmental risk to the subject property. (It should be noted that two IR sites are located on the subject property, the Forrestal Village Landfill and IR site #13G demolition debris at the southwestern corner. It is MACTEC's opinion that IR site #13G contains construction debris from the housing and is not considered a recognized environmental condition to the subject property. The following IR sites are off-site in the near vicinity of the subject property: IR site #3 Supplieside Landfill, IR site 18 Monazite Sand Storage, IR site #14G Coal Storage Areas, and IR site #20 Radium Contaminated Soil) (Sections 3.1 and 5.2).
- Based on the hydraulic gradient and distance of the LUST sites at Mainside in relation to the subject property, the reported LUST sites are not expected to environmentally impact the subject property (Section 3.1).
- Forrestal Village Buildings 3216B, 3511, 2912, 3114A, 3400 were identified as LUST sites. Due to the proximity of the site to the subject property, the following LUST site, 3511, may have the

potential to environmentally impact the subject property. Based on government database information, the LUST incidents at Buildings 3114A and 2912 are not likely to impact the property (Section 2.5). The LUST incidents at 3216B and 3400 had no remaining impacted soil, and low groundwater contamination and are considered to be too far from the property to impact the property.

- Radon results indicate buildings in each of these areas had radon levels which exceeded the US Environmental Protection Agency action level of 4 pCi (picoCuries). According to the reports reviewed, no further action has been taken at these buildings. It is MACTEC's opinion that the radon issues should be addressed in the proposed development of the areas where exceedances occurred (Section 8.1).
- Asbestos is reportedly present in soil in Nimitz Village and Halsey Village. The asbestos-containing soil has been covered with topsoil. In addition, buried transite piping may be encountered in the housing areas. It is MACTEC's opinion that additional clean fill should be used to adequately cover the existing topsoil in the Nimitz Village and Halsey Village areas. Should transite piping be encountered during excavation, MACTEC recommends removal and proper disposal (Section 8.3).
- Based on past asbestos surveys and the date of construction of the housing, it is likely that asbestos-containing materials are present at the subject property. MACTEC is currently completing a comprehensive asbestos survey. Results to-date indicates that asbestos-containing materials consisting mainly of floor tile and mastic are present in the housing (Section 8.3).
- Lead-based paint was identified in interior dust and paint samples in some of the housing at the subject property (Forrestal Village, Halsey Village, Hospital Cove, and Mainside). Elevated levels of lead were found in the soils at Mainside (Brick Row, Buildings 63 and 64, Squirrel Hollow and Hospital Cove). It is MACTEC's opinion that health and safety precautions may be required to protect workers during abatement and or renovation of these properties (Section 8.3).
- Based on the presence of historic properties (buildings 201H, 202H, 203H, 204H, AA, A,B, C, D, E, F, G, I, J, K, 63, and 64) in Mainside and Hospital Cove at the subject site, coordination and consultation with the State Historic Preservation Office would be necessary prior to undertaking new construction, repairs, modifications, or demolition of existing buildings within the historic district (Section 8.8).

11.0 CONCLUSIONS

MACTEC has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-00 of the Forest City Washington facility located in Great Lakes, Lake County, Illinois. Any exceptions to or deletions from this practice are described in Section 10 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property except for the following:

- Radium contaminated soil is present on Supplside, west of Forrestal Village near Building 3214 and 3215. During the 1950's through the 1980's, the Defense Reutilization Material Office maintained a yard for recycled metals. The operation consisted of crushing scrap metal and sending it to a recycler. The recycled metals included radium-containing equipment. Elevated levels of radium in the soil were found to be at 750,000 counts per minute (cpm), while background is 5,000 cpm. The Skokie Ditch divides the area of monazite soil from the Forrestal Village housing (Section 2.5).
- Forrestal Village Landfill is located on the subject property. Degradation materials found at Forrestal Village Landfill are reported to be alcohol and methane. Transite (asbestos-containing material (ACM)) waste has been reported in the topsoil used for the landfill cover at the former landfill location (Sections 2.2 and 2.3).
- Supplside Landfill is an off-site area located west of Forrestal Village. Transite (ACM) waste has been reported in the topsoil used for the landfill cover at the former landfill location. Supplside Landfill wastes included cleaners, solvents, oils, rags, and ink. Soil and groundwater are both being monitored in an IEPA approved program (Section 2.5).
- MACTEC was informed of the possible presence of an approximately 500-gallon heating oil underground storage tank (UST) buried in a location to the east of Buildings 3132 and 3136 at Forrestal Village (Section 7.0).
- NAVSTA Great Lakes was identified on the regulatory database report as a large quantity generator and a small quantity generator of RCRA hazardous waste, a CORRACTS (Corrective Action Site), a registered underground storage tank (UST) facility, and a reported leaking UST facility with multiple LUST incidents listed. Numerous violations are listed for NAVSTA Great Lakes. According to government database information, 11 hazardous waste satellite locations exist on the base. MACTEC was informed that the Installation Restoration sites correlate with the hazardous waste storage areas at the base (Section 3.3.5 and 5.2).
- The US Navy Great Lakes Naval Base, Public Works Center Building, was identified as a CERCLIS site. According to government database information, the facility is not an NPL site; the Discovery Assessment was completed on February 12, 1988; the Preliminary Assessment was completed on March 16, 1988; and a second Preliminary Assessment was completed on October 21, 1993. The CERCLIS site status was listed as high. MACTEC was informed that the CERCLIS status of NAVSTA Great Lakes is based on the CORRACTS issued described in the paragraph above (Section 3.1).

- Multiple Leaking Underground Storage Tank (LUST) incidents are listed at off-site locations at NAVSTA Great Lakes. The LUST incidents listed in Mainside are listed at the environmental department address of 201 Decatur Avenue, Building 1A (multiple listings), 5703 Sheridan Road, Building 11, Navy Training Center, Building 5, Building 13, Building 325, Building 329, Building 324, Building 239, and 2703 Sheridan Road. Based on the hydraulic gradient and distance of these LUST sites to the subject property, the reported LUST sites at Mainside are not expected to environmentally impact the subject property (Section 3.1).
- Forrestal Village Buildings 3216B, 3511, 2912, 3114A, 3400 were identified as LUST sites. Due to the proximity of the site to the subject property, the following LUST site, 3511, may have the potential to environmentally impact the subject property. Based on government database information, the LUST incidents at Buildings 3114A and 2912 are not likely to impact the property (Section 2.5). The LUST incidents at 3216B and 3400 had no remaining impacted soil, and low groundwater contamination and are considered to be too far from the property to impact the property.
- MACTEC reviewed radon results for Mainside, Halsey Village, Nimitz Village, and Forrestal Village dating back to 1991. Results indicated buildings in each of these areas had radon levels which exceeded the US Environmental Protection Agency action level of 4 pCi (picoCuries). Some of the buildings were re-sampled, with the subsequent sampling results below the action level. To date, no remedial action has been conducted in these buildings (Section 8.1).
- As a result of the demolition of housing in Nimitz Village and Halsey Village circa 1943, asbestos can be found in the area. The area has been covered with fresh topsoil. NAVSTA Great Lakes notifies contractors that asbestos may be encountered in the soil. MACTEC was also informed that transite piping may be buried in the housing areas (Section 8.3).
- Based on past asbestos surveys and the date of construction of the housing, it is likely that asbestos-containing materials are present at the subject property. MACTEC is currently completing a comprehensive asbestos survey. Results to-date indicates that asbestos-containing materials consisting mainly of floor tile and mastic are present in the housing (Section 8.3).
- Lead-based paint was identified in interior dust and paint samples in some of the housing at the subject property (Forrestal Village, Halsey Village, Hospital Cove, and Mainside). Elevated levels of lead were found in the soils at Mainside (Brick Row, Buildings 63 and 64, Squirrel Hollow and Hospital Cove) (Section 8.3).
- Based on the presence of historic properties (buildings 201H, 202H, 203H, 204H, AA, A,B, C, D, E, F, G, I, J, K, 63, and 64) in Mainside and Hospital Cove at the subject site, coordination and consultation with the State Historic Preservation Office would be necessary prior to undertaking new construction, repairs, modifications, or demolition of existing buildings within the historic district (Section 8.8).

12.0 DEVIATIONS

Since the use of the subject property had not changed over long periods of time, research of the history during those periods was conducted by reviewing materials available at greater than the ASTM specified five year intervals.

13.0 REFERENCES

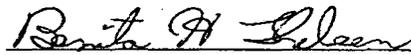
- Aerial photographs dated 1939, 1947, 1954, 1961, 1967, 1974, 1980, 1985, 1993, 2000, and 2004 obtained from the Soil and Water Conservation District of Lake County, Grayslake, Illinois.
- ASTM International's Standard Practice E 1527-00, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.
- United States Geological Survey (USGS), Waukegan, Illinois Quadrangle Map, 7.5-Minute Topographic Series, dated 1960 and photo revised in 1972 and 1980.
- *Environmental Baseline Survey, Public / Private Venture Housing Privatization, Naval Station Great Lakes, Great Lakes, Illinois* prepared for NAVAL Facilities Engineering Command, Southern Division, North Charleston, South Carolina, dated March 2004.
- *Environmental Assessment*, prepared for Department of the Navy, Naval Facilities, Engineering Field Division South, 2155 Eagle Drive, North Charleston, South Carolina 29406, dated December 2004.
- *Environmental Data Resources (EDR) Radius Map with GeoCheck*, Inquiry Number 01426898.1R, dated May 23, 2005.
- EDR Radius Map with GeoCheck, Inquiry Number 1426914.2S, dated May 23, 2005.
- Telephone interview with Jan Ogden, FOIA Coordinating, Illinois Environmental Protection Agency (IEPA), July 29, 2005.
- Telephone interview with Kathy Pollack of US Department of the Interior, Fish and Wildlife, July 26, 2005.
- On-site interview with Gary McDermott, , Housing Manager, Facilities Management Division, NAVSTA Great Lakes, Lake County, Illinois, July 15, 2005.
- Telephone interview with Blayne Kirsch, NAVFAC Midwest Environmental Director, August 9, 2005.
- Telephone interview with Mark Schultz, Environmental Officer, Navy Public Works Center, NAVFAC MW Environmental Department, Great Lakes, Illinois, August 9, 2005.
- On-site interview with Carlo L. Luciano, P.E. Environmental Engineer, NAVFAC MW Environmental Department, Great Lakes, Illinois, July 2005.
- *Project Plans and Report, Final Cover Study, Forrestal Landfill, Great Lakes, Illinois*, prepared for Department of the Navy, Engineering Field Activity, Midwest Environmental Department, prepared by Clayton Group Services, Inc., 3140 Finley Road, Downers Grove, Illinois 60515, dated May 5, 2004.
- *Final Delivery Order Closure Report, Leaking Underground Storage Tank Relative Risk Ranking Sampling, 18 Sites, Great Lakes Naval Training Center, Great Lakes, Illinois*, prepared for Department of the Navy, Naval Training Center, Environmental Department Building 1A, 201 Decatur Avenue, Great Lakes, Illinois, prepared by TolTest, Inc. of Waukegan, Illinois, April 2003.
- Refer to *Section 5.5 Environmental Document Review* for additional environmental documents provided by NAVSTA Great Lakes and reviewed by MACTEC.

14.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

This report pertains to the subject property located in Great Lakes, Lake County, Illinois. Our professional services have been performed using the degree of care and skill ordinarily exercised under similar circumstances by other environmental professionals practicing in this field.

The representations made in this report are accurate and true to the best knowledge of the undersigned.

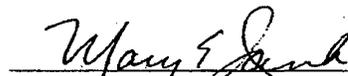
REPORT PREPARED BY:



Benita H. Theleen
Senior Project Scientist
773-693-6030

10-31-05
Date

UNDER REVIEW BY:



Mary E. Jank, P.G.
Principal Geologist
773-693-6030

10-31-05
Date

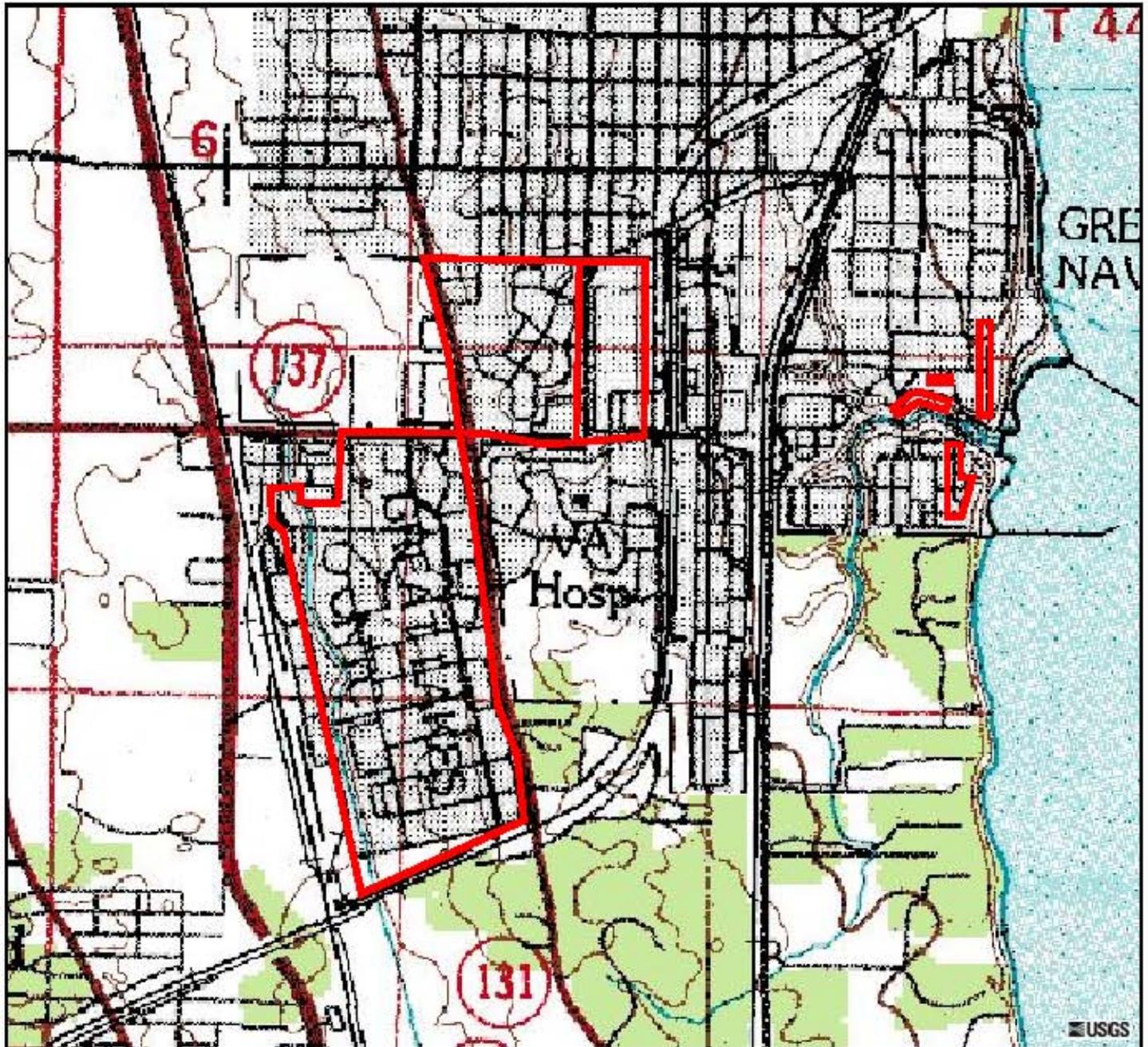
15.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

MACTEC is a multidisciplinary environmental consulting firm that has provided comprehensive environmental consulting services to industry since 1965. MACTEC offers the full range of technical disciplines to address environmental issues arising in air, soil, surface water, groundwater, or biota.

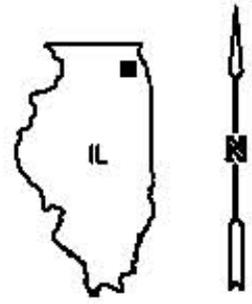
MACTEC is a major environmental subsidiary of MACTEC, Inc., a full service environmental management company ranked #8 in Engineering News Record annual 'Top 20 All Environmental Firms' listing, based in Golden, Colorado. MACTEC employs more than 1,000 professionals working out of a nationwide network of offices.

APPENDIX A

Figures



KEY
 ————
 ———— = APPROXIMATE SITE BOUNDARIES





US

KEY

— APPROXIMATE SITE BOUNDARIES

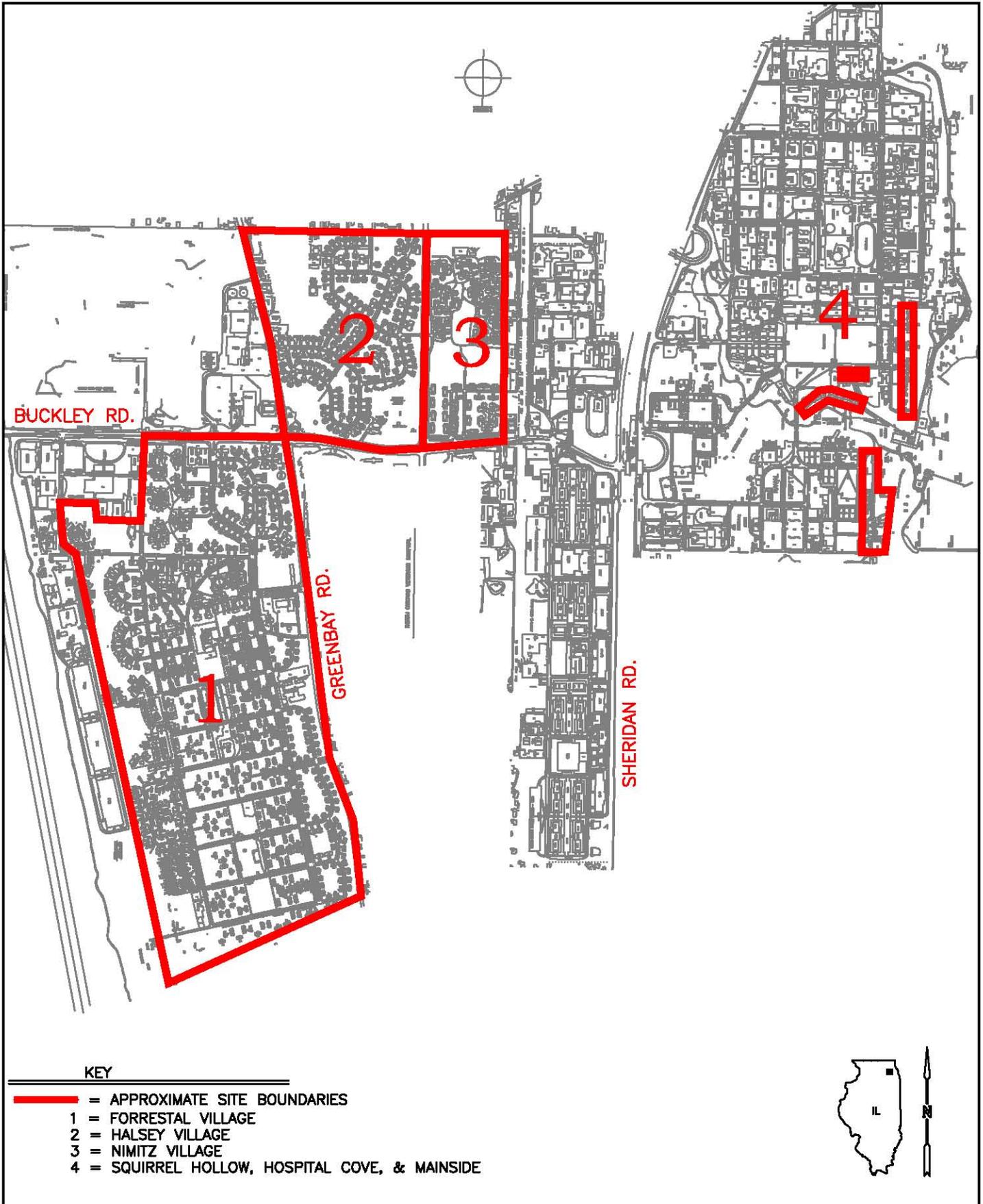


MACTEC
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Site Location & Aerial Photograph
NAVSTA Great Lakes
Lake County, IL

FIGURE
2

DESIGN GAP	PROJECT NUMBER 3205050472.02	APPROVED	DATE 06/09/05	ISSUED DATE
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MACTEC
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Site Location & Vicinity Map
NAVSTA Great Lakes
Lake County, IL

FIGURE

3

DRAWN
GAP

PROJECT NUMBER
3205050472.02

APPROVED

DATE
08/09/05

REVISED DATE

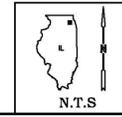
CLOSED SANITARY
LANDFILL AREA

GREENBAY RD.



AREA 1

- KEY
- 1 - APPROXIMATE SITE BOUNDARIES
 - 2 - FORRESTAL VILLAGE
 - 3 - HALSEY VILLAGE
 - 4 - NIMITZ VILLAGE
 - 5 - SQUIRREL HOLLOW, HOSPITAL COVE, & MAINSIDE

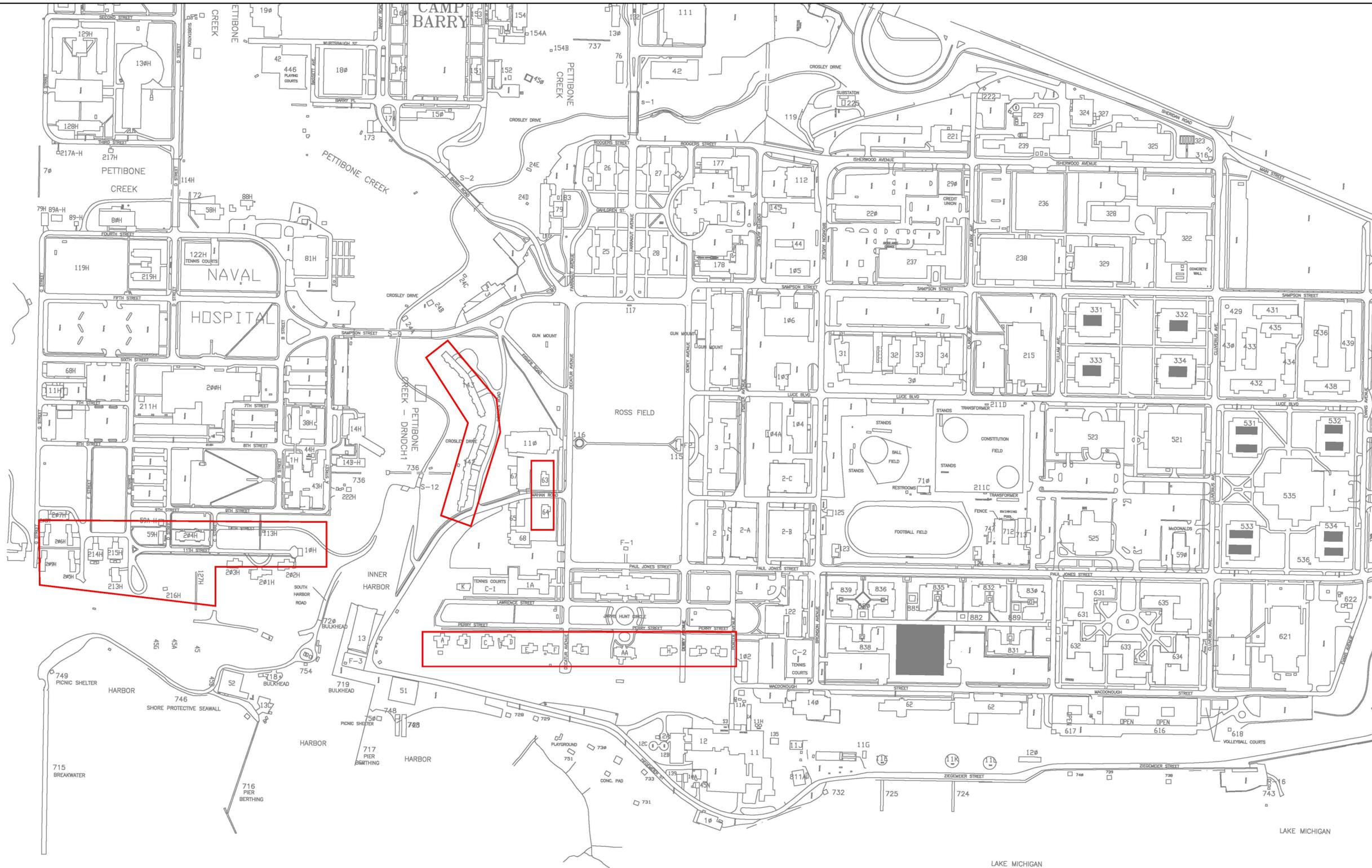


MACTEC
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Site Location & Vicinity Map
NAVSTA Great Lakes
Lake County, IL

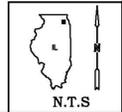
FIGURE
4

DRAWN GAF	PROJECT NUMBER 3205050472.02	APPROVED	DATE 08/24/05	REVISED DATE	REVISION NUMBER 0
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AREA 4

- KEY**
- = APPROXIMATE SITE BOUNDARIES
 - 1 = FORRESTAL VILLAGE
 - 2 = HALSLEY VILLAGE
 - 3 = NIMITZ VILLAGE
 - 4 = SQUIRREL HOLLOW, HOSPITAL COVE, & MAINSIDE



MACTEC
Engineering and Consulting, Inc.

DRAWN: GAP PROJECT NUMBER: 3205050472.02

Site Location & Vicinity Map
NAVSTA Great Lakes
Lake County, IL

APPROVED	DATE	REVISED DATE	REVISION NUMBER
	08/24/05		0

APPENDIX B

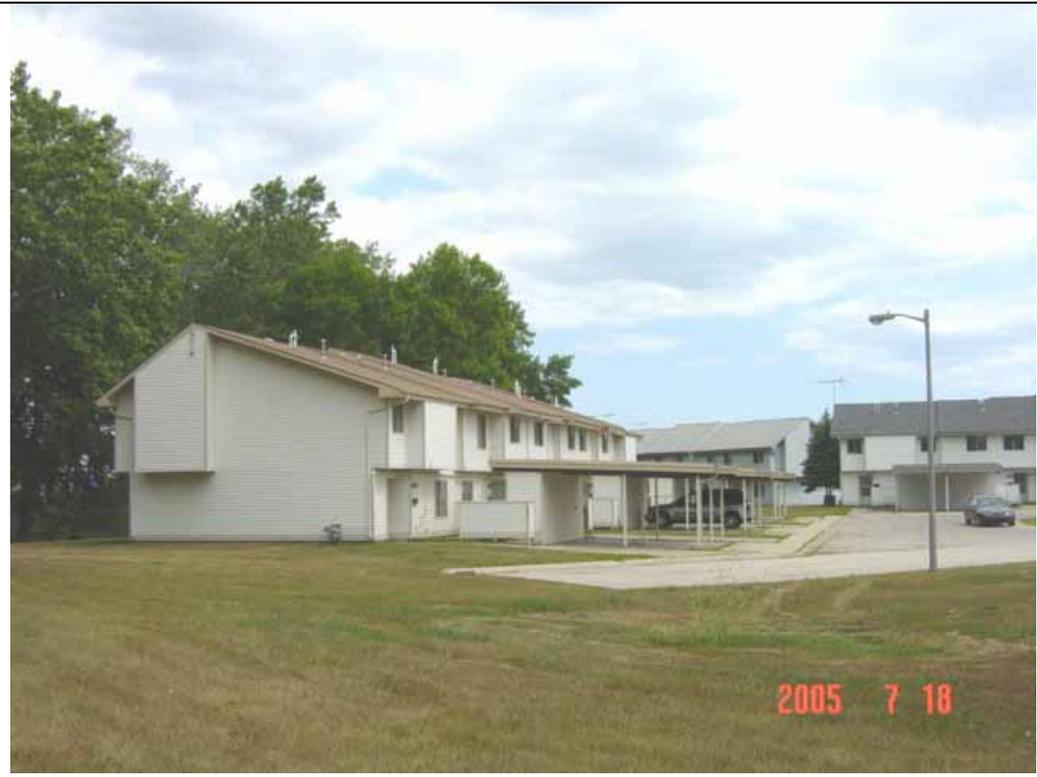
Photographic Documentation

Photograph #1	Remarks
 A photograph showing the front view of a single-story house with a brown roof and a covered front porch supported by white columns. The house has light blue siding and brick accents. A large tree is on the right side of the house. A red date stamp '2005 7 18' is visible in the bottom right corner of the photo.	<p>Front view of 3159A/B Texas Court (subject property).</p>

Photograph #2	Remarks
 A photograph showing the backyard of the property. On the left is the side of the house with light blue siding and a brick foundation. In the center is a small, weathered metal shed. The yard is grassy with several trees and a utility pole in the background. A red date stamp '2005 7 18' is visible in the bottom right corner of the photo.	<p>View of the backyard at 3159A/B Texas Court in Forrestal Village (subject property).</p>

Photograph #3	Remarks
	<p>View of the 3175 A/B/C/D Arizona Avenue in Forrestal Village.</p>

Photograph #4	Remarks
	<p>View of the former trailer park in Forrestal Village.</p>

Photograph #5	Remarks
	<p>View of 4202 Rhode Island Avenue in Forrestal Village.</p>

Photograph #6	Remarks
	<p>Looking south at Skokie Ditch. The photo is taken from the Virginia Avenue bridge.</p>

Photograph #7	Remarks
	<p>View of the Forrestal Village Landfill. The photograph is taken from Virginia Avenue, the north boundary of the landfill.</p>

Photograph #8	Remarks
	<p>Looking south at the Forrestal Village Landfill (also known as the Playground Landfill). The photograph is taken from Virginia Court.</p>

Photograph #9	Remarks
	<p>View of 2259 Alabama Street (subject property).</p>

Photograph #10	Remarks
	<p>Rear view of the 2259 Alabama Street building. Pad-mounted air conditioning units are visible at the rear of the units (subject property).</p>

Photograph #11	Remarks
	<p>Interior view of the main floor kitchen area at one of the units in the 2259 Alabama building (subject property).</p>

Photograph #12	Remarks
	<p>Interior view of the living room area at one of the 2259 Alabama Street units (subject property).</p>

Photograph #13	Remarks
 <p>A photograph showing the front view of a two-story brick house. The house has a white garage on the left side and a brick main body. There are several windows, including a large one on the second floor. The house is surrounded by a lawn and trees. A red timestamp '2005 7 20' is visible in the bottom right corner of the photo.</p>	<p>Front view of 2157 Hawaii Street in Forrestal Village, a single family residence (subject property).</p>

Photograph #14	Remarks
 <p>A photograph showing the rear view of a brick building. On the left, there is an air conditioning unit. In the center, there is a window with white shutters. On the right, there is a door with a white metal railing in front of it. A red timestamp '2005 7 20' is visible in the bottom right corner of the photo.</p>	<p>Rear view of the 2157 Hawaii Street building in Forrestal Village (subject property).</p>

Photograph #15	Remarks
	<p>View of building units typical of Utah Court, Tennessee Court, and Nevada Court, and Minnesota Court at the northwestern portion of Forrestal Village (subject property).</p>

Photograph #16	Remarks
	<p>View of 2358 Delaware in Forrestal Village (subject property). This unit is a single family residence.</p>

Photograph #17	Remarks
	<p>2834 Washington building in Forrestal Village (subject property).</p>

Photograph #18	Remarks
	<p>View of the 4200 Rhode Island Court building in Forrestal Village (subject property).</p>

Photograph #19	Remarks
	<p>View of the transformer substation located north of Wyoming and east of the Vermont Court playing field in Forrestal Village.</p>

Photograph #20	Remarks
	<p>View of 2463 Ohio building in Forrestal Village (subject property).</p>

Photograph #23	Remarks
	View of Quarters 71 in Forrestal Village (subject property).

Photograph #24	Remarks
	View of Quarters 71 in Forrestal Village (subject property).

Photograph #25	Remarks
	<p>View of 4136 Seadragon in Nimitz Village (subject property).</p>

Photograph #26	Remarks
	<p>View of 4065 Remora Court (typical Remora Court building) in Nimitz Village (subject property).</p>

Photograph #27	Remarks
	<p>Rear view of typical Lexington Drive single family home in Halsey Village (subject property).</p>

Photograph #28	Remarks
	<p>View of a typical housing unit on Intrepid Street in Halsey Village (subject property).</p>

Photograph #29	Remarks
	<p>View of the Hospital Cove Buildings 205H, 206H, 207H, 208H, and 209H (subject property).</p>

Photograph #30	Remarks
	<p>View of 202H in Hospital Cove, a single family unit (subject property).</p>

Photograph #31	Remarks
	<p>Quarters K in Brick Row, Mainside (subject property).</p>

Photograph #32	Remarks
	<p>Steam heating system typical for the Brick Row houses (Quarters C) in Mainside (subject property).</p>

APPENDIX C
Regulatory Information



EDR™ Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Forestal, Halsey, Nimitz
Green Bay Road / Buckley Road
Great Lakes, IL 60088**

Inquiry Number: 01426898.1r

May 23, 2005

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

GREEN BAY ROAD / BUCKLEY ROAD
GREAT LAKES, IL 60088

COORDINATES

Latitude (North): 42.308500 - 42° 18' 30.6"
Longitude (West): 87.862500 - 87° 51' 45.0"
Universal Transverse Mercator: Zone 16
UTM X (Meters): 428913.6
UTM Y (Meters): 4684175.5
Elevation: 718 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: 42087-C7 WAUKEGAN, IL
Source: USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

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

FEDERAL ASTM STANDARD

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites

STATE ASTM STANDARD

SRP..... Site Remediation Program Database
CAT..... Category List

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... Superfund (CERCLA) Consent Decrees

EXECUTIVE SUMMARY

ROD	Records Of Decision
Delisted NPL	National Priority List Deletions
MINES	Mines Master Index File
NPL Liens	Federal Superfund Liens
PADS	PCB Activity Database System
INDIAN RESERV	Indian Reservations
UMTRA	Uranium Mill Tailings Sites
US ENG CONTROLS	Engineering Controls Sites List
ODI	Open Dump Inventory
FUDS	Formerly Used Defense Sites
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
SSTS	Section 7 Tracking Systems
FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

IL NIPC	Solid Waste Landfill Inventory
ENG CONTROLS	Sites with Engineering Controls

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas	Former Manufactured Gas (Coal Gas) Sites
-----------------------	--

BROWNFIELDS DATABASES

US BROWNFIELDS	A Listing of Brownfields Sites
US INST CONTROL	Sites with Institutional Controls
Inst Control	Institutional Controls
BROWNFIELDS	Redevelopment Assessment Database
SRP	Site Remediation Program Database

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

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

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

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

FEDERAL ASTM STANDARD

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System

EXECUTIVE SUMMARY

contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 02/15/2005 has revealed that there are 3 CERCLIS sites within approximately 1.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
US NAVY GREAT LAKES NAVAL BASE	PUBLIC WORKS CENTER BLD	1/4 - 1/2 SW	C14	18
R. LAVIN & SONS, INC.	2028 SHERIDAN RD.	1 - 2 NE	AE152	127
R LAVIN AND SONS INCORPORATED	2028 SHERIDAN ROAD	1 - 2 NE	AE153	127

CERCLIS-NFRAP: As of February 1995. CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund Action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

A review of the CERC-NFRAP list, as provided by EDR, and dated 03/22/2005 has revealed that there is 1 CERC-NFRAP site within approximately 1.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
COLEMAN CABLE SYSTEMS	2500 COMMONWEALTH AVE	1/2 - 1 ENE	U90	86

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

A review of the CORRACTS list, as provided by EDR, and dated 03/29/2005 has revealed that there are 5 CORRACTS sites within approximately 2 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
US NAVY GREAT LAKES NAVAL BASE	PUBLIC WORKS CENTER BLD	1/4 - 1/2 SW	C14	18
ABBOTT LABORATORIES	3601 NORTH SKOKIE HIGHW	1/2 - 1 WSW	G35	36
FANSTEEL INC	ONE TANTALUM PL	1 - 2 NE	130	112
R LAVIN AND SONS INCORPORATED	2028 SHERIDAN ROAD	1 - 2 NE	AE153	127
THE GILLETTE CO NORTH CHICAGO	3500 WEST 16TH STREET	1 - 2 NNW	161	145

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators

EXECUTIVE SUMMARY

(CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/13/2005 has revealed that there are 2 RCRA-TSDF sites within approximately 1.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
FANSTEEL INC	ONE TANTALUM PL	1 - 2 NE	130	112
R LAVIN AND SONS INCORPORATED	2028 SHERIDAN ROAD	1 - 2 NE	AE153	127

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/13/2005 has revealed that there are 11 RCRA-LQG sites within approximately 1.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
US NAVY GREAT LAKES NAVAL BASE	PUBLIC WORKS CENTER BLD	1/4 - 1/2 SW	C14	18
US NAVY NAVY EXCHANGE	2601 A PAUL JONES STREE	1/4 - 1/2 SW	C16	24
OHMAN DESCALING SERVICES INC	2929 23RD PL	1/2 - 1 NNW	27	30
ABBOTT LABORATORIES	3601 NORTH SKOKIE HIGHW	1/2 - 1 WSW	G35	36
QUIK STOP	3300 SKOKIE HWY	1/2 - 1 SW	O67	71
ABBOTT LABORATORIES	22ND ST AND RTE 41	1/2 - 1 NW	80	79
GOELITZ CONFECTIONERY COMPANY	1501 MORROW AVENUE	1/2 - 1 NE	S82	80
EMCO CHEMICAL DISTRIBUTORS	2740 CABLE PLACE	1 - 2 NE	Y117	103
VACANT LOT SITE	1120 MARTIN LUTHER KING	1 - 2 NE	Y122	106
FEDERAL CHICAGO CORPORATION	925 E. M.L.KING DRIVE	1 - 2 NE	135	115
EMCO CHEMICAL DISTRIBUTORS INC	2100 COMMONWEALTH AVENU	1 - 2 NE	AD139	118

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store , treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste,

EXECUTIVE SUMMARY

or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/13/2005 has revealed that there are 33 RCRA-SQG sites within approximately 1.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
US VA MEDICAL CENTER NORTH CHI	IL RTE 137	0 - 1/8 N	A3	7
ROSALIND FRANKLIN UNIV OF MEDI	3333 GREEN BAY RD	1/4 - 1/2 S	B12	16
GFI PRESS DBA VOGUE PRINTERS	2421 GREENBAY RD	1/4 - 1/2 NNW	17	25
ABBOTT LABORATORIES	2323 GREEN BAY RD	1/2 - 1 NNW	E21	27
NORTH CHICAGO SHELL	2210 S GREENBAY RD	1/2 - 1 NNW	E26	30
HIGHLAND CLEANERS	2710 22ND ST	1/2 - 1 N	J44	52
AMOCO 18641	2131 GREENBAY AND 22ND	1/2 - 1 NNW	Q72	72

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
BATH IRON WORKS CORP	GREAT LAKES TNG CTR BLD	1/4 - 1/2 SW	C15	23
UNIVERSITY OF HEALTH SCIENCES	3471 GREEN BAY RD	1/2 - 1 S	D20	26
SANTEK CHEMICALS	3150 SKOKIE HWY	1/2 - 1 WSW	31	32
CERTIFIED AUTO BODY AND SALES	29770 N HWY 41	1/2 - 1 W	33	35
PRECISION FRAME AND ALIGNMENT	2868 SKOKIE HWY	1/2 - 1 W	H46	53
EMRO MARKETING NO 7459	SKOKIE BLVD AND BUCKLEY	1/2 - 1 W	K50	57
LAST DETAIL INC THE	2900 US RTE 41	1/2 - 1 W	K52	58
HANKS CLEANERS II	2219 22ND ST	1/2 - 1 NNE	L53	58
LARSON RONALD EXCNG AND TRKNG	2201 22ND	1/2 - 1 NNE	L57	60
KETONE AUTOMOTIVE INC	3115 BEACON	1/2 - 1 W	71	72
DEPARTMENT OF THE NAVY	2701 SHERIDAN RD	1/2 - 1 ENE	R79	78
SBC AMERITECH	2205 HERVEY	1/2 - 1 NE	T86	82
COLEMAN CABLE SYSTEMS	2500 COMMONWEALTH AVE	1/2 - 1 ENE	U90	86
PHOTO PREPCO	2325 DAVIS ST	1/2 - 1 NE	V91	86
COLEMAN CABLE	2323 DAVIS RD	1/2 - 1 NE	V92	87
LIBERTY COACH INC	1400 MORROW AVE	1/2 - 1 NE	V93	87
COLEMAN CABLE SYSTEMS INCORPOR	2305 DAVIS STREET	1/2 - 1 NE	V94	87
CPI PLASTICS GROUP INC	2332 COMMONWEALTH	1 - 2 NE	W99	90
ADLER NORCO	2222 COMMONWEALTH	1 - 2 NE	Y119	104
NOSCO INC	1450 N SHERIDAN RD	1 - 2 ENE	121	105
MARYS NAVAL CLEANERS	2128 N SHERIDAN RD	1 - 2 ENE	125	108
ABBOTT LABORATORIES	22ND ST AND RT 41	1 - 2 NW	129	111
FANSTEEL INC	ONE TANTALUM PL	1 - 2 NE	130	112
CERAMCO INC	2700 GREENFIELD AVE	1 - 2 NE	AC133	114
CARLIN CORP	2650 GREENFIELD	1 - 2 NE	AC134	115
SCOTT BYRON & CO INC	30088 N SKOKIE HWY	1 - 2 SSW	AB138	117

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2004 has revealed that there are 5 ERNS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
3001 GREEN BAY ROAD	3001 GREEN BAY ROAD	0 - 1/8 N	A2	7
3001 GREENBAY RD	3001 GREENBAY RD	0 - 1/8 N	A5	14
3001 GREENBAY RD	3001 GREENBAY RD	0 - 1/8 N	A6	14
3001 GREENBAY RD	3001 GREENBAY RD	0 - 1/8 N	A7	14

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
COLEMAN CABLE SYS INC	COLEMAN CABLE SYS INC	1/2 - 1 NE	W97	88

STATE ASTM STANDARD

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Illinois Environmental Protection Agency's Category List.

A review of the SHWS list, as provided by EDR, has revealed that there is 1 SHWS site within approximately 2 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
R LAVIN AND SONS INC	2028 SHERIDAN ROAD	1 - 2 NE	AE151	126

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Illinois Environmental Protection Agency's Available Disposal for Solid Waste in Illinois--Solid Waste Landfills Subject to State Surcharge list.

A review of the SWF/LF list, as provided by EDR, has revealed that there are 3 SWF/LF sites within approximately 1.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
LDK COMPOST	30120 N. SKOKIE HWY.	1 - 2 SW	AB131	114
LAND RESTORATION PRODUCTS TRAN	30120 N. SKOKIE HIGHWAY	1 - 2 SW	AB132	114
DK TRANSFER STATION	30088 N. SKOKIE HWY.	1 - 2 SSW	AB136	116

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Illinois Environmental Protection Agency's LUST Incident Report.

A review of the LUST list, as provided by EDR, and dated 02/22/2005 has revealed that there are 54 LUST sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
VA HOSPITAL	3002 NORTH GREEN BAY RD	0 - 1/8 N	A1	6
US VA MEDICAL CENTER NORTH CHI	IL RTE 137	0 - 1/8 N	A3	7
VETERANS ADMINISTRATION MEDICA	3001 GREEN BAY ROAD	0 - 1/8 N	A8	14
STANCZAK, DR. RONALD	2233 GREEN BAY RD.	1/2 - 1 NNW	F30	31
JIM'S SUPER SERVICE	2704 MARTIN LUTHER KING	1/2 - 1 N	J41	48
AMOCO OIL CO. #18641	22ND / GREENBAY	1/2 - 1 NNW	M58	63
SHELL OIL CO.	22ND / GREEN BAY	1/2 - 1 NNW	M63	65
SHELL OIL CO.	22ND / GREENBAY RD.	1/2 - 1 NNW	M64	66
TOBY'S TAVERN	1930 GREENBAY RD.	1 - 2 NNW	Z124	107
BALMES FLOWER SHOP & GREENHOUS	1720 GREEN BAY RD.	1 - 2 NNW	150	126

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
GREAT LAKES NAVAL TRAINING CTR	2912 MERIDIAN RD.	1/4 - 1/2SSW	10	15

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
DEPT. OF THE NAVY	3216B MISSISSIPPI ST.	1/2 - 1 W	18	25
WOODLAND APARTMENTS	3500 GREEN BAY RD.	1/2 - 1 S	D22	27
FRANCIS, JOHN	2413 MARTIN LUTHER KING	1/2 - 1 N	I39	47
EMRO MARKETING	2850 SKOKIE HWY.	1/2 - 1 W	K49	56
EMRO MARKETING NO 7459	SKOKIE BLVD AND BUCKLEY	1/2 - 1 W	K50	57
SPEEDWAY SUPERAMERICA	2850 SKOKIE HWY.	1/2 - 1 W	K51	57
LARSEN TRUCKING CO.	2201 22ND ST.	1/2 - 1 NNE	L56	60
NORTH CHICAGO AUTO SERVICE	2005 22ND ST.	1/2 - 1 NNE	N59	64
OLSON OIL CO.	2004 NORTH 22ND ST.	1/2 - 1 NNE	N62	65
GREAT LAKES NAVAL TRAINING CTR	2703 SHERIDAN RD., BLDG	1/2 - 1 ENE	R78	78
GOELIEZ CONFECTIONERY CO.	1501 MORROW AVE.	1/2 - 1 NE	S83	81
ILLINOIS BELL TELEPHONE	2205 HERVEY AVE.	1/2 - 1 NE	T87	83
U.S. NAVY	5703 SHERIDAN RD.	1 - 2 ENE	X100	90
NAVAL TRAINING CENTER	BLDG. 3400	1 - 2 ENE	X101	91
NAVAL TRAINING CENTER	BLDG. 3216B	1 - 2 ENE	X102	92
NAVAL TRAINING CENTER	BLDG. 324	1 - 2 ENE	X103	93
NAVAL TRAINING CENTER	NAVAL TRAINING CENTER,	1 - 2 ENE	X104	93
U.S. NAVY GREAT LAKES	BLDG. 11	1 - 2 ENE	X105	94
NAVAL TRAINING CENTER	BLDG. 5	1 - 2 ENE	X106	95
NAVAL TRAINING CENTER	BLDG. 239	1 - 2 ENE	X107	95
NAVAL TRAINING CENTER	BLDG. 3511	1 - 2 ENE	X108	96
NAVAL TRAINING CENTER	BLDG. #13	1 - 2 ENE	X109	96
NAVAL TRAINING CENTER	BLDG. 16001, RAY ST.	1 - 2 ENE	X110	97
NAVAL TRAINING CENTER	BLDG. 329	1 - 2 ENE	X111	99
NAVAL TRAINING CENTER	MERIDIAN RD., BLDG. 271	1 - 2 ENE	X112	100
NAVAL TRAINING CENTER	BLDG. 325	1 - 2 ENE	X113	100
NAVAL TRAINING CENTER	BLDG. 2710	1 - 2 ENE	X114	101
NAVAL TRAINING CENTER	BLDG. 3402	1 - 2 ENE	X115	102
SHRINERS HOSPITAL FOR CRIPPLE	29855 HWY. 41	1 - 2 SW	116	102
ADLER NORCO	2222 COMMONWEALTH	1 - 2 NE	Y119	104
MEYER MATERIAL CO.	30285 NORTH SKOKIE HWY.	1 - 2 SW	AA126	108
LIQUID CONTROLS CORP	WACKER PARK	1 - 2 WSW	143	121
FOSS PARK DIST.	3124 ARGONNE DR.	1 - 2 NNW	144	121
W.K. DEVELOPERS, INC.	500 ARDEN SHORE RD.	1 - 2 SE	145	122
NORTH CHICAGO LUMBER CO.	2ND / MAIN ST.	1 - 2 NE	147	124
LAKE BLUFF, VILLAGE OF	105 KOHL DR.	1 - 2 SE	148	124
PRESIDENT BAKING CO INC	1400 SKOKIE HWY	1 - 2 SSW	AF154	140
DEPT. OF THE NAVY	201 DECATUR AVE., BLDG.	1 - 2 E	AG155	141
GREAT LAKES NAVAL TRAINING CEN	201 DECATUR AVE., BLDG.	1 - 2 E	AG156	142
GREAT LAKES NAVAL TRAINING CTR	201 DECATUR AVE., BLDG.	1 - 2 E	AG157	142
STACK, MARY	2010 SHERIDAN RD.	1 - 2 NE	AE158	143
NATIONAL AUTOMOTIVE	1300 SKOKIE HWY.	1 - 2 SSW	AF159	143
NORTH CHICAGO HS	1717 17TH ST	1 - 2 NNE	160	144

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Illinois State Fire Marshal's STC Facility List.

A review of the UST list, as provided by EDR, and dated 03/23/2005 has revealed that there are 35 UST sites within approximately 1.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
US VA MEDICAL CENTER NORTH CHI	IL RTE 137	0 - 1/8 N	A3	7
FINCH UNIVERSITY OF HEALTH SCI	3333 GREEN BAY RD	1/4 - 1/2 S	B13	17

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
PHILLIPS 66 CO #014020	2223 GREEN BAY	1/2 - 1 NNW	F32	32
NORTH CHICAGO SHELL	2210 S GREEN BAY RD	1/2 - 1 NNW	F37	45
NORTH CHICAGO AUTO SERVICE	2704 MARTIN LUTHER KING	1/2 - 1 N	J42	49
JIM'S SUPER SERVICE	2704 MARTIN LUTHER KING	1/2 - 1 N	J43	51
SHELL OIL CO	22ND ST & GREENBAY RDS	1/2 - 1 NNW	M65	67
AMOCO OIL #18641 FAC#10293	2132 GREENBAY ROAD	1/2 - 1 NNW	Q73	73
TOBYS TAVERN	1930 GREENBAY RD	1 - 2 NNW	Z123	106
MODERN CEMETERY & MAUSOLEUM	18TH & GREENBAY RD	1 - 2 NNW	142	120

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
UNIVERSITY OF HEALTH SCIENCES	3471 GREENBAY RD	1/2 - 1 S	D19	26
WOODLAND APARTMENTS	3500 GREEN BAY RD	1/2 - 1 S	D23	28
WOODLAND APARTMENTS	3500 GREEN BAY RD	1/2 - 1 S	D24	29
TRANSPORTATION DEPARTMENT	NAVY PUBLIC WORKS CENTE	1/2 - 1 ENE	25	29
NICK TEXACO	RTE 137 & 41	1/2 - 1 W	H36	43
NAPA AUTO PARTS	2413 MARTIN LUTHER KING	1/2 - 1 N	I38	47
SPEEDWAY UNIT 7459	2850 SKOKIE HWY	1/2 - 1 W	K48	53
SPEEDWAY STATION	2850 SKOKIE HWY 41	1/2 - 1 W	K55	59
LARSON RONALD EXCNG AND TRKNG	2201 22ND	1/2 - 1 NNE	L57	60
QUIK STOP	3300 SKOKIE HWY	1/2 - 1 SW	O66	68
MERCHANTS MOVING&STORAGE INC	1550 24TH ST	1/2 - 1 NE	P68	71
NAVAL TRAINING CENTER	BLDG 1A 2703 SHERIDAN R	1/2 - 1 E	75	77
GEATER HUBERT	22ND & HILLCREST	1/2 - 1 NW	81	79
GOELITZ CONFECTIONERY CO	1501 MORROW AVE	1/2 - 1 NE	S84	81
IL BELL TELEPHONE CO	2205 HERVEY AVE	1/2 - 1 NE	T85	82
HMT MANUFACTURING CORPORATION	2575 COMMONWEALTH AVE	1/2 - 1 ENE	U88	84
MOBIL #1	3396 BUCKLEY ROAD	1/2 - 1 W	89	84
SOUTH GATE CORPORATION	3092 N SKOKIE HWY	1/2 - 1 SW	98	89
LAKE COUNTY INDUSTRIAL WHS	1200 MARTIN LUTHER KING	1 - 2 NE	118	103
ADLER NORCO	2222 COMMONWEALTH	1 - 2 NE	Y120	105
NORTH CHICAGO YARD 21	30285 N SKOKIE HWY	1 - 2 SW	AA127	109
PHILLIPS 66 CO #040053	1003 22ND ST	1 - 2 NE	128	110
COMMANDING OFFICER NAVAL HOSP	BLDG 38-H STAFF CIVIL	1 - 2 ESE	137	117
EMCO CHEMICAL DISTRIBUTORS INC	2100 COMMONWEALTH AVE	1 - 2 NE	AD140	118
NAVAL HOSPITAL	3001 6TH ST BLG 200H	1 - 2 E	141	119

IMPDMNT: Statewide inventory of industrial, municipal, mining, oil & gas, and large agricultural impoundment. This study was conducted by the Illinois EPA to assess potential for contamination of shallow aquifers. This was a one-time study. Although many of the impoundments may no longer be present, the sites may be contaminated.

A review of the IMPDMNT list, as provided by EDR, and dated 12/31/1980 has revealed that there are 2 IMPDMNT sites within approximately 1.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
GOODYEAR TIRE & RUBBER CO		1 - 2 SSW	146	123
NORTH CHICAGO REFINERS & SMELT		1 - 2 NE	149	125

EXECUTIVE SUMMARY

FEDERAL ASTM SUPPLEMENTAL

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 04/11/2005 has revealed that there are 45 FINDS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
US VA MEDICAL CENTER NORTH CHI	IL RTE 137	0 - 1/8 N	A3	7
VETERANS ADMINISTRATION MEDICA	3001 GREEN BAY ROAD	0 - 1/8 N	A4	14
ROSALIND FRANKLIN UNIV OF MEDI	3333 GREEN BAY RD	1/4 - 1/2 S	B12	16
GFI PRESS DBA VOGUE PRINTERS	2421 GREENBAY RD	1/4 - 1/2 NNW	17	25
ABBOTT LABORATORIES	2323 GREEN BAY RD	1/2 - 1 NNW	E21	27
NORTH CHICAGO SHELL	2210 S GREENBAY RD	1/2 - 1 NNW	E26	30
WOODLAND APARTMENTS INC	3500 GREEN BAY RD	1/2 - 1 S	28	31
STANCZAK & SCHULIEN P C	2233 GREENBAY RD	1/2 - 1 NNW	F29	31
DOUGS SVC STA	22ND & PROSPECT	1/2 - 1 N	J40	48
HIGHLAND CLEANERS	2710 22ND ST	1/2 - 1 N	J44	52
AMOCO 18641	2131 GREENBAY AND 22ND	1/2 - 1 NNW	Q72	72
AMOCO OIL CO	2132 GREEN BAY RD	1/2 - 1 NNW	Q74	77
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
GREAT LAKES NAVAL TRAINING CTR	2710 MERIDIAN DRIVE	1/8 - 1/4 SW	9	15
US NAVY GREAT LAKES NAVAL BASE	PUBLIC WORKS CENTER BLD	1/4 - 1/2 SW	C14	18
BATH IRON WORKS CORP	GREAT LAKES TNG CTR BLD	1/4 - 1/2 SW	C15	23
US NAVY NAVY EXCHANGE	2601 A PAUL JONES STREE	1/4 - 1/2 SW	C16	24
UNIVERSITY OF HEALTH SCIENCES	3471 GREEN BAY RD	1/2 - 1 S	D20	26
OHMAN DESCALING SERVICES INC	2929 23RD PL	1/2 - 1 NNW	27	30
SANTEK CHEMICALS	3150 SKOKIE HWY	1/2 - 1 WSW	31	32
CERTIFIED AUTO BODY AND SALES	29770 N HWY 41	1/2 - 1 W	33	35
INGRID LTD	3601 N SKOKIE HWY	1/2 - 1 WSW	G34	35
ABBOTT LABORATORIES	3601 NORTH SKOKIE HIGHW	1/2 - 1 WSW	G35	36
PRECISION FRAME AND ALIGNMENT	2868 SKOKIE HWY	1/2 - 1 W	H46	53
EMRO MARKETING NO 7459	SKOKIE BLVD AND BUCKLEY	1/2 - 1 W	K50	57
LAST DETAIL INC THE	2900 US RTE 41	1/2 - 1 W	K52	58
HANKS CLEANERS II	2219 22ND ST	1/2 - 1 NNE	L53	58
LARSON RONALD EXCNG AND TRKNG	2201 22ND	1/2 - 1 NNE	L57	60
OLSON OIL COMPANY	2004 N 22ND ST	1/2 - 1 NNE	N60	64
NORTH CHICAGO AUTO SERVICE	2005 22ND ST	1/2 - 1 NNE	N61	64
QUIK STOP	3300 SKOKIE HWY	1/2 - 1 SW	O67	71
COLEMAN CABLE SYSTEMS INCORPOR	1550 24TH STREET	1/2 - 1 NE	P69	71
MAINE PLASTICS INC.	1550 24TH STREET	1/2 - 1 NE	P70	72
KETONE AUTOMOTIVE INC	3115 BEACON	1/2 - 1 W	71	72
IEPA OER	24TH & GREENFIELD	1/2 - 1 ENE	76	77
NAVY PUBLIC WORKS CENTER	2703 SHERIDAN RD	1/2 - 1 ENE	R77	78
DEPARTMENT OF THE NAVY	2701 SHERIDAN RD	1/2 - 1 ENE	R79	78
GOELITZ CONFECTIONERY COMPANY	1501 MORROW AVENUE	1/2 - 1 NE	S82	80

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
SBC AMERITECH	2205 HERVEY	1/2 - 1 NE	T86	82
COLEMAN CABLE SYSTEMS	2500 COMMONWEALTH AVE	1/2 - 1 ENE	U90	86
PHOTO PREPCO	2325 DAVIS ST	1/2 - 1 NE	V91	86
COLEMAN CABLE	2323 DAVIS RD	1/2 - 1 NE	V92	87
LIBERTY COACH INC	1400 MORROW AVE	1/2 - 1 NE	V93	87
COLEMAN CABLE SYSTEMS INCORPOR	2305 DAVIS STREET	1/2 - 1 NE	V94	87
CORD PRODUCTS	2301 DAVIS STREET	1/2 - 1 NE	V95	88
IDOT	2401 COMMONWEALTH BLVD	1/2 - 1 ENE	96	88

HMIRS: The Hazardous Materials Incident Report System contains hazardous material spill incidents reported to the Department of Transportation. The source of this database is the U.S. EPA.

A review of the HMIRS list, as provided by EDR, and dated 12/31/2004 has revealed that there is 1 HMIRS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
Not reported	2860 SKOKIE HWY	1/2 - 1 W	K47	53

MLTS: The Material Licensing Tracking System is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and are subject to NRC licensing requirements.

A review of the MLTS list, as provided by EDR, and dated 01/12/2005 has revealed that there are 2 MLTS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
VETERANS ADMINISTRATION MEDICA	3001 GREEN BAY ROAD	0 - 1/8 N	A8	14
UNIVERSITY OF HEALTH SCIENCES	3333 GREEN BAY RD.	1/4 - 1/2 S	B11	16

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

A review of the DOD list, as provided by EDR, and dated 10/01/2003 has revealed that there is 1 DOD site within approximately 2 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
GREAT LAKES NAVAL TRAINING CEN		0 - 1/8	0	6

RAATS: The RCRA Administration Action Tracking System contains records based on enforcement actions issued under RCRA and pertaining to major violators. It includes administrative and civil actions brought by the United States Environmental Protection Agency. The source of this database is the U.S. EPA.

A review of the RAATS list, as provided by EDR, and dated 04/17/1995 has revealed that there is 1 RAATS site within approximately 1 mile of the target property.

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
ABBOTT LABORATORIES	3601 NORTH SKOKIE HIGHW	1/2 - 1 WSW G35		36

STATE OR LOCAL ASTM SUPPLEMENTAL

DRYCLEANERS: Any business interested in operating a drycleaning facility in Illinois needs to apply for a license through the Illinois Drycleaner Environmental Response trust Fund.

A review of the DRYCLEANERS list, as provided by EDR, and dated 03/01/2005 has revealed that there are 2 DRYCLEANERS sites within approximately 1.25 miles of the target property.

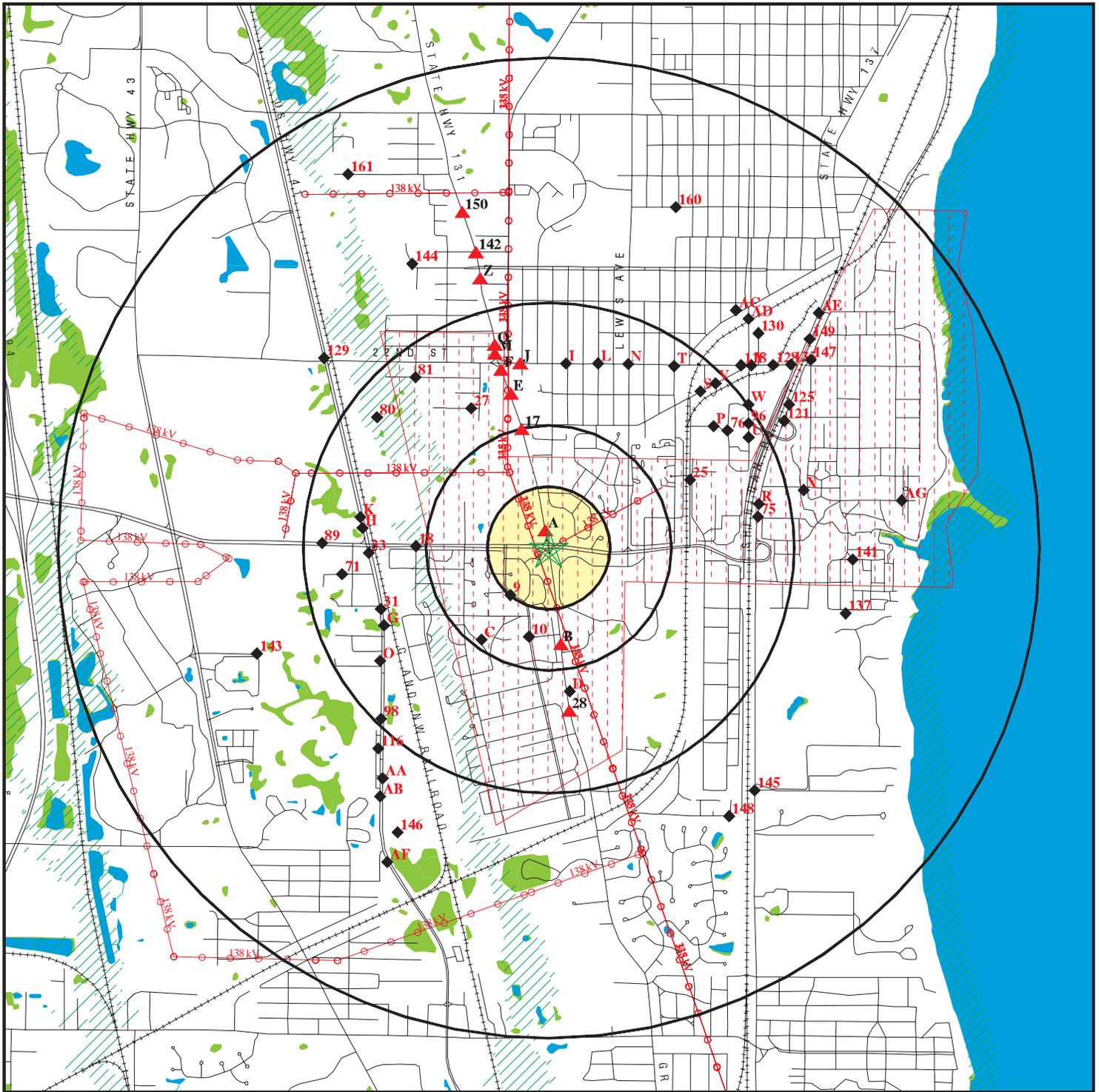
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
HIGHLAND CLEANER	2710 22ND STREET	1/2 - 1 N	J45	53
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
HANK'S CLEANERS	2219 22ND STREET	1/2 - 1 NNE	L54	59

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
GREAT LAKES NAVAL TRAINING CENTER	FTTS INSP
GREAT LAKES NAVAL TRAINING CENTER	FTTS INSP
TRIPLE XXX PACKAGING	FTTS INSP
ABBOTT LABS	FTTS INSP
ABBOTT LABORATORIES	FTTS INSP
COMMONWEALTH EDISON	FINDS, FTTS INSP
WESTVACO ENVELOPE DIVISION	FTTS INSP
ABBOTT LAB SKOKIE WAREHOUSE	CERC-NFRAP
GREAT LAKES NAVAL TRAINING CENTER	LUST
DEPT. OF THE NAVY	LUST
U.S. NAVY	LUST
DEPT. OF THE NAVY	LUST
NORTHSHORE WASTE	LUST
RYDER STUDENT TRANSPORTATION	LUST
AMOCO OIL CO.	LUST
ANDROS, JAMES H.	LUST
TRI-X	UST
WATER PLANT	UST
MASONRY BY FERNANDO	UST
MASONRY BY FERNANDO	UST
SPARKLING SPRING WATER	RCRA-SQG, FINDS
HEXAGON PKG CORP	RCRA-SQG, FINDS
WAUKEGAN DRY CLEANERS	US BROWNFIELDS
ABBOTT LABORATORIES, CAPD, D-928	SSTS
ABBOTT LABORATORIES, CAPD, D-928	SSTS

OVERVIEW MAP - 01426898.1r - MACTEC, Inc.

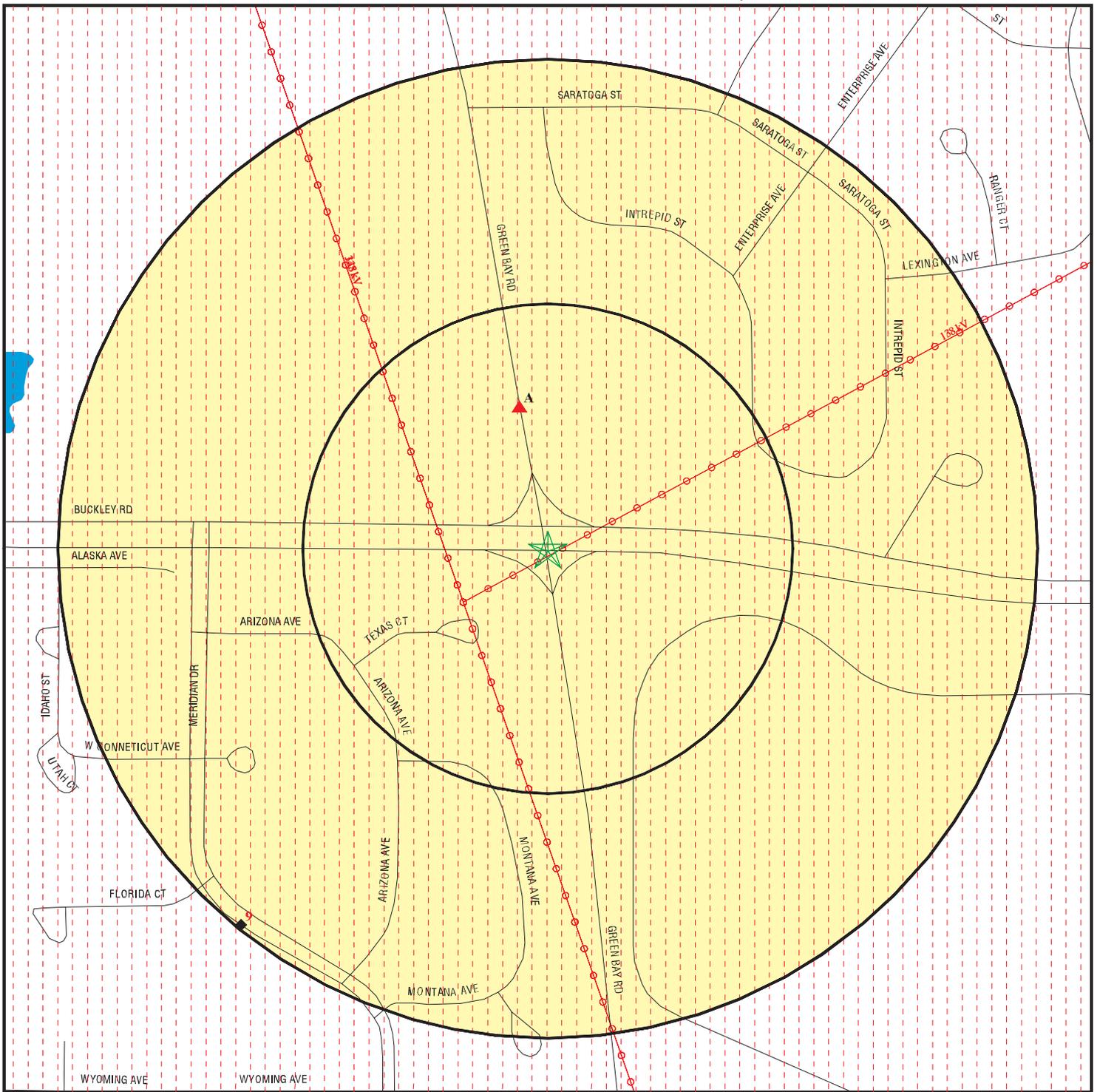


- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- ▨ National Priority List Sites
- ▨ Landfill Sites
- ▨ Dept. Defense Sites
- ▨ Indian Reservations BIA
- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- ▨ Federal Wetlands

TARGET PROPERTY: Forestal, Halsey, Nimitz
ADDRESS: Green Bay Road / Buckley Road
CITY/STATE/ZIP: Great Lakes IL 60088
LAT/LONG: 42.3085 / 87.8625

CUSTOMER: MACTEC, Inc.
CONTACT: Benita Theleen
INQUIRY #: 01426898.1r
DATE: May 23, 2005 9:34 am

DETAIL MAP - 01426898.1r - MACTEC, Inc.



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- 0 1/16 1/8 1/4 Miles
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone



TARGET PROPERTY: Forestal, Halsey, Nimitz
 ADDRESS: Green Bay Road / Buckley Road
 CITY/STATE/ZIP: Great Lakes IL 60088
 LAT/LONG: 42.3085 / 87.8625

CUSTOMER: MACTEC, Inc.
 CONTACT: Benita Theleen
 INQUIRY #: 01426898.1r
 DATE: May 23, 2005 9:34 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL ASTM STANDARD</u>								
NPL		2.000	0	0	0	0	0	0
Proposed NPL		2.000	0	0	0	0	0	0
CERCLIS		1.500	0	0	1	0	2	3
CERC-NFRAP		1.250	0	0	0	1	0	1
CORRACTS		2.000	0	0	1	1	3	5
RCRA TSD		1.500	0	0	0	0	2	2
RCRA Lg. Quan. Gen.		1.250	0	0	2	5	4	11
RCRA Sm. Quan. Gen.		1.250	1	0	3	20	9	33
ERNS		1.000	4	0	0	1	NR	5
<u>STATE ASTM STANDARD</u>								
State Haz. Waste		2.000	0	0	0	0	1	1
State Landfill		1.500	0	0	0	0	3	3
LUST		1.500	3	0	1	17	33	54
UST		1.250	1	0	1	24	9	35
SRP		1.500	0	0	0	0	0	0
IMPDMNT		1.500	0	0	0	0	2	2
CAT		2.000	0	0	0	0	0	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>								
CONSENT		2.000	0	0	0	0	0	0
ROD		2.000	0	0	0	0	0	0
Delisted NPL		2.000	0	0	0	0	0	0
FINDS		1.000	2	1	5	37	NR	45
HMIRS		1.000	0	0	0	1	NR	1
MLTS		1.000	1	0	1	0	NR	2
MINES		1.250	0	0	0	0	0	0
NPL Liens		1.000	0	0	0	0	NR	0
PADS		1.000	0	0	0	0	NR	0
DOD		2.000	1	0	0	0	0	1
INDIAN RESERV		2.000	0	0	0	0	0	0
UMTRA		1.500	0	0	0	0	0	0
US ENG CONTROLS		1.500	0	0	0	0	0	0
ODI		1.500	0	0	0	0	0	0
FUDS		2.000	0	0	0	0	0	0
RAATS		1.000	0	0	0	1	NR	1
TRIS		1.000	0	0	0	0	NR	0
TSCA		1.000	0	0	0	0	NR	0
SSTS		1.000	0	0	0	0	NR	0
FTTS		1.000	0	0	0	0	NR	0
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>								
IL NIPC		1.500	0	0	0	0	0	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
DRYCLEANERS		1.250	0	0	0	2	0	2
ENG CONTROLS		1.500	0	0	0	0	0	0
<u>EDR PROPRIETARY HISTORICAL DATABASES</u>								
Coal Gas		2.000	0	0	0	0	0	0
<u>BROWNFIELDS DATABASES</u>								
US BROWNFIELDS		1.500	0	0	0	0	0	0
US INST CONTROL		1.500	0	0	0	0	0	0
Inst Control		1.500	0	0	0	0	0	0
BROWNFIELDS		1.500	0	0	0	0	0	0
SRP		1.500	0	0	0	0	0	0

NOTES:

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database



EDR™ Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Great Lakes Naval Training Ctr
Sheridan Road and Route 137
Great Lakes, IL 60088**

Inquiry Number: 1426914.2s

May 23, 2005

The Standard in Environmental Risk Management Information

**440 Wheelers Farms Road
Milford, Connecticut 06460**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com**

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

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

SHERIDAN ROAD AND ROUTE 137
GREAT LAKES, IL 60088

COORDINATES

Latitude (North):	42.313700 - 42° 18' 49.3"
Longitude (West):	87.840500 - 87° 50' 25.8"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	430732.6
UTM Y (Meters):	4684735.0
Elevation:	644 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	42087-C7 WAUKEGAN, IL
Source:	USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

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

FEDERAL ASTM STANDARD

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites

STATE ASTM STANDARD

SWF/LF..... Available Disposal for Solid Waste in Illinois - Solid Waste Landfills Subject to State Surcharge
CAT..... Category List

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... Superfund (CERCLA) Consent Decrees

EXECUTIVE SUMMARY

ROD	Records Of Decision
Delisted NPL	National Priority List Deletions
HMIRS	Hazardous Materials Information Reporting System
MINES	Mines Master Index File
NPL Liens	Federal Superfund Liens
PADS	PCB Activity Database System
INDIAN RESERV	Indian Reservations
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
FUDS	Formerly Used Defense Sites
RAATS	RCRA Administrative Action Tracking System
TSCA	Toxic Substances Control Act

STATE OR LOCAL ASTM SUPPLEMENTAL

ENG CONTROLS..... Sites with Engineering Controls

EDR PROPRIETARY HISTORICAL DATABASES

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

BROWNFIELDS DATABASES

US BROWNFIELDS..... A Listing of Brownfields Sites

Inst Control..... Institutional Controls

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

FEDERAL ASTM STANDARD

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 02/15/2005 has revealed that there are 2

EXECUTIVE SUMMARY

CERCLIS sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
R. LAVIN & SONS, INC.	2028 SHERIDAN RD.	1/2 - 1 N	N81	70
R LAVIN AND SONS INCORPORATED	2028 SHERIDAN ROAD	1/2 - 1 N	N82	71

CERCLIS-NFRAP: As of February 1995. CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund Action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

A review of the CERC-NFRAP list, as provided by EDR, and dated 03/22/2005 has revealed that there is 1 CERC-NFRAP site within approximately 1.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
COLEMAN CABLE SYSTEMS	2500 COMMONWEALTH AVE	1/4 - 1/2WNW B24		20

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

A review of the CORRACTS list, as provided by EDR, and dated 03/29/2005 has revealed that there are 5 CORRACTS sites within approximately 2 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
R LAVIN AND SONS INCORPORATED	2028 SHERIDAN ROAD	1/2 - 1 N	N82	71
FANSTEEL INC	ONE TANTALUM PL	1/2 - 1 NNW	85	84
ABBOTT LABORATORIES NORTH CHIC	1401 SHERIDAN ROAD	1 - 2 N	AE158	151
US NAVY GREAT LAKES NAVAL BASE	PUBLIC WORKS CENTER BLD	1 - 2 WSW	161	163
ABBOTT LABORATORIES	3601 NORTH SKOKIE HIGHW	1 - 2 WSW	163	169

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/13/2005 has revealed that there are

EXECUTIVE SUMMARY

3 RCRA-TSDF sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>R LAVIN AND SONS INCORPORATED</i>	<i>2028 SHERIDAN ROAD</i>	<i>1/2 - 1 N</i>	<i>N82</i>	<i>71</i>
<i>FANSTEEL INC</i>	<i>ONE TANTALUM PL</i>	<i>1/2 - 1 NNW</i>	<i>85</i>	<i>84</i>
<i>ABBOTT LABORATORIES NORTH CHIC</i>	<i>1401 SHERIDAN ROAD</i>	<i>1 - 2 N</i>	<i>AE158</i>	<i>151</i>

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/13/2005 has revealed that there are 8 RCRA-LQG sites within approximately 1.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>FEDERAL CHICAGO CORPORATION</i>	<i>925 E. M.L.KING DRIVE</i>	<i>1/4 - 1/2NNW</i>	<i>F47</i>	<i>55</i>
<i>GOELITZ CONFECTIONERY COMPANY SERVICE STATION</i>	<i>1501 MORROW AVENUE</i>	<i>1/2 - 1 WNW</i>	<i>M84</i>	<i>84</i>
<i>NORTH CHICAGO LUMBER CO</i>	<i>2010 SHERIDAN RD</i>	<i>1/2 - 1 N</i>	<i>N86</i>	<i>86</i>
<i>EMCO CHEMICAL DISTRIBUTORS INC</i>	<i>2ND AV AND MAIN ST</i>	<i>1/2 - 1 N</i>	<i>91</i>	<i>91</i>
<i>CERTIFIED PACKAGING CORP</i>	<i>2100 COMMONWEALTH AVENU</i>	<i>1/2 - 1 NNW</i>	<i>O97</i>	<i>96</i>
	<i>1950 MARQUETTE ST</i>	<i>1/2 - 1 N</i>	<i>P100</i>	<i>98</i>
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>EMCO CHEMICAL DISTRIBUTORS</i>	<i>2740 CABLE PLACE</i>	<i>1/4 - 1/2NW</i>	<i>G57</i>	<i>59</i>
<i>VACANT LOT SITE</i>	<i>1120 MARTIN LUTHER KING</i>	<i>1/4 - 1/2NW</i>	<i>K67</i>	<i>63</i>

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/13/2005 has revealed that there are 23 RCRA-SQG sites within approximately 1.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>MARYS NAVAL CLEANERS</i>	<i>2128 N SHERIDAN RD</i>	<i>1/4 - 1/2NNW</i>	<i>20</i>	<i>19</i>

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
COLEMAN CABLE SYSTEMS	2500 COMMONWEALTH AVE	1/4 - 1/2 WNW	B24	20
CPI PLASTICS GROUP INC	2332 COMMONWEALTH	1/4 - 1/2 NW	E42	53
PHOTO PREPCO	2325 DAVIS ST	1/2 - 1 WNW	L71	66
COLEMAN CABLE	2323 DAVIS RD	1/2 - 1 NW	L72	66
COLEMAN CABLE SYSTEMS INCORPOR	2305 DAVIS STREET	1/2 - 1 NW	L73	66
LIBERTY COACH INC	1400 MORROW AVE	1/2 - 1 NW	L75	67
R LAVIN AND SONS INCORPORATED	2028 SHERIDAN ROAD	1/2 - 1 N	N82	71
FANSTEEL INC	ONE TANTALUM PL	1/2 - 1 NNW	85	84
CERAMCO INC	2700 GREENFIELD AVE	1/2 - 1 NNW	Q103	99
CARLIN CORP	2650 GREENFIELD	1/2 - 1 NNW	Q104	100
SBC AMERITECH	2205 HERVEY	1/2 - 1 WNW	R107	101
STONE CONTAINER CORPORATION N	1900 FOSS PARK AVENUE	1/2 - 1 NNE	T113	115
LARSON RONALD EXCNG AND TRKNG	2201 22ND	1 - 2 WNW	W124	121
HANKS CLEANERS II	2219 22ND ST	1 - 2 WNW	W126	123
UNICOM POWER HOLDINGS INC	501 FOSS PARK AVE	1 - 2 N	X127	124
CITY OF NORTH CHICAGO WATER DE	1850 LEWIS AVE	1 - 2 NW	Z137	131
US VA MEDICAL CENTER NORTH CHI	IL RTE 137	1 - 2 WSW	AA139	132
NORTH CHICAGO HS	1717 17TH ST	1 - 2 NNW	AC144	141
GFI PRESS DBA VOGUE PRINTERS	2421 GREENBAY RD	1 - 2 W	146	144
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NOSCO INC	1450 N SHERIDAN RD	1/8 - 1/4 NW	19	18
DEPARTMENT OF THE NAVY	2701 SHERIDAN RD	1/4 - 1/2 WSW	C23	20
ADLER NORCO	2222 COMMONWEALTH	1/4 - 1/2 NW	G66	62

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2004 has revealed that there are 12 ERNS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
201 DECATUR AVE	201 DECATUR AVE	1/4 - 1/2 ESE	D31	29
201 DECATUR AVE	201 DECATUR AVE	1/4 - 1/2 ESE	D32	29
201 DECATUR AVE	201 DECATUR AVE	1/4 - 1/2 ESE	D34	30
201 DECATUR AVE	201 DECATUR AVE	1/4 - 1/2 ESE	D35	30
201 DECATUR AVE	201 DECATUR AVE	1/4 - 1/2 ESE	D36	31
201 DECATUR AVE	201 DECATUR AVE	1/4 - 1/2 ESE	D40	53
2332 COMMONWEALTH AVE	2332 COMMONWEALTH AVE	1/4 - 1/2 NW	E43	54
COLEMAN CABLE SYS INC	COLEMAN CABLE SYS INC	1/4 - 1/2 WNW	E52	57
2028 SHERIDAN RD	2028 SHERIDAN RD	1/2 - 1 N	N79	69
2100 COMMOM WEALTH AVE.	2100 COMMOM WEALTH AVE.	1/2 - 1 NNW	O92	91
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NAVAL TRAINING STA BLD 912/ NA	NAVAL TRAINING STA BLD	1/8 - 1/4 SW	A3	7
NAVAL TRAINING STATION BLDG 22	NAVAL TRAINING STATION	1/8 - 1/4 SW	A14	15

EXECUTIVE SUMMARY

STATE ASTM STANDARD

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Illinois Environmental Protection Agency's Category List.

A review of the SHWS list, as provided by EDR, has revealed that there are 2 SHWS sites within approximately 2 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
R LAVIN AND SONS INC	2028 SHERIDAN ROAD	1/2 - 1 N	N83	84
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
U.S. STEEL CORP	10TH AND SHERIDAN	1 - 2 NNE	162	168

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Illinois Environmental Protection Agency's LUST Incident Report.

A review of the LUST list, as provided by EDR, and dated 02/22/2005 has revealed that there are 50 LUST sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
GREAT LAKES NAVAL TRAINING CEN	201 DECATUR AVE., BLDG.	1/4 - 1/2ESE	D30	29
GREAT LAKES NAVAL TRAINING CTR	201 DECATUR AVE., BLDG.	1/4 - 1/2ESE	D33	30
DEPT. OF THE NAVY	201 DECATUR AVE., BLDG.	1/4 - 1/2ESE	D38	31
NORTH CHICAGO LUMBER CO.	2ND / MAIN ST.	1/4 - 1/2N	51	56
GOELIEZ CONFECTIONERY CO.	1501 MORROW AVE.	1/2 - 1 WNW	M78	69
STACK, MARY	2010 SHERIDAN RD.	1/2 - 1 N	N87	87
NBD TRUST CO. OF ILLINOIS	1950 NORTH MARQUETTE AV	1/2 - 1 N	P102	99
ILLINOIS BELL TELEPHONE	2205 HERVEY AVE.	1/2 - 1 WNW	R105	100
STONE CONTAINER CORPORATION N	1900 FOSS PARK AVENUE	1/2 - 1 NNE	T113	115
NORTH CHICAGO AUTO SERVICE	2005 22ND ST.	1/2 - 1 WNW	V116	117
OLSON OIL CO.	2004 NORTH 22ND ST.	1/2 - 1 WNW	V119	118
LARSEN TRUCKING CO.	2201 22ND ST.	1 - 2 WNW	W123	120
BROWN PRINTING	501 FOSS PARK AVE.	1 - 2 N	X128	124
FOSS PARK DIST.	SHERIDAN RD. / FOSS P	1 - 2 N	130	127
FRANCIS, JOHN	2413 MARTIN LUTHER KING	1 - 2 WNW	Y131	128
VA HOSPITAL	3002 NORTH GREEN BAY RD	1 - 2 WSW	AA138	132
US VA MEDICAL CENTER NORTH CHI	IL RTE 137	1 - 2 WSW	AA139	132
VETERANS ADMINISTRATION MEDICA	3001 GREEN BAY ROAD	1 - 2 WSW	AA140	139
SHORE ACRES	1601 SHORE ACRES RD.	1 - 2 S	AB142	141
NORTH CHICAGO HS	1717 17TH ST	1 - 2 NNW	AC144	141
JIM'S SUPER SERVICE	2704 MARTIN LUTHER KING	1 - 2 WNW	148	145
NOSCO	1450 N SHERIDAN	1 - 2 N	149	145
STANCZAK, DR. RONALD	2233 GREEN BAY RD.	1 - 2 WNW	150	146
W.K. DEVELOPERS, INC.	500 ARDEN SHORE RD.	1 - 2 SSW	151	147
AMOCO OIL CO. #18641	22ND / GREENBAY	1 - 2 WNW	AD152	147
ADDIST ROCKINGHAM & PAPAS	1445 GREENFIELD AVE.	1 - 2 NNW	153	148
ABBOTT LABORATORIES	1410 SHERIDAN RD.	1 - 2 N	AE154	148
GREAT LAKES NAVAL TRAINING CTR	2912 MERIDIAN RD.	1 - 2 WSW	155	149
SHELL OIL CO.	22ND / GREEN BAY	1 - 2 WNW	AD156	150

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
SHELL OIL CO.	22ND / GREENBAY RD.	1 - 2 WNW	AD157	150
ABBOTT LABS.		1 - 2 N	AE159	160
WOODLAND APARTMENTS	3500 GREEN BAY RD.	1 - 2 SW	160	162
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
U.S. NAVY	5703 SHERIDAN RD.	1/8 - 1/4 SW	A1	6
NAVAL TRAINING CENTER	NAVAL TRAINING CENTER,	1/8 - 1/4 SW	A2	7
U.S. NAVY GREAT LAKES	BLDG. 11	1/8 - 1/4 SW	A4	7
NAVAL TRAINING CENTER	BLDG. 3400	1/8 - 1/4 SW	A5	8
NAVAL TRAINING CENTER	BLDG. 3511	1/8 - 1/4 SW	A6	9
NAVAL TRAINING CENTER	BLDG. 16001, RAY ST.	1/8 - 1/4 SW	A7	9
NAVAL TRAINING CENTER	BLDG. 5	1/8 - 1/4 SW	A8	11
NAVAL TRAINING CENTER	BLDG. #13	1/8 - 1/4 SW	A9	12
NAVAL TRAINING CENTER	MERIDIAN RD., BLDG. 271	1/8 - 1/4 SW	A10	12
NAVAL TRAINING CENTER	BLDG. 2710	1/8 - 1/4 SW	A11	13
NAVAL TRAINING CENTER	BLDG. 3402	1/8 - 1/4 SW	A12	14
NAVAL TRAINING CENTER	BLDG. 329	1/8 - 1/4 SW	A13	15
NAVAL TRAINING CENTER	BLDG. 325	1/8 - 1/4 SW	A15	16
NAVAL TRAINING CENTER	BLDG. 3216B	1/8 - 1/4 SW	A16	16
NAVAL TRAINING CENTER	BLDG. 324	1/8 - 1/4 SW	A17	17
NAVAL TRAINING CENTER	BLDG. 239	1/8 - 1/4 SW	A18	18
GREAT LAKES NAVAL TRAINING CTR	2703 SHERIDAN RD., BLDG	1/4 - 1/2 WSW	C25	21
ADLER NORCO	2222 COMMONWEALTH	1/4 - 1/2 NW	G66	62

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Illinois State Fire Marshal's STC Facility List.

A review of the UST list, as provided by EDR, and dated 03/23/2005 has revealed that there are 31 UST sites within approximately 1.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
BUILDING #1506	201 DECATUR AVE/ENV. DE	1/4 - 1/2 NNE	27	22
DEPARTMENT OF THE NAVY	201 DECATUR AVE BUILDIN	1/4 - 1/2 ESE	D29	28
NTC ENVIRONMENTAL DEPT	201 DECATUR AVENUE, BUI	1/4 - 1/2 ESE	D39	32
NAVAL TRAINING CENTER	BLDG 1A 2703 SHERIDAN R	1/4 - 1/2 SW	41	53
NAVAL HOSPITAL	3001 6TH ST BLG 200H	1/4 - 1/2 SSE	54	57
PHILLIPS 66 CO #040053	1003 22ND ST	1/4 - 1/2 NNW	55	58
MERCHANTS MOVING&STORAGE INC	1550 24TH ST	1/4 - 1/2 WNW	J63	61
LAKE COUNTY INDUSTRIAL WHS	1200 MARTIN LUTHER KING	1/2 - 1 NW	K69	65
TRANSPORTATION DEPARTMENT	NAVY PUBLIC WORKS CENTE	1/2 - 1 W	76	68
GOELITZ CONFECTIONERY CO	1501 MORROW AVE	1/2 - 1 WNW	M77	68
N CHICAGO REFINERS & SMELTER	2028 SHERIDAN DR	1/2 - 1 N	N80	70
SERVICE STATION	2010 SHERIDAN RD	1/2 - 1 N	N88	87
COMMANDING OFFICER NAVAL HOSP	BLDG 38-H STAFF CIVIL	1/2 - 1 S	90	90
EMCO CHEMICAL DISTRIBUTORS INC	2100 COMMONWEALTH AVE	1/2 - 1 NNW	O94	92
IL BELL TELEPHONE CO	2205 HERVEY AVE	1/2 - 1 WNW	R106	101
SHOREACRES	1601 SHOREACRES RD	1/2 - 1 S	108	102
CHEMICAL PACKAGING CORP	1901 SHERIDAN RD	1/2 - 1 N	S110	103
STONE CONTAINER CORP	1900 FOSS PARK AVE	1/2 - 1 NNE	T112	114
DEMOLITION SITE	1811 SHERIDAN ROAD	1/2 - 1 N	U115	116
FOSS PARK DIST	FOSS AVE	1/2 - 1 NNE	122	119
LARSON RONALD EXCNG AND TRKNG	2201 22ND	1 - 2 WNW	W124	121

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
LARSEN WAREHOUSE	501 FOSS PARK AVE	1 - 2 N	X129	125
NAPA AUTO PARTS	2413 MARTIN LUTHER KING	1 - 2 WNW	Y132	128
ABBOTT LABORATORIES J-4	1609 SHERIDAN RD	1 - 2 N	134	130
ABBOTT LABORATORIES J-3	1617 LAKESIDE AVE	1 - 2 N	135	130
NORTH CHICAGO CITY OF(ESDA)	1850 LEWIS AVE	1 - 2 NW	Z136	131
US VA MEDICAL CENTER NORTH CHI	IL RTE 137	1 - 2 WSW	AA139	132
SHORES ACRES GOLF COURSE	1601 SHORE ACRES RD	1 - 2 S	AB141	140
NORTH CHOCAGO HIGH SCHOOL	1717 17TH ST	1 - 2 NNW	AC145	142

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
HMT MANUFACTURING CORPORATION	2575 COMMONWEALTH AVE	1/4 - 1/2W	B22	19
ADLER NORCO	2222 COMMONWEALTH	1/4 - 1/2NW	G65	62

SRP: Illinois Environmental Protection Agency, Site Remediation Program Database

A review of the SRP list, as provided by EDR, and dated 02/14/2005 has revealed that there are 2 SRP sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NORTH CHICAGO COMMUNITY DEVELO	1801-1811 SHERIDAN ROAD	1/2 - 1 N	U120	119
1500 SHERIDAN ROAD	1500 SHERIDAN ROAD	1 - 2 N	147	144

IMPDMNT: Statewide inventory of industrial, municipal, mining, oil & gas, and large agricultural impoundment. This study was conducted by the Illinois EPA to assess potential for contamination of shallow aquifers. This was a one-time study. Although many of the impoundments may no longer be present, the sites may be contaminated.

A review of the IMPDMNT list, as provided by EDR, and dated 12/31/1980 has revealed that there are 2 IMPDMNT sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NORTH CHICAGO REFINERS & SMELT		1/4 - 1/2N	I68	64
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NORTH SHORE SANITARY DISTRICT		1 - 2 NNE	133	129

FEDERAL ASTM SUPPLEMENTAL

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting

EXECUTIVE SUMMARY

Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 04/11/2005 has revealed that there are 45 FINDS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MARYS NAVAL CLEANERS	2128 N SHERIDAN RD	1/4 - 1/2NNW	20	19
COLEMAN CABLE SYSTEMS	2500 COMMONWEALTH AVE	1/4 - 1/2WNW	B24	20
IDOT	2401 COMMONWEALTH BLVD	1/4 - 1/2WNW	28	28
AGGREGATE SUPPLY L.L.C.	201 DECATUR AVE.	1/4 - 1/2ESE	D37	31
CPI PLASTICS GROUP INC	2332 COMMONWEALTH	1/4 - 1/2NW	E42	53
CPI PLASTICS GROUP INC	2332 COMMONWEALTH AVE	1/4 - 1/2NW	E44	54
FEDERAL CHICAGO CORPORATION	925 E. M.L.KING DRIVE	1/4 - 1/2NNW	F47	55
FEDERAL DIE CASTING CORP	925 MARTIN LUTHER KING	1/4 - 1/2NNW	F48	56
FEDERAL DIE CASTING CORPORATIO	925 MARTIN LUTHER KING	1/4 - 1/2NNW	F49	56
FEDERAL CHICAGO CORPORATION	925 MARTIN LUTHER KING	1/4 - 1/2NNW	F50	56
IEPA OER	24TH & GREENFIELD	1/4 - 1/2WNW	53	57
STACK, JOHN	2130 SHERIDAN RD	1/4 - 1/2N	I60	61
MARYS NAVAL CLEANERS	2128 SHERIDAN RD	1/4 - 1/2N	I61	61
COLEMAN CABLE SYSTEMS INCORPOR	1550 24TH STREET	1/4 - 1/2WNW	J62	61
MAINE PLASTICS INC.	1550 24TH STREET	1/4 - 1/2WNW	J64	62
FK PATTERN	1311 MORROW AVE	1/2 - 1 NW	70	65
PHOTO PREPCO	2325 DAVIS ST	1/2 - 1 WNW	L71	66
COLEMAN CABLE	2323 DAVIS RD	1/2 - 1 NW	L72	66
COLEMAN CABLE SYSTEMS INCORPOR	2305 DAVIS STREET	1/2 - 1 NW	L73	66
CORD PRODUCTS	2301 DAVIS STREET	1/2 - 1 NW	L74	67
LIBERTY COACH INC	1400 MORROW AVE	1/2 - 1 NW	L75	67
R LAVIN AND SONS INCORPORATED	2028 SHERIDAN ROAD	1/2 - 1 N	N82	71
GOELITZ CONFECTIONERY COMPANY	1501 MORROW AVENUE	1/2 - 1 WNW	M84	84
FANSTEEL INC	ONE TANTALUM PL	1/2 - 1 NNW	85	84
SERVICE STATION	2010 SHERIDAN RD	1/2 - 1 N	N86	86
SUBURBAN SCRAP	2006 SHERIDAN RD	1/2 - 1 N	N89	90
NORTH CHICAGO LUMBER CO	2ND AV AND MAIN ST	1/2 - 1 N	91	91
TRIPLE XXX PACKAGING	2100 COMMONWEALTH AVE	1/2 - 1 NNW	O93	91
EMCO CHEMICAL DISTRIBUTORS INC	2100 COMMONWEALTH AVENUE	1/2 - 1 NNW	O97	96
CERTIFIED PACKAGING CORP	1950 MARQUETTE ST	1/2 - 1 N	P100	98
CERAMCO INC	2700 GREENFIELD AVE	1/2 - 1 NNW	Q103	99
CARLIN CORP	2650 GREENFIELD	1/2 - 1 NNW	Q104	100
SBC AMERITECH	2205 HERVEY	1/2 - 1 WNW	R107	101
CHEMICAL PACKING	1901 SHERIDAN RD	1/2 - 1 N	S109	102
STONE CONTAINER CORPORATION N	1900 FOSS PARK AVENUE	1/2 - 1 NNE	T113	115
OLSON OIL COMPANY	2004 N 22ND ST	1/2 - 1 WNW	V117	117
NORTH CHICAGO AUTO SERVICE	2005 22ND ST	1/2 - 1 WNW	V118	118
Lower Elevation	Address	Dist / Dir	Map ID	Page
NOSCO INC	1450 N SHERIDAN RD	1/8 - 1/4NW	19	18
DEPARTMENT OF THE NAVY	2701 SHERIDAN RD	1/4 - 1/2WSW	C23	20
NAVY PUBLIC WORKS CENTER	2703 SHERIDAN RD	1/4 - 1/2WSW	C26	22
FAB EXPRESS INC	2323 COMMONWEALTH AVE	1/4 - 1/2NW	E45	54
TEMPLEMAN IND	2260 COMMONWEALTH AVE	1/4 - 1/2NW	G56	59
EMCO CHEMICAL DISTRIBUTORS	2740 CABLE PLACE	1/4 - 1/2NW	G57	59
ADLER NORCO	2222 COMMONWEALTH	1/4 - 1/2NW	G66	62
VACANT LOT SITE	1120 MARTIN LUTHER KING	1/4 - 1/2NW	K67	63

EXECUTIVE SUMMARY

MLTS: The Material Licensing Tracking System is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and are subject to NRC licensing requirements.

A review of the MLTS list, as provided by EDR, and dated 01/12/2005 has revealed that there are 2 MLTS sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
ARMY, DEPARTMENT OF THE	310 B. STREET	1/4 - 1/2 SSE	H58	60
ARMY, DEPARTMENT OF THE	310 B. STREET	1/4 - 1/2 SSE	H59	60

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

A review of the DOD list, as provided by EDR, and dated 10/01/2003 has revealed that there is 1 DOD site within approximately 2 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
GREAT LAKES NAVAL TRAINING CEN		0 - 1/8	0	6

ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, has revealed that there is 1 US ENG CONTROLS site within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
ABBOTT LABORATORIES NORTH CHIC	1401 SHERIDAN ROAD	1 - 2 N	AE158	151

TRIS: The Toxic Chemical Release Inventory System identifies facilities that release toxic chemicals to the air, water, and land in reportable quantities under SARA Title III, Section 313. The source of this database is the U.S. EPA.

A review of the TRIS list, as provided by EDR, and dated 12/31/2002 has revealed that there are 3 TRIS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
U.S. NAVY NAVAL TRAINING CENTE	2601A PAUL JONES ST.	1/4 - 1/2 E	21	19
FEDERAL DIE CASTING CO.	925 22ND ST.	1/4 - 1/2 NNW	F46	55
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
EMCO CHEMICAL DISTRIBUTORS	2740 CABLE PLACE	1/4 - 1/2 NW	G57	59

SSTS: Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and

EXECUTIVE SUMMARY

amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

A review of the SSTS list, as provided by EDR, and dated 12/31/2003 has revealed that there are 4 SSTS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
EMCO CHEMICAL DISTRIBUTORS, IN	2100 COMMONWEALTH AVE	1/2 - 1 NNW	O95	93
EMCO CHEMICAL DISTRIBUTORS	2100 COMMONWEALTH AVE	1/2 - 1 NNW	O96	95
COMPLETE PACKAGING CORP.	1950 MARQUETTE ST	1/2 - 1 N	P99	97
COMPLETE PACKAGING CORP.	1950 MARQUETTE STREET	1/2 - 1 N	P101	98

FTTS: FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act) over the previous five years. To maintain currency, EDR contacts the Agency on a quarterly basis.

A review of the FTTS INSP list, as provided by EDR, and dated 04/13/2005 has revealed that there are 4 FTTS INSP sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>CPI PLASTICS GROUP INC</i>	<i>2332 COMMONWEALTH</i>	<i>1/4 - 1/2NW</i>	<i>E42</i>	<i>53</i>
<i>TRIPLE XXX PACKAGING</i>	<i>2100 COMMONWEALTH AVE</i>	<i>1/2 - 1 NNW</i>	<i>O93</i>	<i>91</i>
EMCO CHEMICAL DISTRIBUTORS, IN	2100 COMMONWEALTH AVE	1/2 - 1 NNW	O98	97
STONE CONTAINER CORPORATION	1900 FOSS PARK	1/2 - 1 NNE	T111	114

STATE OR LOCAL ASTM SUPPLEMENTAL

NIPC: NIPC is an inventory of active and inactive solid waste disposal sites, based on state, local government and historical archive data. Included are numerous sites that previously had never been identified largely because, prior to 1971, there was no obligation to register such sites. The data come from the Northeastern Illinois Planning Commission's Solid Waste Landfill Inventory.

A review of the IL NIPC list, as provided by EDR, has revealed that there are 2 IL NIPC sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
STACK, JOHN		1/2 - 1 N	U121	119
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
U.S. STEEL		1 - 2 NNE	143	141

DRYCLEANERS: Any business interested in operating a drycleaning facility in Illinois needs to apply for a license through the Illinois Drycleaner Environmental Response trust Fund.

A review of the DRYCLEANERS list, as provided by EDR, and dated 03/01/2005 has revealed that there is 1 DRYCLEANERS site within approximately 1.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
HANK'S CLEANERS	2219 22ND STREET	1 - 2 WNW	W125	123

EXECUTIVE SUMMARY

BROWNFIELDS DATABASES

INST CONTROLS: A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

A review of the US INST CONTROL list, as provided by EDR, has revealed that there is 1 US INST CONTROL site within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
ABBOTT LABORATORIES NORTH CHIC	1401 SHERIDAN ROAD	1 - 2 N	AE158	151

BROWNFIELDS: The Illinois Municipal Brownfields Redevelopment Grant Program (MBRGP) offers grants worth a maximum of \$240,000 each to municipalities to assist in site investigation activities, development of cleanup objectives and performance of cleanup activities. Brownfields are abandoned or underused industrial and/or commercial properties that are contaminated (or thought to be contaminated) and have an active potential for redevelopment.

A review of the BROWNFIELDS list, as provided by EDR, and dated 01/10/2005 has revealed that there is 1 BROWNFIELDS site within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
Not reported	1818-1820 SHERIDAN RD.	1/2 - 1 N	U114	116

SRP: Illinois Environmental Protection Agency, Site Remediation Program Database

A review of the SRP list, as provided by EDR, and dated 02/14/2005 has revealed that there are 2 SRP sites within approximately 1.5 miles of the target property.

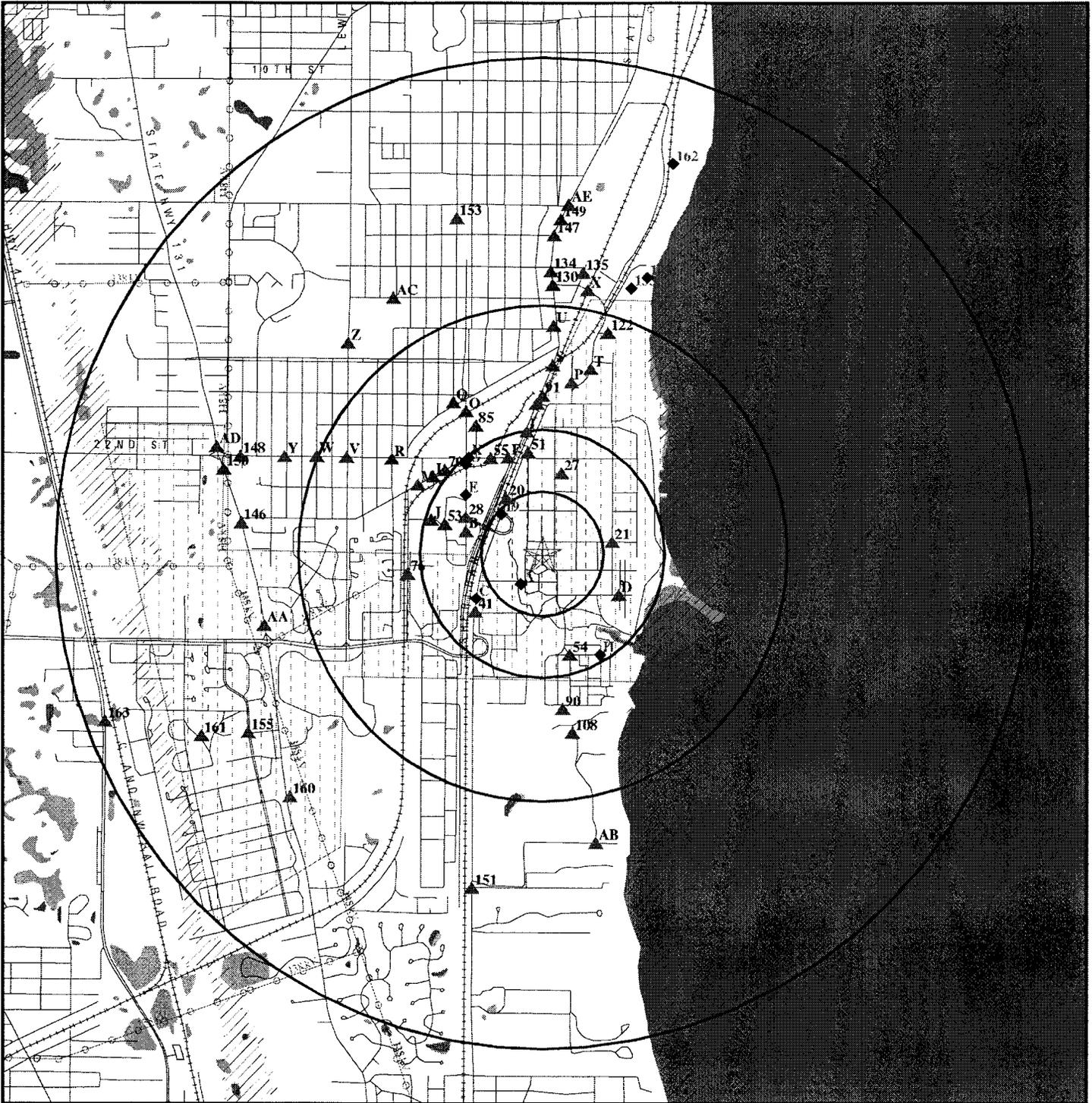
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NORTH CHICAGO COMMUNITY DEVELO	1801-1811 SHERIDAN ROAD	1/2 - 1 N	U120	119
1500 SHERIDAN ROAD	1500 SHERIDAN ROAD	1 - 2 N	147	144

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
GREAT LAKES NAVAL TRAINING CENTER	FTTS INSP
GREAT LAKES NAVAL TRAINING CENTER	FTTS INSP
GREAT LAKES NAVAL TRAINING CENTER	FTTS INSP
TRIPLE XXX PACKAGING	FTTS INSP
ABBOTT LABS	FTTS INSP
ABBOTT LABORATORIES	FTTS INSP
WESTVACO ENVELOPE DIVISION	FTTS INSP
COMMONWEALTH EDISON	FINDS, FTTS INSP
NO NAME	CERC-NFRAP
ABBOTT LAB SKOKIE WAREHOUSE	CERC-NFRAP
CARRIAGE CLEANERS	DRYCLEANERS
U.S. NAVAL TRAINING CTR.	LUST
GREAT LAKES NAVAL TRAINING CENTER	LUST
U.S. NAVY	LUST
DEPT. OF THE NAVY	LUST
NAVAL TRAINING CENTER	LUST
DEPT. OF THE NAVY	LUST
NORTHSHORE WASTE	LUST
U.S. NAVY	LUST
TRI-X	UST
LAWRENCE FAMILY TRUST	UST
WATER PLANT	UST
MASONRY BY FERNANDO	UST
MASONRY BY FERNANDO	UST
ROSS LABS STURGIS PLANT	UST
FIRESTONE STORE # 3479	RCRA-SQG, FINDS
SPARKLING SPRING WATER	RCRA-SQG, FINDS
HEXAGON PKG CORP	RCRA-SQG, FINDS
CITY OF NORTH CHICAGO	RCRA-SQG, FINDS
HOSPIRA	RCRA-LQG
OHIO ST NEAR BLDG 1127 AT THE TRACEN GREAT LAKES	ERNS
GREAT LAKES NAVAL TRAINING STATION	FINDS
NAVAL STATION GREAT LAKES	FINDS
US NAVAL TRAINING 2	FINDS
US NAVAL TRAINING 1	FINDS
TANGLY OAKS EDUCATIONAL CTR	FINDS
NAVY, DEPARTMENT OF THE	MLTS
14TH STREET LAUNDROMAT	SRP
ABBOTT LABORATORIES, CAPD, D-928	SSTS
TRIPLE-X PACKAGING CO.	SSTS
ABBOTT LABORATORIES, CAPD, D-928	SSTS

OVERVIEW MAP - 1426914.2s - MACTEC, Inc.



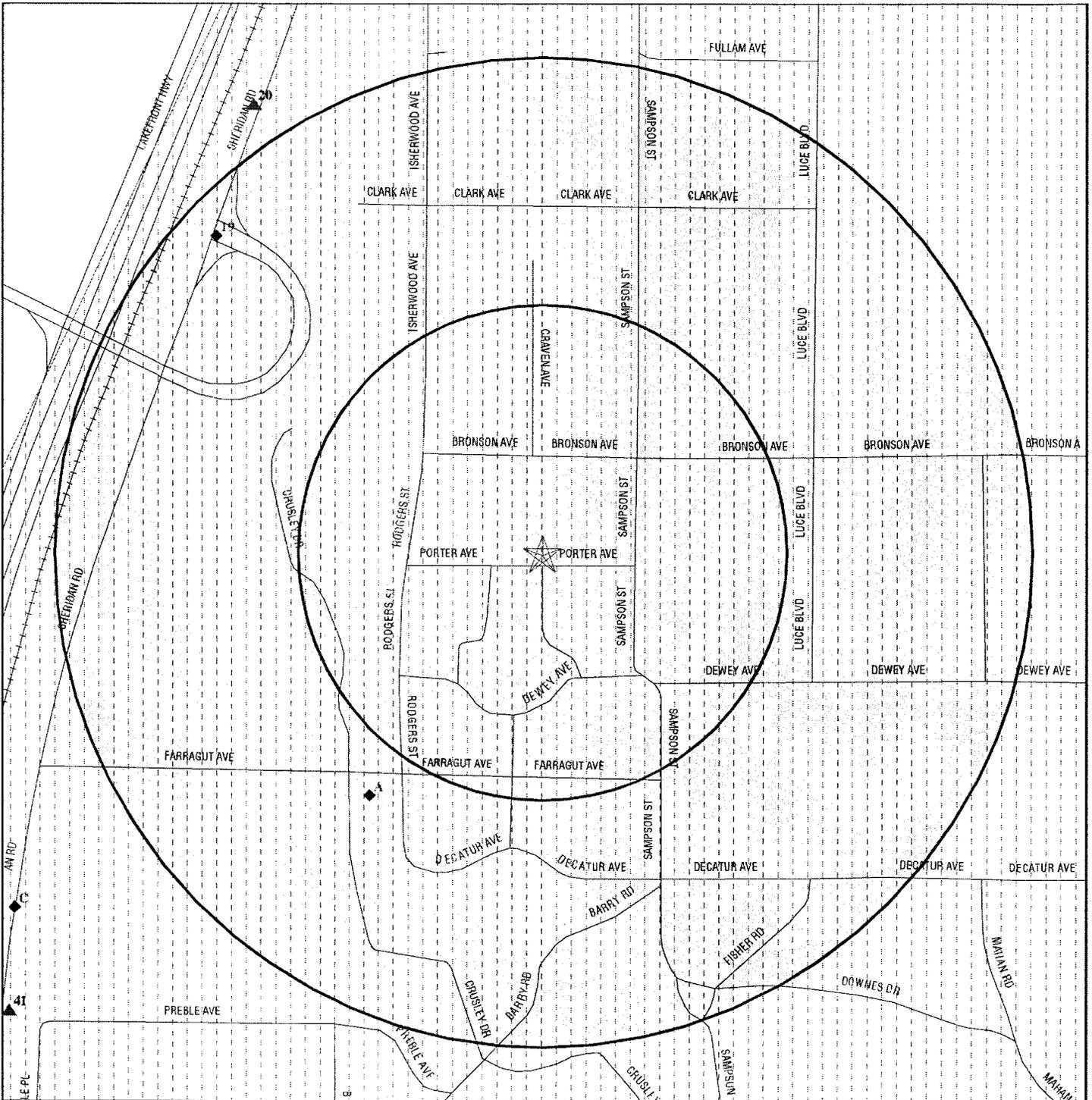
- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- ▨ National Priority List Sites
- ▩ Landfill Sites
- ▧ Dept. Defense Sites
- ▨ Indian Reservations BIA
- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- ▨ Federal Wetlands



TARGET PROPERTY: Great Lakes Naval Training Ctr
ADDRESS: Sheridan Road and Route 137
CITY/STATE/ZIP: Great Lakes IL 60088
LAT/LONG: 42.3137 / 87.8405

CUSTOMER: MACTEC, Inc.
CONTACT: Benita Theleen
INQUIRY #: 1426914.2s
DATE: May 23, 2005 9:34 am

DETAIL MAP - 1426914.2s - MACTEC, Inc.



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- Sensitive Receptors
- ▨ National Priority List Sites
- ▨ Landfill Sites
- ▨ Dept. Defense Sites

- ▨ Indian Reservations BIA
- ▨ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone



<p>TARGET PROPERTY: Great Lakes Naval Training Ctr ADDRESS: Sheridan Road and Route 137 CITY/STATE/ZIP: Great Lakes IL 60088 LAT/LONG: 42.3137 / 87.8405</p>	<p>CUSTOMER: MACTEC, Inc. CONTACT: Benita Theleen INQUIRY #: 1426914.2s DATE: May 23, 2005 9:34 am</p>
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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL ASTM STANDARD</u>								
NPL		2.000	0	0	0	0	0	0
Proposed NPL		2.000	0	0	0	0	0	0
CERCLIS		1.500	0	0	0	2	0	2
CERC-NFRAP		1.250	0	0	1	0	0	1
CORRACTS		2.000	0	0	0	2	3	5
RCRA TSD		1.500	0	0	0	2	1	3
RCRA Lg. Quan. Gen.		1.250	0	0	3	5	0	8
RCRA Sm. Quan. Gen.		1.250	0	1	5	10	7	23
ERNS		1.000	0	2	8	2	NR	12
<u>STATE ASTM STANDARD</u>								
State Haz. Waste		2.000	0	0	0	1	1	2
State Landfill		1.500	0	0	0	0	0	0
LUST		1.500	0	16	6	7	21	50
UST		1.250	0	0	9	13	9	31
SRP		1.500	0	0	0	1	1	2
IMPDMENT		1.500	0	0	1	0	1	2
CAT		2.000	0	0	0	0	0	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>								
CONSENT		2.000	0	0	0	0	0	0
ROD		2.000	0	0	0	0	0	0
Delisted NPL		2.000	0	0	0	0	0	0
FINDS		1.000	0	1	22	22	NR	45
HMIRS		1.000	0	0	0	0	NR	0
MLTS		1.000	0	0	2	0	NR	2
MINES		1.250	0	0	0	0	0	0
NPL Liens		1.000	0	0	0	0	NR	0
PADS		1.000	0	0	0	0	NR	0
DOD		2.000	1	0	0	0	0	1
INDIAN RESERV		2.000	0	0	0	0	0	0
UMTRA		1.500	0	0	0	0	0	0
US ENG CONTROLS		1.500	0	0	0	0	1	1
ODI		1.500	0	0	0	0	0	0
FUDS		2.000	0	0	0	0	0	0
RAATS		1.000	0	0	0	0	NR	0
TRIS		1.000	0	0	3	0	NR	3
TSCA		1.000	0	0	0	0	NR	0
SSTS		1.000	0	0	0	4	NR	4
FTTS		1.000	0	0	1	3	NR	4
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>								
IL NIPC		1.500	0	0	0	1	1	2

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
DRYCLEANERS		1.250	0	0	0	0	1	1
ENG CONTROLS		1.500	0	0	0	0	0	0
<u>EDR PROPRIETARY HISTORICAL DATABASES</u>								
Coal Gas		2.000	0	0	0	0	0	0
<u>BROWNFIELDS DATABASES</u>								
US BROWNFIELDS		1.500	0	0	0	0	0	0
US INST CONTROL		1.500	0	0	0	0	1	1
Inst Control		1.500	0	0	0	0	0	0
BROWNFIELDS		1.500	0	0	0	1	0	1
SRP		1.500	0	0	0	1	1	2

NOTES:

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

APPENDIX D

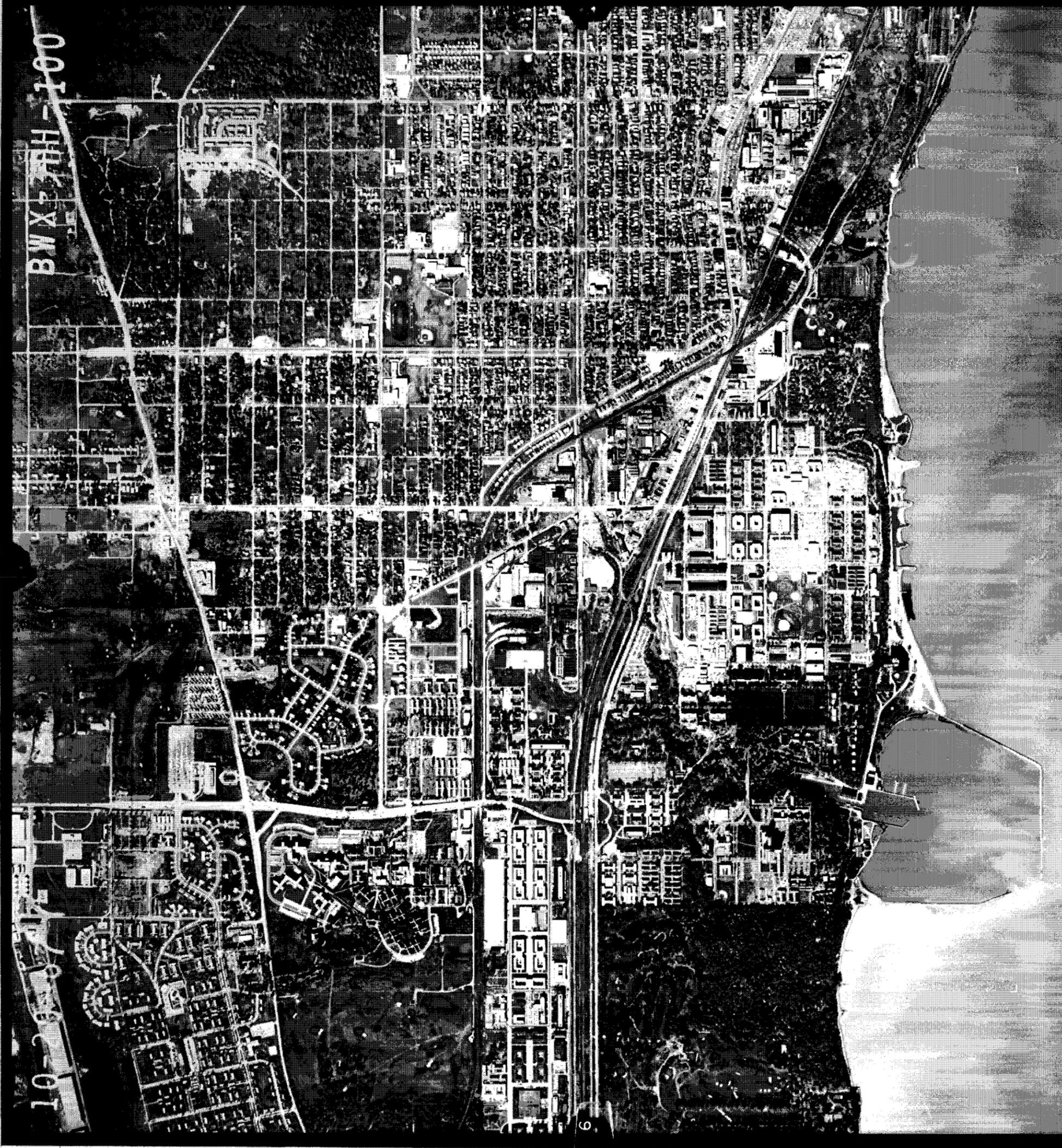
Historical Aerial Photographs

1939









BWX-78H-100

10

6



1974

1974



1993



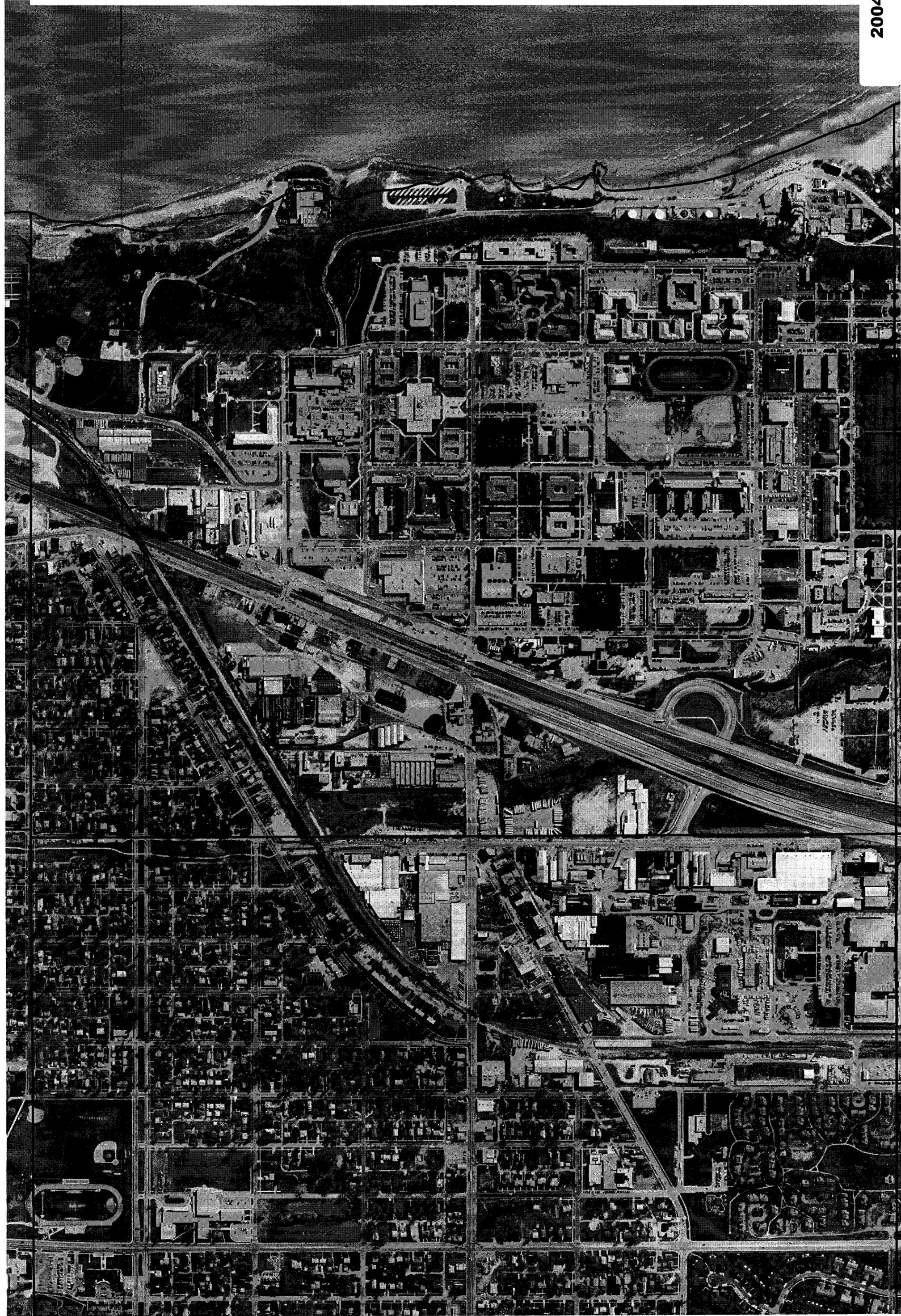


1993









APPENDIX E

Sanborn Fire Insurance Map Documentation



"Linking Technology with Tradition"®

Sanborn® Map Report

Ship To: Benita Theleen

MACTEC, Inc.

5440 North Cumberland

Chicago, IL 60656

Order Date: 5/23/2005 **Completion Date:** 5/23/2005

Inquiry #: 1426898.2

P.O. #: NA

Site Name: Forestal, Halsey, Nimitz

Address: Green Bay Road / Buckley Road

City/State: Great Lakes, IL 60088

Cross Streets:

Customer Project: 3205050441.13

1471565SIL

773-693-6030

This document reports that the largest and most complete collection of Sanborn fire insurance maps has been reviewed based on client supplied information, and fire insurance maps depicting the target property at the specified address were not identified.

NO COVERAGE

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

APPENDIX F

Freedom of Information Act Requests



June 3, 2005

Illinois Department of Natural Resources
Division of Natural Resource Review & Coordination
524 South Second Street
Springfield, Illinois 62701-1787

**RE: Freedom of Information Request for
Great Lakes Naval Training Center
Sections 4, 5, 8, and 9; Township 44N, Range 12E
Great Lakes, Illinois 60088**

To Whom It May Concern:

MACTEC Engineering and Consulting, Inc. (MACTEC) requests a search of the Natural Heritage Database for the presence of endangered and threatened species, Illinois Natural Area Inventory sites for the above referenced property and immediately surrounding area. The site is located in Sections 4, 5, 8, and 9; Township 44 North; Range 12 East in Lake County, Great Lakes, Illinois.

Thank you for your assistance in this matter.

Sincerely,

MACTEC Engineering and Consulting, Inc.

A handwritten signature in cursive script, appearing to read "Benita H. Theleen".

Benita H. Theleen
Senior Project Scientist
MACTEC Engineering and Consulting, Inc.
5440 North Cumberland Avenue, Suite 250
Chicago, Illinois 60656
Phone: 773-693-6030
Fax: 773-693-6039



MACTEC

RECEIVED
JUL 18 2005

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MAY 27 2005

May 19, 2005

Ms. Denise Carty
Freedom of Information Center
Office of the Illinois State Fire Marshal
1035 Stevenson Road
Springfield, Illinois 62703-4259

FOIA
CR# 2196
500

**RE: Freedom of Information Request for
Great Lakes Naval Training Center
Sections 4, 5, 8, and 9; Township 44N, Range 12E
Great Lakes, Illinois**

2035687

Dear Ms. Carty:

MACTEC Engineering and Consulting, Inc. (MACTEC) requests information regarding the above referenced site. If the Office of the State Fire Marshal has documents pertaining to this property, please provide the information to MACTEC.

Enclose please find a check for \$5.00 to cover facility fees.

Thank you for your assistance in this matter.

Sincerely,

MACTEC Engineering and Consulting, Inc.

Benita H. Theleen
Senior Project Scientist
MACTEC Engineering and Consulting, Inc.
5440 North Cumberland Avenue, Suite 250
Chicago, Illinois 60656

IL	Notification for Underground Storage Tanks	OFFICE USE ONLY
<p>A separate form must be used for each site.</p> <ul style="list-style-type: none"> If you have more than five tanks, photocopy pages 1-5 and attach to this notification form. Please type, or print in ink; the signature under "certification" (section IX) must be signed in Ink. 		ID NUMBER <u>2035687</u>
		DATE RECEIVED RECEIVED
		MAY 28 1997 <small>DIV. OF PETROLEUM &</small>

Facility I.D. # (if known) _____ Owner I.D. # (if known) _____

TYPE OF NOTIFICATION

New Facility
 Amended (Changes/Corrections/Additional Tanks)
Mark all that apply:

____ Owner Address Change (this facility only)
____ Tanks Relined (Permit # _____)

____ Owner Address Change (all facilities owned)
____ Tanks Installed (Permit # _____)

____ New Owner
____ Tanks Upgraded/Repaired (Permit # _____)

____ Tank(s) Removed (Permit # _____)
____ Abandonment Notice (Permit # _____)

____ Other _____

I. Ownership of Tank(s)	II. Location of Tank(s) <small>(if same as Section I, Mark box) <input type="checkbox"/></small>
<u>U.S. NAVY</u>	
<u>Engineering and Field Activity Midwest</u> Owner Name (Corp., Individual., Public Agency or other Entity)	<u>NAVAL Training Center</u> Facility Name or Company Site Identifier, as applicable
<u>Bldg. 1A, 2703 SHERIDAN RD. STE. 200</u> Mailing Address	Street Address or State Road, as applicable (exact address)
<u>GREAT LAKES</u> <u>IL</u> <u>60088-5600</u> City State Zip	<u>GREAT LAKES, IL 60088</u> City State Zip
<u>LAKE</u> County	<u>LAKE</u> County
<u>Sally Merritt 847-688-2600 X121</u> Contact Name (Area Code) Phone	<u>CARLO LUCIANO 847-698-5996</u> Contact Name (Area Code) Phone

III. TYPE OF OWNERSHIP (mark all that apply)

Current Owner of Tanks
 Ownership Uncertain _____
Date Purchased 6/1/70

Former Owner
 Other _____

IV. TYPE OF FACILITY

Type of Facility: (Circle correct code)

A. Service Station	G. Industrial/Manufacturing	M. City/Town	S. Port District
B. Bulk Plant	H. Private Institution	N. County	T. Utility District
C. Petroleum Distributor	I. Residence (Non-Farm)	O. State	U. Fire Dept.
D. Convenience Store	J. Farm	<input checked="" type="checkbox"/> P. Federal (Military)	V. Other Special
E. Auto Dealer	K. Airport	Q. Federal (Non-Military)	Service Districts
F. Commercial/Retail	L. Marina	R. School District	W. Other _____

(Please Specify)

V. Description of Underground Storage Tanks (Complete entire column for each tank)

Tank Identification Number	Tank No. <u>1</u>	Tank No. <u> </u>			
1. Status of Tanks					
Currently in use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporarily out of use (Section 2 must be completed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permanently out of use (Section 2 must be completed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Removed (Section 3 must be completed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abandoned in place (Section 4 must be completed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Tanks Permanently & Temporarily Out of Use					
Estimated date last used	<u>9/189</u>	<u> / / </u>			
3. Tanks Removed					
Date tank(s) removed	<u> / / </u>	<u> / / </u>	<u> / / </u>	<u> / / </u>	<u> / / </u>
Estimated date last used	<u> / / </u>	<u> / / </u>	<u> / / </u>	<u> / / </u>	<u> / / </u>
4. Abandoned in Place					
Date tanks filled	<u> / / </u>	<u> / / </u>	<u> / / </u>	<u> / / </u>	<u> / / </u>
Tank filled with:					
Inert materials (sand, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
5. Age of Tank					
Date tank installed	<u>6/170</u>	<u> / / </u>			
Date product placed in tank	<u>6/170</u>	<u> / / </u>			
6. Estimated Total Capacity (gallons)	<u>2000</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
7. Substances Currently or Last Stored:					
Petroleum					
Diesel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Used oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (Please specify)	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Petroleum Use (if applicable):					
Heating oil (consumptive use on premises)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Back-up generator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Hazardous Substance:					
Name of principal CERCLA substance	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Chemical Abstract Service (CAS No.)	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

VI. Description of Underground Storage Tanks (Complete entire column for each tank)

Tank Identification Number	Tank No. <u> 1 </u>	Tank No. <u> </u>			
<p>1. Material of Construction (mark all that apply)</p> <p>Asphalt coated or bare steel <input checked="" type="checkbox"/></p> <p>Cathodically protected steel <input type="checkbox"/></p> <p>Dielectric coated steel <input type="checkbox"/></p> <p>Composite (steel with fiberglass) <input type="checkbox"/></p> <p>Fiberglass reinforced plastic <input type="checkbox"/></p> <p>Lined interior <input type="checkbox"/></p> <p>Double-walled <input type="checkbox"/></p> <p>Secondary containment <input type="checkbox"/></p> <p>Steel STI-P3 <input type="checkbox"/></p> <p>Other (please specify) _____</p>					
<p>2. Piping Materials (mark all that apply)</p> <p>Bare steel <input checked="" type="checkbox"/></p> <p>Galvanized steel <input type="checkbox"/></p> <p>Fiberglass reinforced plastic <input type="checkbox"/></p> <p>Cathodically protected <input type="checkbox"/></p> <p>Double-walled <input type="checkbox"/></p> <p>Secondary containment <input type="checkbox"/></p> <p>Dielectric coating <input type="checkbox"/></p> <p>Other (please specify) _____</p>					
<p>3. Piping Type (mark all that apply)</p> <p>European suction <input type="checkbox"/></p> <p>American suction <input checked="" type="checkbox"/></p> <p>Pressure <input type="checkbox"/></p> <p>Gravity feed <input type="checkbox"/></p> <p>Other (please specify) _____</p>					

Tank Identification Number	Tank No. ___		Tank No. ___		Tank No. ___		Tank No. ___		Tank No. ___	
4. Release Detection (Mark all that apply) <ul style="list-style-type: none"> Manual tank gauging Inventory controls Automatic tank gauging Vapor monitoring Groundwater monitoring Interstitial monitoring double-walled tank/piping Interstitial monitoring /secondary containment Tank tightness testing Automatic line leak detector Line tightness testing Automatic shut-off device Continuous alarm system No requirements (european suction) Other (please specify) 	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
5. Corrosion Protection (mark all that apply) <ul style="list-style-type: none"> Cathodic protection Impressed current Secondary containment Exterior coating Fiberglass reinforced plastic Double-walled Interior lining Other (please specify) 	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Spill & Overfill Prevention (Mark all that apply) <ul style="list-style-type: none"> Overfill device Automatic shut-off Overfill Alarm Ball float valve Spill containment device Other (Please specify) 		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>



OFFICE OF THE ILLINOIS STATE FIRE MARSHAL
Division of Petroleum and Chemical Safety

1035 Stevenson Drive
Springfield, Illinois 62703-4259
(217)785-1020 or (217)785-5878

RECEIVED
MAY 06 1997
DIV. OF PETROLEUM &
CHEMICAL SAFETY

FOR OFFICE USE ONLY

Facility # 2035687
Permit # 1251-97 REM

APPLICATION for Permit for **REMOVAL** of Underground Storage Tanks. (Please type or print clearly)

(1) **OWNER OF TANKS** - Corporation, partnership, or other business entity: (Must be mailing address)

Engineering and field activity Midwest
Name
BLDg. 1A, 2703 Sheridan Rd., Ste. 200
Street Address
Great Lakes IL 60088-5600
City State Zip
SALLY MERRITT 847 688-2600 X121
Contact Person Phone

(2) **FACILITY** - Facility ID # _____
(Name and address where tanks are located:)

NAVAL Training Center
Name
Forrestal fire STATION Bld 2912
Street Address
GREAT LAKES IL 60088 LAKE
City State Zip County
CARLO LUCIANO 847 688-5996
Contact Person Phone

(3) **TANK(S)**: Fill in the appropriate blanks for the tank(s) to be removed. Attach additional sheet(s) if more space is needed.

# of Tanks	Capacity in gallons	Product to be stored	Date tank last used	# of Tanks	Capacity in gallons	Product to be stored	Date tank last used
1	2000	HTg. oil	1989				

(4) **CONTAMINATED SITE** (complete this section for sites where a release has been reported). Reminder: Releases or suspected releases must be reported to IEMA at (800)782-7860 within 24 hours:

IEMA Incident # _____

(5) **CONTRACTOR**: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that all information submitted is true, accurate and complete.

Eape Environmental Management Inc.
Company Name

91 Noll Street
Address

Waukegan IL 60085
City State Zip

847-336-4341 847-336-4971
Telephone # Fax #

IL 2104 4-18-98
Contractor License # Expiration Date

Bob Gieser CONTRACT MANAGER
Name of Authorized Representative Title or Position

Bob Gieser 5-1-97
Signature Date

FOR OFFICE USE ONLY

After receiving an approved permit, the Contractor the permit was issued to or an employee of that contractor (this does not include a subcontractor) shall establish a date certain to perform the UST activity by contacting the Office of the State Fire Marshal, Division of Petroleum and Chemical Safety, by telephone at the Springfield office at (217)785-1020 or (217)785-5878 between 8:30 a.m. and 12:00 p.m., at which time a mutually agreed upon date and time for the UST activity shall be scheduled. **THIS PERMIT IS VALID FOR SIX MONTHS FROM THE APPROVAL DATE.**

Permission to remove underground storage tank(s) is hereby granted. Such removal shall not commence until 6-27-97.

A seventy-two hour (3 working day) notice to this office is required to confirm final date of removal for our Inspector to be on site.

6-2-97 W. Dale Tanke
Approval Date Approved

12-2-97
Permit Expires



LOG OF UNDERGROUND STORAGE TANK REMOVAL

OWNER	FACILITY
NAME: <u>Naval Training Center</u> <u>ENGINEERING + Field Activity Midwest</u>	NAME: <u>Great Lakes Naval Training Center</u> <u>FORRESTAL Fire Station</u>
ADDRESS: <u>2703 SHERIDAN Rd. Bldg 1-A STE #120</u>	ADDRESS: <u>Building 2912 (MERIDIAN + Wyoming)</u> <u>(UST ID #2912 - D)</u>
CITY: <u>GREAT LAKES</u>	CITY: <u>GREAT LAKES</u>
STATE: <u>IL</u> ZIP: <u>60088-5600</u>	COUNTY: <u>LAKES</u> ZIP: <u>60088-5600</u>
PHONE: <u>847/688-2600 x121 (Sally Merritt)</u>	PHONE: <u>847/688-5996 (Carlo Luciano)</u>

STATUS: MINOR SIGNIFICANT _____ MAJOR _____ APPEARS TO BE NO RELEASE _____

AREA OF CONTAMINATION: TANK FLOOR _____ WALLS _____ PIPE TRENCH _____ OTHER Backfill

GROUND WATER CONTAMINATED: YES _____ NO ANY WATER WELLS IN AREA? YES _____ NO

NUMBER OF TANKS REMOVED: (1)

SIZE OF EACH TANK REMOVED: 2 ~~M~~ _____ M _____ M _____ M _____ M _____ M _____ M _____ M

PRODUCT STORED: HEATING OIL

DOES THIS TANK APPEAR TO HAVE LEAKED? (Y OR N) Y

NUMBER OF TANKS TO REMAIN IN GROUND: DONE KNOWN at this time at this physical location
Multiple sites at Naval Training Center

SIZE OF EACH TANK: ~~_____ M _____ M~~

PRODUCT STORED: ~~_____~~

COMMENTS: Multiple corrosion holes observed in UST. Pipe removed.
Petroleum odor + petroleum discoloration observed in backfill material.

No E+D application given - Federal facility

REMOVAL CONTRACTOR: UST pressure washed before removal, cut open + cleaned out rest of the way by CAPE/Ecology

NAME: CAPE ENVIRONMENTAL MANAGEMENT, Inc
d/b/a Ecology Services

ADDRESS: 91 NOLL STREET

CITY: Waukegan STATE: IL

PHONE: 847/336-4341 ZIP: 60085

REGISTRATION #: IL 2104

Steve C. Dwyer
 STORAGE TANK SAFETY SPECIALIST

IL Notification for Underground Storage Tanks **OFFICE USE ONLY**

- A separate form must be used for each site.
- If you have more than five tanks, photocopy pages 1-5 and attach to this notification form.
- Please type, or print in ink; the signature under "certification" (section IX) must be signed in ink.

ID NUMBER 2035687
 DATE RECEIVED
RECEIVED
AUG 19 1997

Facility I.D. # (if known) _____ Owner I.D. # (if known) _____ DIV. OF PETROLEUM & CHEMICAL SAFETY

TYPE OF NOTIFICATION

- New Facility Amended (Changes/Corrections/Additional Tanks) Mark all that apply:
- _____ Owner Address Change (this facility only) _____ Tanks Relined (Permit # _____)
- _____ Owner Address Change (all facilities owned) _____ Tanks Installed (Permit # _____)
- _____ New Owner _____ Tanks Upgraded/Repaired (Permit # _____)
- _____ Tank(s) Removed (Permit # 1251-97) _____ Abandonment Notice (Permit # _____)
- _____ Other _____

I. Ownership of Tank(s) **II. Location of Tank(s)**
(if same as Section I, Mark box)

	Naval Training Center
Owner Name (Corp., Individual., Public Agency or other Entity) Naval Training Center	Facility Name or Company Site Identifier, as applicable Forrestal Fire Station, Bldg.2912
Mailing Address 2703 Sheridan Rd., Bldg.1A, Suite120	Street Address or State Road, as applicable (exact address) 2912 Meridian St.
City State Zip Great Lakes IL 60088	City State Zip Great Lakes IL 60088
County Lake	County Lake
Contact Name (Area Code) Phone Carlo Luciano (847)688-5999 X-50	Contact Name (Area Code) Phone

III. TYPE OF OWNERSHIP (mark all that apply)

- Current Owner of Tanks Ownership Uncertain _____
- Date Purchased Unknown/
- Former Owner Other _____

IV. TYPE OF FACILITY

- Type of Facility: (Circle correct code)
- | | | | |
|--------------------------|-----------------------------|---------------------------|---------------------|
| A. Service Station | G. Industrial/Manufacturing | M. City/Town | S. Port District |
| B. Bulk Plant | H. Private Institution | N. County | T. Utility District |
| C. Petroleum Distributor | I. Residence (Non-Farm) | O. State | U. Fire Dept. |
| D. Convenience Store | J. Farm | P. Federal (Military) | V. Other Special |
| E. Auto Dealer | K. Airport | Q. Federal (Non-Military) | Service Districts |
| F. Commercial/Retail | L. Marina | R. School District | W. Other _____ |
- (Please Specify)

V. Description of Underground Storage Tanks (Complete entire column for each tank)

Tank Identification Number	Tank No. <u>2912A</u>	Tank No. <u> </u>			
1. Status of Tanks					
Currently in use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporarily out of use (Section 2 must be completed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permanently out of use (Section 2 must be completed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Removed (Section 3 must be completed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abandoned in place (Section 4 must be completed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Tanks Permanently & Temporarily Out of Use					
Estimated date last used	<u> / / </u>	<u> / / </u>	<u> / / </u>	<u> / / </u>	<u> / / </u>
3. Tanks Removed					
Date tank(s) removed	<u>7/28/97</u>	<u> / / </u>			
Estimated date last used	<u> / /89</u>	<u> / / </u>			
4. Abandoned in Place					
Date tanks filled	<u> / / </u>	<u> / / </u>	<u> / / </u>	<u> / / </u>	<u> / / </u>
Tank filled with:					
Inert materials (sand, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
5. Age of Tank					
Date tank installed	<u> / / </u>	<u> / / </u>	<u> / / </u>	<u> / / </u>	<u> / / </u>
Date product placed in tank	<u> / / </u>	<u> / / </u>	<u> / / </u>	<u> / / </u>	<u> / / </u>
6. Estimated Total Capacity (gallons)	<u>2,000</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
7. Substances Currently or Last Stored:					
Petroleum					
Diesel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Used oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (Please specify)	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Petroleum Use (if applicable):					
Heating oil (consumptive use on premises)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Back-up generator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Hazardous Substance:					
Name of principal CERCLA substance	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Chemical Abstract Service (CAS No)	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

VI. Description of Underground Storage Tanks (Complete entire column for each tank)

Tank Identification Number	Tank No. <u>2912A</u>	Tank No. <u> </u>			
<p>1. Material of Construction (mark all that apply)</p> <p>Asphalt coated or bare steel <input checked="" type="checkbox"/></p> <p>Cathodically protected steel <input type="checkbox"/></p> <p>Dielectric coated steel <input type="checkbox"/></p> <p>Composite (steel with fiberglass) <input type="checkbox"/></p> <p>Fiberglass reinforced plastic <input type="checkbox"/></p> <p>Lined interior <input type="checkbox"/></p> <p>Double-walled <input type="checkbox"/></p> <p>Secondary containment <input type="checkbox"/></p> <p>Steel STI-P3 <input type="checkbox"/></p> <p>Other (please specify) _____</p>					
<p>2. Piping Materials (mark all that apply)</p> <p>Bare steel <input checked="" type="checkbox"/></p> <p>Galvanized steel <input type="checkbox"/></p> <p>Fiberglass reinforced plastic <input type="checkbox"/></p> <p>Cathodically protected <input type="checkbox"/></p> <p>Double-walled <input type="checkbox"/></p> <p>Secondary containment <input type="checkbox"/></p> <p>Dielectric coating <input type="checkbox"/></p> <p>Other (please specify) _____</p>					
<p>3. Piping Type (mark all that apply)</p> <p>European suction <input type="checkbox"/></p> <p>American suction <input type="checkbox"/></p> <p>Pressure <input type="checkbox"/></p> <p>Gravity feed <input type="checkbox"/></p> <p>Other (please specify) <u>Vent Line</u></p>					

Tank Identification Number	Tank No. <u>2912A</u>	Tank No. <u> </u>								
4. Release Detection (Mark all that apply)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Manual tank gauging	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Inventory controls	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Automatic tank gauging	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Vapor monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Groundwater monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interstitial monitoring double-walled tank/piping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interstitial monitoring /secondary containment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tank tightness testing	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Automatic line leak detector		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Line tightness testing		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Automatic shut-off device		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Continuous alarm system		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
No requirements (european suction)		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Other (please specify)	_____		_____		_____		_____		_____	
5. Corrosion Protection (mark all that apply)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Cathodic protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impressed current	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secondary containment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exterior coating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass reinforced plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Double-walled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interior lining	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Other (please specify)	None		_____		_____		_____		_____	
6. Spill & Overfill Prevention (Mark all that apply)										
Overfill device	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Automatic shut-off	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Overfill Alarm	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Ball float valve	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Spill containment device	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Other (Please specify)	None		_____		_____		_____		_____	



Illinois Emergency Management Agency

FHA NO. 2111821114 2 23568 08 01701

#2-023811 JMC

Incident Number 9 7 1 3 6 3

FIELD REPORT

Notify: ILLINOIS EMERGENCY MANAGEMENT AGENCY
1 - 800 / 782 - 7860 or 217 / 782 - 7860

Date: 07 / 28 / 97
Time: 1330
Received by: JMC

1. Caller: CARLO LUCIANO
2. Call back phone#: 847/688-6375
3. Caller represents: GREAT LAKES NAVAL TRAINING CTR
4. Type of incident: Fire Leak Explosion Water Involvement Gas or Vapor cloud Other _____
5. Incident Location:
Street: 2912 MERIDIAN ROAD
City: GREAT LAKES In Near
County: LAKE 60088
Milepost: _____ RR River Highway
Sec. _____ Twp. _____ Range _____
6. Area Involved: Highway Rail Fixed Facility
 Waterway Air Other BEHIND BUILDING
7. Material (s) Involved: DIESEL FUEL

- Gas Liquid Semi-Solid Solid
 Pesticide Radioactive
CAS #: _____
UN/NA #: _____
Is this a 302 (a) Extremely Hazardous Substance?
 Yes No Unknown
Is this a RCRA Hazardous Waste?
 Yes No Unknown
If Yes, is this a RCRA regulated facility?
 Yes No

8. Container: Truck RR car Drum
 Aboveground tank Pipeline
 Underground tank Other _____
container size: 2000 GALS
9. Amount released: MINOR / UNKNOWN
Rate of release: _____ / min.
10. Cause of release: HOLES IN TANK

11. Estimated spill extent: 120 CUBIC YARDS
 square feet square yards
12. Occurred Date: ___/___/___ Time: _____
 Discovered Date: 07 / 28 / 97 Time: 0930

13. Emergency units contacted
 Fire _____
 Sheriff _____
 Police _____
 ESDA _____
 Other _____

14. On Scene Contact: #1
On Scene Phone#: #2
15. No. injured: -0- Hazardous Non-hazardous
Where taken: _____
16. Public health risks and/or precautions taken, including # evacuated: _____

NONE

17. Assistance needed from State Agencies:

NONE
18. Containment/cleanup actions and plans:
ECOLOGY SERVICES REMOVED TANKS & SOIL

19. Weather: sunny overcast night
 ptly. cldy. rain snow
Temp. _____ F wind dir. _____ speed _____ mph.
20. Responsible Party: GREAT LAKES NAVAL TRAINING CENTER
Contact person: #1
Phone #: #2
Mailing address: NAVAL TRAINING CENTER ENVIRONMENTAL DEPT, 2703 SHERIDAN ROAD, SUITE 210
GREAT LAKES, IL 60088

Notifications: FAXED TO EPA, SFM, IDPH, REG. 4

- On scene
 Fire _____
 Sheriff _____
 Police _____
 ESDA _____
 Other OSFM/SUE DWYER

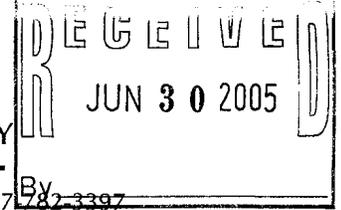
Dwyer

RECEIVED
AUG 05 1997
DIV. OF PETROLEUM & CHEMICAL SAFETY



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276, 217-782-3397
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601, 312-814-6026



ROD R. BLAGOJEVICH, GOVERNOR

RENEE CIPRIANO, DIRECTOR

June 28, 2005

Phone: 217/782-9878

Fax: 217/782-9290

Email: foia@epa.state.il.us

MACTEC Engineering & Consulting Inc

Attn: Benita H. Theleen

5440 N Cumberland Ave., Ste. 250

Chicago, IL 60656 -

Re: Freedom of Information Act Request

Dear Sir/Madam:

The FOIA Sector, Bureau of Land, has processed your request dated May 19, 2005 and received on May 19, 2005 for public records pursuant to the Freedom of Information Act (FOIA) (5 ILCS 140/1 et. seq.). The total volume of records responsive to your request is 76.57 inches of paper records and 5 pages of microfiche. This represents an estimated 15314 pages of paper (assuming one inch of paper equates to 200 pages).

This information is available to you, or your representative (see attached listing of local copy contractors) at the Illinois Environmental Protection Agency's headquarters at 1021 North Grand Avenue East, in Springfield. A detailed listing of site files requested and the amount of information present for each is provided below.

BOL Site ID	Site Name	Site Address	Site City	Inches of Paper	Pages of Microfiche
0971255048	GREAT LAKES NAVAL TRN C CERCLA	201 DECATUR AVE	GREAT LAKES	76.25	1
0971255114	GREAT LAKES NTC PARCEL F	1620 BLOCK FOSS PARK AVE	NORTH CHICAGO	0.08	1
0971255113	GREAT LAKES NTC PARCEL M	SPAULDING & 24TH ST	NORTH CHICAGO	0.08	1
0971255115	GREAT LAKES NTC PARCEL E5	MAIN ST & EVAN AVE	NORTH CHICAGO	0.08	1
0971255112	GREAT LAKES NTC PARCEL S	24TH & LEWIS AVE	NORTH CHICAGO	0.08	1

ID: 36090

Please contact me by July 28, 2005, at (217) 782-9878 to arrange an appointment to inspect the files. Appointments are scheduled during normal business hours, which are 8:30 a.m. to 5:00 p.m. Monday through Friday, exclusive of State holidays.

Sincerely,

A handwritten signature in black ink that reads "Jan Ogden". The signature is written in a cursive style with a large, looping initial "J".

Jan Ogden, FOIA Coordinator
Records Management Unit
Bureau of Land



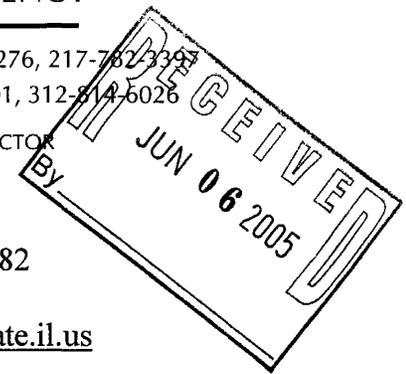
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276, 217-782-3397
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601, 312-814-6028

ROD R. BLAGOJEVICH, GOVERNOR

RENEE CIPRIANO, DIRECTOR

6/1/2005



Phone: 217/782-8482

Fax: 217/782-9891

Email: foia@epa.state.il.us

Benita Theleen
Mactec E & C, Inc.
5440 N. Cumberland Ave., Suite 250
Chicago, IL 60656

RE: Regarding Great Lakes Naval Training Center, Great Lakes, IL and the location of community water supply wells in Lake County, Illinois. (FOIA NO: 2005-1362)

Dear Benita Theleen:

This letter responds to your written inquiry received in the Bureau of Water dated 05/19/2005 regarding the locations of community water supply wells. Please be advised that no documents pertaining to the Great Lakes Naval Training Center, Great Lakes, IL were found in the Division of Water Pollution Control. In order to search more, we will need the location of the different building sites within Great Lakes Naval Training Center.

You also requested information from Public Water Supplies pertaining to the community water supply wells in the above area of Illinois. The project area appears to be located within 2,500 feet from a community water supply well. The map depicting the well location information is not enclosed. With regard to the map determined to be security sensitive, the Illinois EPA is requiring additional information, pursuant to 2 Ill. Adm. Code 1828.303(f), to insure both the proper management and tracking of these public records and the efficient administration of the FOIA regulations. You may either withdraw your request insofar as it applies to security sensitive documents or submit the following information to the Illinois EPA.

Please send a letter on company letterhead signed by your chief executive officer or a principal, or a letter from the company or organization you are representing, authorizing you to act on their behalf, a list of employees with their email addresses, and a password to be used by Mactec E & C, Inc. If this is a Land Pollution Control project, we also need the Lust and/or LPC number.

To expedite this process, we will accept the letter by facsimile with a signed hard copy to follow. In addition, we require a photo ID to be provided prior to releasing the public documents. This written request for additional information constitutes a response to your FOIA request pursuant to Section (3)(c) of FOIA, as set forth in 2 Ill. Adm. Code 1828.501(a). In the event that you opt to pursue your request for security sensitive



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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ROD R. BLAGOJEVICH, GOVERNOR

RENEE CIPRIANO, DIRECTOR

documents, the Illinois EPA will provide a further response within 7 working days of receipt of the requested additional information from you. If you fail to provide the requisite additional information within 10 business days of the date of this letter, your FOIA request will be considered denied, pursuant to 2 Ill. Adm. Code 1828.504(b), insofar as it applies to security sensitive documents. If your request is deemed denied, you may appeal the denial to disclose the public records requested, pursuant to 2 Ill. Adm. Code 1828.505, by sending a written notice of appeal to the Director of the Illinois EPA, postmarked within thirty (30) days of the due date for the additional information. The Notice of Appeal must:

- 1) Be in writing;
- 2) Be clearly marked "APPEAL OF FOIA REQUEST DENIAL" and
- 3) Include a copy of the original request, a copy of the denial received by the requester and a statement of the reason that the request should be granted on appeal.

Within seven (7) working days of the receipt of the Notice of Appeal, the Director shall notify you, by certified mail, return-receipt requested, either that the Illinois EPA's denial has been confirmed or that the requested public records will be available at some indicated time and place. If the Director confirms the Illinois EPA's denial, you may file suit for injunctive or declaratory relief in the Circuit Court for Sangamon County or for the county in which you reside, in accordance with the procedures set forth in Section 11 of FOIA. If you have any questions concerning this matter, please contact me at the above phone number.

Sincerely,

Janet Christer
FOIA Coordinator, Bureau of Water

Cc: File

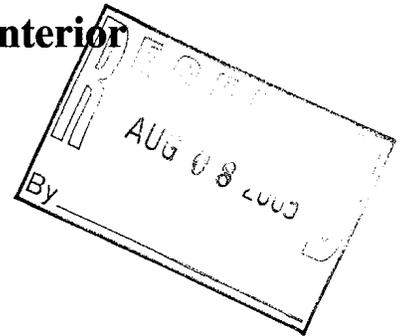
APPENDIX G

Threatened and Endangered Species



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Chicago Ecological Services Field Office
1250 South Grove Avenue, Suite 103
Barrington, Illinois 60010
Phone: (847) 381-2253 Fax: (847) 381-2285



IN REPLY REFER TO:
FWS/AES-CIFO/5-1720

August 1, 2005

Ms. Benita H. Theleen
MACTEC Engineering and Consulting, Inc.
5440 North Cumberland Avenue, Suite 250
Chicago, Illinois 60656

Dear Ms. Theleen:

This responds to your letter dated June 3, 2005 with additional information faxed on July 26, 2005 requesting information on endangered or threatened species on or near the proposed residential development at the Great Lakes Naval Training Center located at T44N, R12E, Sections 4, 5, 8, and 9 in Lake County, Illinois as depicted on the maps you enclosed.

Based on the information provided in your submittal and a review of our records, we do not believe that any federally endangered or threatened species occur in the vicinity of the site. Based on the information provided, it does not appear that the project is likely to adversely affect any federally threatened or endangered species or adversely modify critical habitat of such species. This precludes the need for consultation on this project in accordance with section 7 of the Endangered Species Act of 1973, as amended. Should project modifications or new information indicate that endangered or threatened species may be affected, then consultation with the Service should be initiated by the federal action agency.

Please note, this information is valid only for one year or until new information becomes available that indicates endangered or threatened species may be affected.

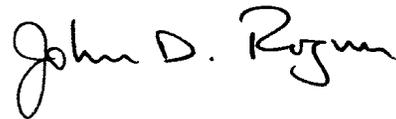
This letter only addresses federally listed species; the Illinois Department of Natural Resources should be contacted for information on State-listed species. Any impacts to wetlands or waters of the United States may require a permit from the U.S. Army Corps of Engineers. This letter does not preclude separate evaluation and comment by the U.S. Fish and Wildlife Service on wetland impacts proposed for section 404, Clean Water Act authorization.

Ms. Benita H. Theleen

2

If you have any questions, please contact Ms. Cathy Pollack at 847/381-2253 ext. 239, or Ms. Karla Kramer at 847/381-2253 ext. 230.

Sincerely,

A handwritten signature in black ink that reads "John D. Rogner". The signature is written in a cursive style with a large, looped "J" and "R".

John D. Rogner
Field Supervisor

APPENDIX H

Resumes

BENITA H. THELEEN, B.S.

AREAS OF SPECIALIZATION

Project Management, Site Investigations, Regulatory Compliance Issues, Environmental Audits, Technical Writing and Editing, Graphic Design.

EXPERIENCE

Ms. Theleen has more than 14 years of professional experience in project design and management focusing on Phase I Environmental Assessments. She has written, reviewed, and or managed more than one thousand Phase I projects. She has been involved in marketing environmental services and management responsibilities for diverse environmental projects including site assessments, environmental compliance assessments, storm water pollution prevention plans, spill prevention control and countermeasure plans, soil testing, underground storage tank removal, and consultation.

Project Scientist, Environmental Science & Engineering, Inc., Chicago, Illinois, 1993 - Present

Phase I Environmental Assessments, Project Manager--Performed multiple Phase I Environmental Site Assessments associated with property transactions for industry, law firms, financial institutions, real estate development companies, and private owners. Assessment activities included visual inspections for potential environmental liabilities such as underground storage tanks, chemical and drum storage, suspect asbestos-containing building materials, suspected water/waster contamination and hazardous materials/waste storage. Performed extensive historical/regulatory research associated with Environmental Site Assessments. Research activities have included review of Office of the State Fire Marshal (OSFM) listing of registered underground storage tanks, U.S. EPA CERCLA listing of Superfund sites, Sanborn Fire Insurance Maps, National Wetlands Inventory, chain of title search and historical aerial photographs. Prepared final reports for Environmental Site Assessments documenting findings, compliance requirements, historical and regulatory information, and conclusions and recommendations.

Phase I Environmental Assessments, Confidential National Pharmaceutical Company, Ohio and Illinois, Project Manager--Performed Phase I Environmental Site Assessments for large pharmaceutical company with intent to purchase adjacent railroad property. Extensive historical research was conducted in conjunction with these site assessments to address the unique requirements of railroad property (i.e., freight or commuter tracks; if freight, type of goods transported on tracks; staining, age and conditions of tracks; etc.

Phase I Environmental Assessment, Confidential Real Estate Investment Company, Huntley, Illinois, Project Manager--Performed Phase I Environmental Site Assessment of 2500 acre agricultural tract. Visual assessment was performed via all terrain vehicle for areas accessible by road; and aerial reconnaissance utilizing a helicopter to view inaccessible areas of the site. The aerial reconnaissance was conducted in a grid pattern. Historical and regulatory research revealed several former "garbage dumps" and landfills which posed potential financial liability and health risks.

Phase I Environmental Assessments, European-based Chemical Company, Illinois and Mississippi, Project Manager--Performed Phase I Environmental Site Assessments on large agricultural research stations formerly used for testing herbicides, fungicides, and insecticides. Through visual assessment, records review, and regulatory research, an environmental report was prepared which enabled the owner to sell the properties.

Phase I Environmental Assessments, Fortune 200 Manufacturing Facility in Chicago, Illinois, Project Manager--Performed Phase I Environmental Site Assessment of approximately ten-acre Chicago area manufacturing facility. This 100+ year old facility historically utilized large quantities of chemicals and petroleum-related products in its gasket manufacturing. The report was prepared to identify environmental issues for sale of the property.

Phase I Environmental Assessments, Muffler and Brake Shops, Metropolitan Chicago, Illinois, Project Manager--Performed thirty to forty Phase I Environmental Site Assessments of various franchise-owned muffler and brake shops.

Phase I Environmental Assessments, Confidential Plastic Manufacturing Facilities, Metropolitan Chicago, Illinois, Project Manager--Performed Phase I Environmental Site Assessments at plastic extrusion and injection molding facilities.

Phase I Environmental Assessments, Confidential Law Firm, Metropolitan Chicago, Illinois, Project Manager--Performed Phase I Environmental Site Assessments at various large shopping centers in Chicago suburbs.

Storm Water Pollution Prevention Plan, Chicago, Illinois, Project Scientist--Assisted in the development of a Storm Water Pollution Prevention Plan associated with National Pollutant Discharge Elimination System (NPDES) permitting. Work was performed for a private industrial facility in the Chicago area. Project development included site analysis, compliance analysis, spill identification and response procedures.

Storm Water Pollution Prevention Plan, Multi-site, United States, Project Manager -- Provided oversight and direction in the initial development of Storm Water Pollution Prevention Plans associated with National Pollutant Discharge Elimination System (NPDES) permitting for ten facilities based nationwide. Work was performed for a private industrial client. Project management included review of the storm water plans, site analysis, compliance analysis, spill identification and response procedures.

Storm Water Pollution Prevention Plan, Chicago O'Hare Airport, Chicago Department of Aviation, Environmental Scientist--Performed annual facility inspection of all tenant and DOA facilities as required by the airport's NPDES permit.

Private Well Sampling, U.S. Army Corps of Engineers, Environmental Scientist--Conducted private well sampling to assess water quality. Sampling was performed for business in the vicinity of O'Hare International Airport.

SARA Title III Reporting, Chicago, Illinois, Project Scientist--Prepared information for and completed SARA Title III R Forms for various facilities in Chicago, Central Illinois, Indiana, and Alabama.

Phase I Environmental Assessments, Project Manager and Department

Supervisor--Directed and coordinated performance of Phase I Environmental Site Assessments associated with property transactions for private individuals, law firms, and financial institutions. Reviewed, edited, and directed preparation of final reports.

Multiple Phase I Environmental Assessments, Project Manager--Coordinated the efforts of environmental investigators, researchers, and field crews in site assessment activities in order to complete, in one week, eleven Phase I Environmental Assessment reports. This work was performed for a real estate management firm submitting reports to the Department of Housing and Urban Development (HUD) in Chicago, Illinois. Designed and managed Phase II activities for the eleven sites.

Indoor Air Quality Investigation, Project Coordinator--Coordinated business development efforts. Participated in project design with industrial hygienist and professional engineer. Involvement in several projects including suburban fire department, large office building in Chicago, Illinois, and suburban medical facility.

Underground Storage Tanks Evaluations, Environmental Scientist--Prepared underground storage tanks evaluations and management plans for private industry and public institutions.

Environmental Compliance Assessments, Project Manager--Managed a multi-facility project including environmental compliance assessments for private industry with corporate offices in Chicago, Illinois.

EDUCATION

B.S. English, Northwestern University, 1986

Environmental Audits of Real Estate, Moraine Valley Community College, 1990

Environmental Site Assessments: Case Studies and Strategies, National Ground Water Association, Columbus, Ohio, 1991

Environmental Site Assessments: Case Studies and Strategies, National Ground Water Association, Orlando, Florida, 1992

A Theory for Management by Dr. W. Edwards Deming, St. Louis, Missouri, 1992

Senate Bill 41. The Illinois Innocent Landowner Defense, Environmental Data Resources, Inc., Chicago, Illinois, 1994

Certified Hazardous Materials Managers (professional review course), Arlington Heights, Illinois, 1995

Title V Review, U.S. Environmental Protection Agency, Chicago, Illinois, 1995

REGISTRATIONS AND AFFILIATIONS

Accredited Hazardous Waste Site Worker, 2002

Certified OSHA Hazardous Waste Site Supervisor, 2002

Association of Ground Water Scientists and Engineers, 1991 - 1993

AHERA Accredited Building Inspector, State of Illinois

Licensed Asbestos Professional, State of Illinois

Licensed Asbestos Professional, State of Wisconsin

PUBLICATIONS AND PRESENTATIONS

Theleen, B.H. and Solovey, M.T., U.S. Environmental Testing and Consultants, Inc., 1991.
Understanding Environmental Property Assessments. Presented for financial institutions during 1991,
Chicago, Illinois.

**Mary E. Jank, C.P.G.
Principal Geologist**

Biosketch

Ms. Jank has more than 18 years of experience as a professional geologist and project manager. Her experience has included Phase I and Phase II site assessments, well site supervision, borehole logging, soil sampling, water sampling, soil vapor surveys, dye studies in fractured bedrock, XRF of lead in soils, and UST removal and site closure. Her experience has encompassed CERCLA and RCRA projects, as well as voluntary cleanups under several state programs. Her responsibilities have included site and project management activities. Ms. Jank is experienced at hydrogeological interpretation and the mapping of constituent migration in numerous types of subsurface environments including karst and discontinuous tills. Her client and agency interface experience is extensive and Ms. Jank has been a key contributor during negotiations with the EPA, the Corps of Engineers and other state and local government agencies.

Ms. Jank has prepared quality assurance documentation under both CERCLA and RCRA for both industrial and government clients. Ms. Jank also has completed TACO Tier 2 risk assessments and has assisted in Tier 3 risk assessments at several sites. Ms. Jank has also completed CERCLA risk assessment and feasibility study documents, and participated in CERCLA community relations activities including preparation of community relation plans and public meetings.

Education

M.S., Geology, Michigan State University, East Lansing, MI
B.A., with Honors in Geology, Skidmore College, Saratoga Springs, NY

Licenses/Registrations/Certifications

Certified Professional Geologist, American Institute of Professional Geologists, #CPG-9941
Registered Geologist (RG), Missouri, #816
Professional Geologist (PG), Wisconsin, #891
Licensed Professional Engineer Geologist (LPG), Illinois, #196-000721
Licensed Professional Geologist (LPG), Indiana, #1966

Project Experience

Project Manager, Site Remediation Program Closure, 445 N. Sacramento

Project Manager for site investigation, remediation and closure activities under the Illinois Environmental Protection Agency (IEPA) Site Remediation Program (SRP) for two parcels at this address. The front portion of the site, a former manufacturing facility, is occupied by a former office building which was re-developed as a “green building”. due to the “green building” concept, MACTEC was required to gain approval from the IEPA for engineered barriers which differed from the usual asphalt and concrete barriers. The City of Chicago submitted this site in 2002 for the Phoenix Awards competition for brownfield redevelopment. The site was recognized with the Region 5 Award and was a runner-up for the Grand Prize.

The second parcel is a vacant lot which was used as a construction debris dump by a former property owner. A Site Investigation Report has been submitted and a Remedial Objectives Report and Remedial Action Plan have been prepared. Removal of tar and associated soils, and excavation and removal of PNA and lead hot spots has occurred. Confirmation sampling was performed and additional soil removal will need to be performed.

Client: City of Chicago, Department of Environment

Project Manager, Site Remediation Program Closure of Cicero Site

Prepared all SRP program documentation for large industrial facility in Cicero, Illinois which is being redeveloped into a Junior High School. Site was divided into seven zones based on the construction schedule so that remediation and closure of each zone could be performed separately to meet construction needs. Work was performed as a subcontractor to another consultant. Remediation activities included the excavation and disposal of soil from all seven zones and gridded confirmation sampling to show that remediation was complete of Site is 2003 Phoenix Award winner for Community Impact.

Client: Mattson Associates, Limited

Project Manager, Site Remediation Program Closure

MACTEC has prepared Remedial Objectives Reports and Remedial Action Plans, overseen the remediation activities which consisted of soil excavation and removal, and the installation of engineered barriers, and completed Remedial Action Completion Reports for three Chicago Public Schools sites. MACTEC was asked to complete activities at these sites after the previous consultant had performed most site investigation activities and the sites had been entered into the Site Remediation Program.

Client: Chicago Public Schools

Project Manager, Spill Remediation and Closure

MACTEC performed investigation activities and prepared Remedial Objectives Reports and Remedial Action Plans for two ortho-xylene spills occurring within 3 months of one another at this manufacturing facility along Interstate 55 near Chicago. The remedial objectives reports used TACO Tier 2 risk assessment to reduce the amount of soil which would need to be remediated. Soil was remediated by excavation and removal. Confirmation sampling was performed based on a statistical formula which increased grid spacing as the size of the area increased. A closure report is being prepared.

Client: Confidential Manufacturer

Reviewer

Program Manager and reviewer for Phase I and Phase II Environmental Site Assessments, and other due diligence for clients including industrial, commercial and local government.

Client: Various

Technical Lead/Reviewer

Lead technical resource and reviewer for Phase I and Phase II Environmental Site Assessments, other due diligence, lift removals and remediation projects for major retailer.

Client: Confidential

RCRA Closure of former Oil Storage Area, Confidential Client, Indiana, Project Manager--Project involved additional investigation of former oil storage area found to be contaminated with chlorinated solvents. Remedial Action Plan was accepted by IDEM and the design of soil vapor extraction system was completed. MACTEC prepared specifications and obtained contractor bids. MACTEC was then asked to oversee system construction on a turnkey basis. Construction of the remedial system was completed.

Client: Confidential

Lead Geologist, Site Remediation Program Closure of Former Manufacturing Facility

Site underwent extensive remediation and a risk assessment was conducted previously. A draft NFR was issued with a provision for quarterly groundwater monitoring. The groundwater monitoring indicated that offsite impacts were present from groundwater which is not migrating in a down gradient flow direction. Fracture flow was suspected in the dolomite/limestone bedrock underlying the site. Geophysical data was

examined and a dye study completed. Based on these results, a remediation pilot study was recently completed and oxygen release compounds have been injected to begin remediation.

Client: Avaya, Inc. formerly Lucent Technologies

Technical Lead, Site Remediation Program Closure of Two Sites

Reviewed previous consultant documents, and entered the sites into the SRP program. At New Sullivan School, the site was entered into the SRP in June 2000. A previous Phase I and Phase II had been completed at the property which was an entire city block in extent. No additional sampling was determined to be necessary after consultation with the IEPA in the context of developing the Remedial Objectives Report/ Remedial Action Plan for the property. Removal of soil, (the soil removal was necessary for construction), and backfill with clean soil were the planned remedial activities. These activities were completed and documented the site was given a "No Further Remediation" letter in November 2000. At the Moos School site, entry into the SRP was only accomplished in January 2001 as the Chicago Public Schools did not acquire the property until December 2000. A previous Phase I and Phase II had been completed at the property. Additional sampling was completed in 2000 and in February 2001. The site was remediated and a No Further Remediation letter obtained in October 2001. MACTEC is currently performing services under the SRP program for three other Chicago Public School sites.

Client: Chicago Public Schools

Task Manager, Remediation of former Gas Station, Confidential Location

Responsible for coordination of field activities and confirmation sampling for large gas station remediation project. Over 8,000 cubic yards of soil were excavated and removed for clean closure. Gridded confirmation sampling was performed to verify clean closure. Also responsible for investigation and closure of offsite contamination and groundwater issues. Prepared closure documentation and LUST reimbursement package

Client: Confidential

Task Manager, Environmental Services at FUDS, Chicago, Illinois

Responsible for task order management of multiple environmental investigations and sampling activity at Chicago area sites. Prepared work plans for field investigation, performed data interpretation and prepared project reports. The eleven projects-to-date have included: Brownfields, UST classification, geophysical investigation, groundwater sampling, well installation, sump investigation and sampling, soil sampling and sediment sampling. Two of the projects involved multiple sampling rounds. The most recent project involved the decommissioning of a former FDA laboratory contaminated with asbestos, mercury, dioxin and perchlorate. The project was completed within a very tight timeframe despite additions to the scope.

Client: U.S. Army Corps of Engineers, Chicago District

Project Manager, Warehouse Parcel, Chicago, Illinois

Completed a SRP Site Characterization and Remedial Objectives report for this Brownfields site which is to be re-developed. IEPA SRP accepted the Site Characterization and the Remedial Objectives report. Free product at the site has been removed and confirmation sampling was completed. Final NFR letter received in August 2001. Client has requested assistance with an adjacent parcel which was entered into the SRP in June 2001. Remediation of this site has been performed and confirmation sampling completed. A completion report was submitted to the IEPA and a NFR letter was received.

Client: Confidential

Rosemont, Illinois Facility – Technical Support, Review

Provided technical support and review of alternatives evaluation and risk assessment for a former adhesives manufacturing facility contaminated with approximately 7,000 gallons of 1,1,1-trichloroethane leaked from underground storage tanks. Risk assessment was completed after groundwater treatment and removal of free product at the site.

Client: DAP Incorporated

Geologic and Hydrogeologic Pre-Design Investigation, Fort Wayne, Indiana, Supervisor--Oversaw personnel performing site investigations at former manufactured gas plant (MGP) site. The investigation included soil boring and monitoring well nest installation, plus hydraulic conductivity testing efforts as part of remedial design investigations involving DNAPL containment and recovery systems. Reviewed project documents including work plans and final report.

Client: Confidential Electric Utility

Geologic and Hydrogeologic Pre-Design Investigation, Hammond, Indiana, Supervisor--Oversaw personnel performing site investigations at former manufactured gas plant (MGP) site. The investigation included soil boring and monitoring well nest installation and sampling. Soil, DNAPL and ground water sampling were performed. Reviewed work plan and QAPP, and final report.

Client: Confidential Electric Utility

TACO Evaluation, North and Cicero Site, Chicago, Illinois

Primary author of TACO Tier 2 and Tier 3 evaluation prepared as a supplement to previous site risk assessment. IEPA has reviewed and accepted the evaluation and provided closure documentation for this former Brownfields site.

Client: Chicago Transit Authority (CTA)

Project Manager, Remedial Investigation/Feasibility Study, National Priorities List Landfill, Joliet, Illinois

Project Manager for an RI/FS at an NPL Landfill in Joliet, Illinois for a major PRP. Ms. Jank developed an alternative, focused RI scope of work; and helped the client with IEPA, USEPA Region V and Illinois Attorney General acceptance and revision of the Consent Decree. Limited and focused feasibility study has also been recommended and accepted by the client. The first round of sampling activities was completed and based on those results, a significant reduction in scope for the second round of sampling was negotiated with the IEPA and USEPA Region V.

Client: Confidential Chemical Manufacturer

Summary Report and TACO Evaluation, 74th and Wood, Chicago, Illinois

Primary author of summary report and TACO evaluation for this site which was remediated to allow construction to proceed in 1992 and 1993. Current evaluation was for a potential sale and lease-back

Client: Chicago Transit Authority

TACO Evaluation, Coatings Manufacturing Facility, Oak Forest, Illinois

Primary author of TACO Tier 2 evaluation prepared following previous UST removals and investigation.

Client: Confidential Coatings Manufacturer

Task Manager, RCRA Facility Investigation, Pharmaceutical Manufacturer Plant, Illinois

Task manager and primary author for Phase II RFI report for this large, integrated manufacturing plant with six SWMUs remaining in the Corrective Action process. Performed TACO evaluation resulting in proposed closure of all six SWMUs with little or no Corrective Action. Closure documentation was approved by the IEPA.

Client: Confidential Pharmaceutical Manufacturer

Project Geologist, RCRA Facility Investigation, Solvent Distribution Facility, Illinois

Conducted RFI investigation at chlorinated solvent distribution facility. RFI activities consist of the installation of 12 soil borings, soil and groundwater sampling. The purpose of the investigation was to complete the horizontal and vertical delineation of soils impacted with chlorinated solvents resulting from operations at the facility's three SWMUs.

Client: Confidential Solvent Distributor

Project Manager, Phase I and Phase II Site Assessments, Chemical Manufacturing Facilities, Seven States

Project Manager for fast-track Phase I and Phase II site assessments for a confidential industrial client. Draft Phase I and Phase II assessments were performed at 7 sites across the United States in four weeks in December 1993. From these assessments, remedial action recommendations and cost estimates were prepared.

Client: Confidential Chemical Manufacturer

Project Manager, Remedial Investigation/Feasibility Study, Former Ordnance Works (17,000 acres), St. Charles, Missouri

Site Manager and RI report manager for WSOW Superfund site in St. Louis, MO. Responsible for preparation of planning documents. Supervised sampling activities which included the completion of over 100 soil borings, surface water and sediment sampling and over 2,000 surface soil samples. Used results of dye trace, contaminant mapping, and conductivity testing to determine predominant contaminant migration pathways in karstic, fractured limestone. Primary author of RI report. Project Manager for continuing work at the Weldon Spring Ordnance Works NPL Site. Project work involved: the completion of a Conceptual Program Plan, Community Relations Plan, two Final RI reports (one for the Training Area), and a combined Risk Assessment. Assisted in implementing Community Relations Program for the site including production of newsletters, setting up an information repository and public meetings.

Assisted with Feasibility Study, Proposed Plan and ROD preparation. Supervised on-going groundwater studies and completed pre-design XRF survey of identified lead-contaminated areas. Responsible for providing assistance to the Corps of Engineers for joint RI report and FS for Operable Unit 2 Groundwater at the Weldon Spring Ordnance Works NPL site. Work was being performed jointly with the Department of Energy whose contractor is the primary author of both reports.

Client: U.S. Army Corps of Engineers, Kansas City District

Project Manager, RCRA Facility Investigation, Abandoned Lead Smelter and Battery Breaking Site, North Chicago, Indiana

Responsible for preparation of Work Plan and implementation of a RFI at an abandoned former lead smelter and battery breaking operation in Indiana. Developed and gained IDEM approval of an alternative scope of work incorporating x-ray fluorescence field measurements of lead in soils with confirmatory analytical testing.

Client: Confidential Industrial Client

Geologist and Task Manager, Design of Groundwater Pump and Treat System, New Jersey

Responsible for preparation of planning documents for the design and construction of a groundwater withdrawal treatment and reinjection system for the Goose Farm NPL site in New Jersey. Evaluated and helped develop alternative design and operating approaches needed to address cemented sand unit discovered at the site.

Client: Confidential Industrial Client

Project Geologist, Hydrogeologic Investigation, Former Truck Cleaning Facility Site, South Bend, Indiana

Responsible for environmental investigation of soil and groundwater affected by volatile organic compounds for an industrial client in Indiana. Developed work plan, QAPP, Data Management Plan, and Health and Safety Plan. Implemented and completed project. Project involved extensive contact and presentations to USEPA Region V and other public agencies.

Client: Confidential Industrial Client

Site Manager, Pre-Design Investigation, Ninth Avenue Superfund Site, Gary, Indiana

Pre-design investigation consisting of soil borings, geotechnical testing, groundwater testing, in support of Interim Site Remedy of slurry wall and groundwater treatment system.

Client: PRP Group

Project Geologist, Remedial Investigation/Feasibility Study, Production Area of Former Ordnance Works, St. Charles, Missouri

Site manager for last phase of well installation, soil sampling, air monitoring and other activities at COE Weldon Spring Training Area site. Used fracture trace analysis and dye trace results to choose optimal placement of bedrock monitoring wells. Assisted in preparation of Feasibility Study and Risk Assessment.

Client: U.S. Army Corps of Engineers, Kansas City District

Project Geologist, Hazardous Waste Site Characterizations, Eight DERA sites, Illinois and Wisconsin

Supervising project geologist for evaluation of COE DERA sites in Illinois and Wisconsin. Responsible for preparation of work plans, field investigation, and report preparation for seven former NIKE missile bases and one former ordnance works burning ground.

Client: U.S. Army Corps of Engineers, Buffalo District

Sampling Team Leader, Soil Vapor Survey, Chemical Plant Site, Detroit, Michigan

Supervised sampling activities for large soil vapor survey (more than 2000 points) for industrial client.

Client: Confidential Industrial Client

Training

Technical Marketing and Proposal Preparation, in-house seminar--IT Corporation, H. Silver and Associates, Inc. September, 1991 Itasca, Illinois

Health and Safety Training (40 hours), 8 hour Refreshers and Supervision of Hazardous Waste Operations (as required by OSHA 29 CFR 1910.120)

Red Cross First Aid and CPR, 2000

Practical Karst Hydrogeology with Emphasis on Ground Water Monitoring, Short Course NWWA, November 27-December 1, 1989. 3.0 CEU

The Engineer as Manager, Battelle Seminars Program, October 10-11, 1990, Chicago, Illinois

Employment History

Principal, MACTEC Engineering and Consulting, Inc.(formerly Harding ESE, Inc., formerly Environmental Science and Engineering, Inc.) Chicago, Illinois, 1996 to Present

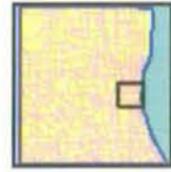
Project Manager/Group Leader, IT Corporation, Chicago, Illinois, 1988 to 1996

Geologist, Chevron USA, 1982 to 1985

APPENDIX I

Lake County – Illinois Wetland Inventory

Lake County, Illinois Wetland Inventory



- Wetlands
- 2004 Aerial Photography
- Major Water
- Parcels

Scale 1 inch = Approx. 2000 feet



For information contact:
 Lake County Department of
 Information and Technology
 18 N County St
 Waukegan IL 60085

Map Printed on 8/2/2005
 Printed From:
<http://www.co.lake.il.us/maps>



Property boundaries indicated are provided as a courtesy for general locational purposes. A Registered Land Surveyor should be consulted to determine the precise location of property boundaries on the ground. This map is intended to be viewed and printed in color.

APPENDIX J

Radon Results

Location-Site	Building No.	Address	Radon Test Date	Radon Test Results
Forrestal	2119	2119 MERIDIAN DRIVE	31-Mar-05	2.2
Forrestal	2135	2135A ATLANTIC ROAD	12-Oct-02	1.3
Forrestal	2135	2135B ATLANTIC ROAD	12-Oct-02	1.5
Forrestal	2137	2137B ATLANTIC ROAD	27-Apr-02	2
Forrestal	2137	2137A ATLANTIC ROAD	27-Apr-02	2.6
Forrestal	2152	2152 HAWAII AVE	27-Apr-02	2.9
Forrestal	2153	2153 HAWAII AVE	10-Apr-02	4.6
Forrestal	2154	2154 HAWAII AVE	10-Apr-02	1.8
Forrestal	2156	2156 HAWAII AVE	29-Mar-04	2.3
Forrestal	2158	2158 HAWAII AVE	29-Mar-04	0.9
Forrestal	2159	2159 HAWAII AVE	29-Mar-04	0.3
Forrestal	2160	2160 HAWAII AVE	29-Mar-04	1.9
Forrestal	2166	2166B S ADMIRAL DRIVE	29-Mar-04	0.5
Forrestal	2166	2166A S ADMIRAL DRIVE	29-Mar-04	2
Forrestal	2168	2168A S ADMIRAL DRIVE	29-Mar-04	2.3
Forrestal	2168	2168B S ADMIRAL DRIVE	29-Mar-04	Retest
Forrestal	2225	2225C ALABAMA AVE	31-Mar-05	0.8
Forrestal	2235	2235A ALABAMA AVE	31-Mar-05	1.5
Forrestal	2253	2253B ALABAMA AVE	30-Mar-05	1.9
Forrestal	2259	2259B ALABAMA AVE	28-Mar-05	3
Forrestal	2263	2263A ALABAMA AVE	31-Mar-05	1.7
Forrestal	2340	2340B CALIFORNIA AVE	30-Mar-05	1.4
Forrestal	2343	2343B CALIFORNIA AVE	30-Mar-05	9.6
Forrestal	2343	2343A CALIFORNIA AVE	31-Mar-05	23.2
Forrestal	2364	2364B DELAWARE AVE	31-Mar-05	2.2
Forrestal	2381	2381A DELAWARE AVE	31-Mar-05	9
Forrestal	2381	2381B DELAWARE AVE	31-Mar-05	9
Forrestal	2384	2384B DELAWARE AVE	31-Mar-05	11.1
Forrestal	2384	2384A DELAWARE AVE	31-Mar-05	13.9
Forrestal	2385	2385A DELAWARE AVE	30-Mar-05	5.9
Forrestal	2385	2385B DELAWARE AVE	30-Mar-05	7.1
Forrestal	2387	2387B DELAWARE AVE	2001	7.9
Forrestal	2423	2423 NEW YORK AVE	31-Mar-05	2.6
Forrestal	2427	2427A NEW YORK AVE	31-Mar-05	1
Forrestal	2442	2442 NEW YORK AVE	Jan-01	7.5
Forrestal	2452	2452B OHIO AVE	31-Mar-05	1.1
Forrestal	2453	2453B OHIO AVE	30-Mar-05	3.3
Forrestal	2461	2461A OHIO AVE	30-Mar-05	4.3
Forrestal	2477	2477B OHIO AVE	31-Mar-05	8.3
Forrestal	2481	2481B OHIO AVE	31-Mar-05	6.4
Forrestal	2517	2517 MERIDIAN DRIVE	31-Mar-05	2.8
Forrestal	2534	2534 S ADMIRAL DRIVE	30-Mar-05	1.1
Forrestal	2537	2537 MERIDIAN DRIVE	30-Mar-05	1.3
Forrestal	2549	2549 N ADMIRAL DRIVE	30-Mar-05	1.6
Forrestal	2629	2629B PENNSYLVANIA AVE	30-Mar-05	1
Forrestal	2640	2640B PENNSYLVANIA AVE	31-Mar-05	1.8
Forrestal	2644	2644B PENNSYLVANIA AVE	31-Mar-05	6
Forrestal	2662	2662A VIRGINIA AVE	31-Mar-05	1.8
Forrestal	2677	2677D VIRGINIA AVE	31-Mar-05	4.6
Forrestal	2829	2829 E WASHINGTON AVE	31-Mar-05	2.1
Forrestal	2830	2830C E WASHINGTON AVE	30-Mar-05	1.5
Forrestal	2834	2834D E WASHINGTON AVE	30-Mar-05	0.9
Forrestal	2922	2922B E WYOMING AVE	31-Mar-05	0.5
Forrestal	2940	2940E E WISCONSIN DRIVE	31-Mar-05	1.4
Forrestal	2944	2944D W WISCONSIN DRIVE	31-Mar-05	0.7
Forrestal	3040	3040M E WYOMING AVE	30-Mar-05	1.5
Forrestal	3117	3117D MONTANA AVE	29-Mar-04	0
Forrestal	3117	3117A MONTANA AVE	29-Mar-04	0.2
Forrestal	3117	3117C MONTANA AVE	29-Mar-04	0.5
Forrestal	3117	3117B MONTANA AVE	29-Mar-04	0.7
Forrestal	3120	3120C NEBRASKA COURT	29-Mar-04	3
Forrestal	3120	3120A NEBRASKA COURT	29-Mar-04	3.1
Forrestal	3120	3120D NEBRASKA COURT	29-Mar-04	3.1
Forrestal	3120	3120B NEBRASKA COURT	29-Mar-04	3.5
Forrestal	3122	3122A NEBRASKA COURT	29-Mar-04	1.3
Forrestal	3122	3122B NEBRASKA COURT	29-Mar-04	1.4
Forrestal	3123	3123A NEBRASKA COURT	29-Mar-04	1.5
Forrestal	3123	3123B NEBRASKA COURT	29-Mar-04	2.3
Forrestal	3124	3124A NEBRASKA COURT	29-Mar-04	1.6

Neighborhood	per Neighborhood
Forrestal	288
Glenview	11
Halsey	97
Hospital Cove	5
Mainside	4
Nimitz	32
Total	437

Location-Site	Building No.	Address	Radon Test Date	Radon Test Results
Forrestal	3124	3124B NEBRASKA COURT	29-Mar-04	1.6
Forrestal	3125	3125A NEBRASKA COURT	29-Mar-04	2.2
Forrestal	3125	3125B NEBRASKA COURT	29-Mar-04	2.3
Forrestal	3129	3129C MONTANA AVE	29-Mar-04	0.05
Forrestal	3129	3129D MONTANA AVE	29-Mar-04	0.07
Forrestal	3129	3129B MONTANA AVE	29-Mar-04	0.3
Forrestal	3129	3129A MONTANA AVE	29-Mar-04	1
Forrestal	3133	3133A MONTANA AVE	29-Mar-04	0.2
Forrestal	3139	3139A MONTANA AVE	29-Mar-04	1.1
Forrestal	3139	3139B MONTANA AVE	29-Mar-04	1.1
Forrestal	3140	3140A MONTANA AVE	29-Mar-04	1.5
Forrestal	3140	3140B MONTANA AVE	29-Mar-04	2.1
Forrestal	3144	3144B ARIZONA AVE	29-Mar-04	0.5
Forrestal	3144	3144A ARIZONA AVE	29-Mar-04	0.7
Forrestal	3147	3147A ARIZONA AVE	29-Mar-04	0
Forrestal	3147	3147B ARIZONA AVE	29-Mar-04	0.2
Forrestal	3148	3148A ARIZONA COURT	29-Mar-04	0.4
Forrestal	3148	3148B ARIZONA COURT	29-Mar-04	0.8
Forrestal	3157	3157C TEXAS COURT	31-Mar-05	0.9
Forrestal	3158	3158A TEXAS COURT	30-Mar-05	0.5
Forrestal	3166	3166B ARIZONA AVE	31-Mar-05	0.7
Forrestal	3168	3168A ARIZONA AVE	31-Mar-05	1.7
Forrestal	3175	3175A ARIZONA AVE	29-Mar-04	0.7
Forrestal	3175	3175D ARIZONA AVE	29-Mar-04	1.1
Forrestal	3175	3175B ARIZONA AVE	29-Mar-04	1.6
Forrestal	3175	3175C ARIZONA AVE	29-Mar-04	2
Forrestal	3182	3182B MERIDIAN DRIVE	31-Mar-05	1.8
Forrestal	3188	3188D MERIDIAN DRIVE	30-Mar-05	0.6
Forrestal	3188	3188C MERIDIAN DRIVE	31-Mar-05	<.4
Forrestal	3191	3191A MERIDIAN COURT	31-Mar-05	1
Forrestal	3670	3670A GREAT LAKES DRIVE	13-Oct-01	0.2
Forrestal	3670	3670C GREAT LAKES DRIVE		0
Forrestal	3671	3671D WASHINGTON AVE	26-Oct-01	0.1
Forrestal	3671	3671A WASHINGTON AVE	26-Oct-01	0.4
Forrestal	3671	3671B WASHINGTON AVE	26-Oct-01	0.5
Forrestal	3671	3671C WASHINGTON AVE	26-Oct-01	0.5
Forrestal	3672	3672B WASHINGTON AVE	18-Sep-01	0
Forrestal	3672	3672A WASHINGTON AVE	19-Sep-01	0
Forrestal	3674	3674B WASHINGTON AVE	14-Nov-01	0
Forrestal	3674	3674C WASHINGTON AVE	14-Nov-01	0
Forrestal	3674	3674A WASHINGTON AVE	04-Dec-01	0
Forrestal	3675	3675A GREAT LAKES DRIVE	03-Feb-02	0
Forrestal	3675	3675B GREAT LAKES DRIVE	03-Feb-02	0
Forrestal	3675	3675D GREAT LAKES DRIVE	03-Feb-02	0
Forrestal	3676	3676A WASHINGTON AVE	18-Nov-01	0.5
Forrestal	3676	3676B WASHINGTON AVE	18-Nov-01	0.5
Forrestal	3676	3676C WASHINGTON AVE	18-Nov-01	0.5
Forrestal	3676	3676D WASHINGTON AVE	18-Nov-01	0.7
Forrestal	3677	3677B WASHINGTON AVE	04-Dec-01	0
Forrestal	3677	3677A WASHINGTON AVE	04-Dec-01	0.1
Forrestal	3677	3677D WASHINGTON AVE	04-Dec-01	0.2
Forrestal	3677	3677C WASHINGTON AVE	11-Dec-01	0
Forrestal	3678	3678A WASHINGTON AVE	01-Dec-01	0.1
Forrestal	3678	3678B WASHINGTON AVE	02-Dec-01	0
Forrestal	3680	3680A WASHINGTON AVE	20-Dec-01	0
Forrestal	3680	3680C WASHINGTON AVE	20-Dec-01	0
Forrestal	3680	3680D WASHINGTON AVE	20-Dec-01	0
Forrestal	3681	3681B WASHINGTON AVE	28-Jan-02	0
Forrestal	3681	3681D WASHINGTON AVE	28-Jan-02	0
Forrestal	3681	3681C WASHINGTON AVE	28-Jan-02	0.4
Forrestal	3681	3681A WASHINGTON AVE	28-Jan-02	0.7
Forrestal	3682	3682C WASHINGTON AVE	30-Mar-05	<0.4
Forrestal	3684	3684B WASHINGTON AVE	08-Jan-02	0
Forrestal	3684	3684A WASHINGTON AVE	08-Jan-02	0.1
Forrestal	3685	3685A GREAT LAKES DRIVE	01-Oct-01	0
Forrestal	3685	3685D GREAT LAKES DRIVE	28-Sep-02	1.8
Forrestal	3685	3685C GREAT LAKES DRIVE	02-Oct-02	0.1
Forrestal	3685	3685B GREAT LAKES DRIVE	20-Oct-02	1.1
Forrestal	3686	3686B MINNESOTA AVE	08-Oct-02	2.8

Location-Site	Building No.	Address	Radon Test Date	Radon Test Results
Forrestal	3686	3686A MINNESOTA AVE	08-Oct-02	3.2
Forrestal	3686	3686C MINNESOTA AVE	08-Oct-02	3.3
Forrestal	3686	3686D MINNESOTA AVE	31-Mar-05	0.5
Forrestal	3687	3687D GREAT LAKES DRIVE	23-Jan-03	0.9
Forrestal	3687	3687B GREAT LAKES DRIVE	24-Jan-03	0.9
Forrestal	3687	3687C GREAT LAKES DRIVE	24-Jan-03	0.9
Forrestal	3688	3688A MINNESOTA AVE	12-Oct-02	1.8
Forrestal	3688	3688D MINNESOTA AVE	12-Oct-02	1.9
Forrestal	3688	3688B MINNESOTA AVE	12-Oct-02	2
Forrestal	3688	3688C MINNESOTA AVE	13-Oct-02	2.7
Forrestal	3689	3689A MINNESOTA AVE	25-Jan-03	0
Forrestal	3689	3689B MINNESOTA AVE	25-Jan-03	0.5
Forrestal	3690	3690A MINNESOTA AVE	20-Oct-02	1.6
Forrestal	3690	3690C MINNESOTA AVE	26-Oct-02	0.7
Forrestal	3691	3691A MINNESOTA AVE	14-Jan-03	0.2
Forrestal	3691	3691C MINNESOTA AVE	14-Jan-03	0.4
Forrestal	3691	3691D MINNESOTA AVE	14-Jan-03	0.5
Forrestal	3691	3691B MINNESOTA AVE	14-Jan-03	0.6
Forrestal	3692	3692C MINNESOTA AVE	24-Oct-02	0.8
Forrestal	3692	3692B MINNESOTA AVE	24-Oct-02	1.3
Forrestal	3692	3692D MINNESOTA AVE	25-Oct-02	0.8
Forrestal	3692	3692A MINNESOTA AVE	25-Oct-02	1.2
Forrestal	3694	3694C MINNESOTA AVE	08-Nov-02	0.9
Forrestal	3694	3694D MINNESOTA AVE	13-Nov-02	1
Forrestal	3694	3694B MINNESOTA AVE	28-Mar-05	1.1
Forrestal	3694	3694A MINNESOTA AVE	30-Mar-05	0.6
Forrestal	3695	3695A MINNESOTA AVE	06-Dec-02	0.7
Forrestal	3695	3695B MINNESOTA AVE	07-Dec-02	0.8
Forrestal	3696	3696D MINNESOTA AVE	20-Nov-02	0.4
Forrestal	3696	3696B MINNESOTA AVE	20-Nov-02	0.5
Forrestal	3696	3696A MINNESOTA AVE	20-Nov-02	0.6
Forrestal	3697	3697B GREAT LAKES DRIVE	14-Dec-02	0.2
Forrestal	3697	3697A GREAT LAKES DRIVE	14-Dec-02	1.1
Forrestal	3697	3697D GREAT LAKES DRIVE	14-Dec-02	2
Forrestal	3698	3698B WYOMING COURT	23-Sep-01	0.3
Forrestal	3698	3698C WYOMING COURT	23-Sep-01	0.7
Forrestal	3698	3698D WYOMING COURT	23-Sep-01	0.8
Forrestal	3698	3698A WYOMING COURT	23-Sep-01	1
Forrestal	3699	3699B WYOMING COURT	23-Sep-01	0.1
Forrestal	3699	3699D WYOMING COURT	23-Sep-01	0.3
Forrestal	3699	3699A WYOMING COURT	23-Sep-01	0.4
Forrestal	3700	3700A WYOMING COURT	26-Oct-01	0
Forrestal	3700	3700D WYOMING COURT	26-Oct-01	0
Forrestal	3700	3700B WYOMING COURT	26-Oct-01	1.3
Forrestal	3700	3700C WYOMING COURT	30-Oct-01	0
Forrestal	3701	3701A FLORIDA COURT	06-Feb-03	0.8
Forrestal	3701	3701D FLORIDA COURT	06-Feb-03	1.1
Forrestal	3701	3701C FLORIDA COURT	08-Feb-03	0.1
Forrestal	3702	3702A FLORIDA COURT	08-Mar-03	0.6
Forrestal	3702	3702B FLORIDA COURT	08-Mar-03	0.6
Forrestal	3702	3702C FLORIDA COURT	08-Mar-03	0.8
Forrestal	3702	3702D FLORIDA COURT	12-Mar-03	0.3
Forrestal	3703	3703C FLORIDA COURT	06-Feb-03	0
Forrestal	3703	3703D FLORIDA COURT	06-Feb-03	0
Forrestal	3703	3703F FLORIDA COURT	06-Feb-03	0
Forrestal	3703	3703B FLORIDA COURT	06-Feb-03	0.3
Forrestal	3703	3703A FLORIDA COURT	07-Feb-03	3
Forrestal	3703	3703E FLORIDA COURT	06-Mar-03	0.1
Forrestal	3704	3704B FLORIDA COURT	08-Mar-03	0
Forrestal	3704	3704D FLORIDA COURT	08-Mar-03	0
Forrestal	3704	3704A FLORIDA COURT	09-Mar-03	0
Forrestal	3704	3704C FLORIDA COURT	09-Mar-03	0
Forrestal	3705	3705F FLORIDA COURT	27-Feb-03	1
Forrestal	3705	3705D FLORIDA COURT	01-Mar-03	0.2
Forrestal	3705	3705E FLORIDA COURT	01-Mar-03	0.3
Forrestal	3705	3705B FLORIDA COURT	01-Mar-03	0.5
Forrestal	3705	3705A FLORIDA COURT	01-Mar-03	1
Forrestal	3705	3705C FLORIDA COURT	02-Mar-03	2.8
Forrestal	3706	3706C UTAH COURT	17-Sep-02	2.8

Location-Site	Building No.	Address	Radon Test Date	Radon Test Results
Forrestal	3706	3706D UTAH COURT	17-Sep-02	3
Forrestal	3706	3706A UTAH COURT	17-Sep-02	3.7
Forrestal	3706	3706B UTAH COURT	18-Sep-02	3.1
Forrestal	3707	3707D UTAH COURT	16-Aug-02	0.6
Forrestal	3707	3707B UTAH COURT	16-Aug-02	0.7
Forrestal	3707	3707C UTAH COURT	16-Aug-02	0.8
Forrestal	3708	3708B UTAH COURT	07-Sep-01	1.2
Forrestal	3708	3708A UTAH COURT	07-Sep-01	1.3
Forrestal	3709	3709C UTAH COURT	30-Aug-02	1.7
Forrestal	3709	3709A UTAH COURT	30-Aug-02	1.8
Forrestal	3709	3709B UTAH COURT	30-Aug-02	2
Forrestal	3709	3709D UTAH COURT	30-Aug-02	2.1
Forrestal	3709	3709F UTAH COURT	30-Aug-02	2.4
Forrestal	3709	3709E UTAH COURT	31-Aug-02	0.4
Forrestal	3710	3710D IDAHO COURT	31-Mar-05	1.2
Forrestal	3711	3711C IDAHO COURT	31-Mar-05	<0.4
Forrestal	3712	3712B NEVADA COURT	11-May-02	0
Forrestal	3712	3712C NEVADA COURT	11-May-02	0
Forrestal	3712	3712D NEVADA COURT	11-May-02	0.7
Forrestal	3712	3712A NEVADA COURT	11-May-02	1
Forrestal	3713	3713A NEVADA COURT	13-Jul-02	1.4
Forrestal	3713	3713C NEVADA COURT	24-Aug-02	1.3
Forrestal	3714	3714A NEVADA COURT	16-May-02	1.9
Forrestal	3714	3714C NEVADA COURT	16-May-02	2.1
Forrestal	3714	3714D NEVADA COURT	16-May-02	2.2
Forrestal	3714	3714B NEVADA COURT	18-May-02	2.4
Forrestal	3715	3715D NEVADA COURT	25-Jun-02	3.7
Forrestal	3715	3715C NEVADA COURT	25-Jun-02	3.8
Forrestal	3715	3715B NEVADA COURT	02-Aug-02	0.9
Forrestal	3715	3715A NEVADA COURT	02-Aug-02	2.9
Forrestal	3716	3716B NEVADA COURT	26-May-02	2.3
Forrestal	3716	3716A NEVADA COURT	26-May-02	2.5
Forrestal	3716	3716D NEVADA COURT	26-May-02	2.7
Forrestal	3716	3716C NEVADA COURT	29-May-02	3.9
Forrestal	3717	3717E NEVADA COURT	26-Jun-02	0
Forrestal	3717	3717B NEVADA COURT	28-Jun-02	0.8
Forrestal	3717	3717F NEVADA COURT	06-Jul-02	2.1
Forrestal	3717	3717D NEVADA COURT	30-Mar-05	0.4
Forrestal	3718	3718C TENNESSEE COURT	28-Mar-02	1.6
Forrestal	3718	3718B TENNESSEE COURT	28-Mar-02	1.7
Forrestal	3718	3718A TENNESSEE COURT	29-Mar-02	2.2
Forrestal	3718	3718D TENNESSEE COURT	30-Mar-02	0
Forrestal	3719	3719C TENNESSEE COURT	07-Mar-02	0
Forrestal	3719	3719D TENNESSEE COURT	07-Mar-02	0
Forrestal	3719	3719F TENNESSEE COURT	07-Mar-02	0
Forrestal	3719	3719A TENNESSEE COURT	07-Mar-02	0.2
Forrestal	3719	3719B TENNESSEE COURT	07-Mar-02	0.2
Forrestal	3719	3719E TENNESSEE COURT	07-Mar-02	0.2
Forrestal	3720	3720A TENNESSEE COURT	28-Mar-02	3.7
Forrestal	3720	3720B TENNESSEE COURT	30-Mar-02	0
Forrestal	3720	3720C TENNESSEE COURT	27-Apr-02	1.4
Forrestal	3720	3720D TENNESSEE COURT	27-Apr-02	1.5
Forrestal	3721	3721A TENNESSEE COURT	03-Mar-02	0
Forrestal	3721	3721B TENNESSEE COURT	03-Mar-02	0
Forrestal	3721	3721C TENNESSEE COURT	03-Mar-02	0
Forrestal	3721	3721D TENNESSEE COURT	03-Mar-02	0
Forrestal	3722	3722B TENNESSEE COURT	18-Feb-02	0
Forrestal	3722	3722C TENNESSEE COURT	18-Feb-02	0
Forrestal	3722	3722D TENNESSEE COURT	18-Feb-02	0
Forrestal	3722	3722E TENNESSEE COURT	18-Feb-02	0
Forrestal	3722	3722A TENNESSEE COURT	21-Feb-02	0
Forrestal	3723	3723B OREGON COURT	26-Aug-01	0.05
Forrestal	3723	3723D OREGON COURT	26-Aug-01	0.05
Forrestal	3723	3723A OREGON COURT	26-Aug-01	0.2
Forrestal	3723	3723C OREGON COURT	26-Aug-01	0.2
Forrestal	3724	3724D OREGON COURT	29-Aug-01	0.6
Forrestal	3726	3726A OREGON COURT	07-Sep-01	1.4
Forrestal	3728	3728A OREGON COURT	09-Mar-01	0.8
Forrestal	3728	3728D OREGON COURT	11-Sep-01	0.9

Location-Site	Building No.	Address	Radon Test Date	Radon Test Results
Forrestal	4201	4201B RHODE ISLAND AVE	31-Mar-05	0.5
Forrestal	4201	4201F RHODE ISLAND AVE	31-Mar-05	0.9
Forrestal	4205	4205D RHODE ISLAND COURT	30-Mar-05	1.4
Forrestal	4207	4207A RHODE ISLAND COURT	31-Mar-05	1.1
Forrestal	4210	4210A GREAT LAKES DRIVE	31-Mar-05	0.6
Forrestal	4213	4213B OKLAHOMA AVE	31-Mar-05	<0.4
Forrestal	4217	4217D OKLAHOMA AVE	30-Mar-05	<0.4
Forrestal	4217	4217B OKLAHOMA AVE	31-Mar-05	0.6
Forrestal	4231	4231A VERMONT AVE	31-Mar-05	0.8
Forrestal	4232	4232A VERMONT AVE	30-Mar-05	1
Forrestal	4235	4235B VERMONT AVE	31-Mar-05	1
Forrestal	4238	4238A VERMONT COURT	31-Mar-05	0.6
Forrestal	4240	4240D VERMONT COURT	31-Mar-05	1.1
Forrestal	4240	4240B VERMONT COURT	31-Mar-05	<0.4
Glenview	1104	104A CREWMAN DRIVE	28-Mar-05	0.6
Glenview	1107	107B CREWMAN DRIVE	28-Mar-05	0.6
Glenview	1114	114B CREWMAN DRIVE	28-Mar-05	0.9
Glenview	1119	119B CREWMAN DRIVE	28-Mar-05	0.4
Glenview	1200	200B AIRDALE COURT	28-Mar-05	0.6
Glenview	1300	300C DAUNTLESS CIRCLE	28-Mar-05	0.7
Glenview	1315	315B DAUNTLESS CIRCLE	28-Mar-05	1.2
Glenview	1909	909D BUCCANEER DRIVE	28-Mar-05	0.8
Glenview	1913	913A BUCCANEER DRIVE	28-Mar-05	1.1
Glenview	1927	927B BUCCANEER DRIVE	28-Mar-05	0.5
Glenview	1940	940A BUCCANEER DRIVE	28-Mar-05	1
Halsey	1830	1830B SARATOGA ST	31-Mar-05	0.7
Halsey	1831	1831C SARATOGA ST	31-Mar-05	0.5
Halsey	1831	1831D SARATOGA ST	31-Mar-05	0.5
Halsey	1831	1831B SARATOGA ST	31-Mar-05	0.8
Halsey	1833	1833B SARATOGA ST	31-Mar-05	0.7
Halsey	1834	1834B SARATOGA ST	31-Mar-05	0.8
Halsey	1835	1835B SARATOGA ST	31-Mar-05	0.9
Halsey	1836	1836B SARATOGA ST	31-Mar-05	<0.4
Halsey	1837	1837B SARATOGA ST	31-Mar-05	0.9
Halsey	1838	1838B SARATOGA ST	31-Mar-05	<0.4
Halsey	1839	1839B SARATOGA ST	31-Mar-05	0.6
Halsey	1841	1841B SARATOGA ST	31-Mar-05	<0.4
Halsey	1842	1842D SARATOGA ST	31-Mar-05	0.4
Halsey	1842	1842B SARATOGA ST	31-Mar-05	1.2
Halsey	1842	1842C SARATOGA ST	31-Mar-05	1.5
Halsey	1843	1843 SARATOGA ST	31-Mar-05	0.6
Halsey	1844	1844B SARATOGA ST	31-Mar-05	1.8
Halsey	1845	1845 SARATOGA ST	31-Mar-05	<0.4
Halsey	1846	1846B SARATOGA ST	31-Mar-05	0.5
Halsey	1883	1883B YORKTOWN AVE	31-Mar-05	0.7
Halsey	1884	1884B YORKTOWN AVE	31-Mar-05	1
Halsey	1885	1885B YORKTOWN AVE	31-Mar-05	0.6
Halsey	1886	1886B YORKTOWN AVE	31-Mar-05	0.5
Halsey	1887	1887B YORKTOWN AVE	31-Mar-05	<0.4
Halsey	1888	1888B YORKTOWN AVE	31-Mar-05	0.4
Halsey	1890	1890B YORKTOWN AVE	31-Mar-05	0.4
Halsey	1891	1891 ENTERPRISE AVE	31-Mar-05	1
Halsey	1892	1892B YORKTOWN AVE	31-Mar-05	2.6
Halsey	1893	1893 ENTERPRISE AVE	31-Mar-05	0.5
Halsey	1894	1894B ENTERPRISE AVE	31-Mar-05	0.8
Halsey	1895	1895 ENTERPRISE AVE	31-Mar-05	1.1
Halsey	1896	1896B ENTERPRISE AVE	31-Mar-05	0.7
Halsey	1897	1897 ENTERPRISE AVE	31-Mar-05	1.1
Halsey	1898	1898C ENTERPRISE AVE	31-Mar-05	1
Halsey	1898	1898B ENTERPRISE AVE	31-Mar-05	1.1
Halsey	1898	1898D ENTERPRISE AVE	31-Mar-05	1.3
Halsey	1899	1899 ENTERPRISE AVE	31-Mar-05	0.9
Halsey	1921	1921 LEXINGTON AVE	31-Mar-05	0.7
Halsey	1923	1923 LEXINGTON AVE	29-Mar-04	3.2
Halsey	1925	1925 LEXINGTON AVE	29-Mar-04	3.1
Halsey	1927	1927 RANGER COURT	29-Mar-04	2.7
Halsey	1930	1930 RANGER COURT	31-Mar-05	0.8
Halsey	1931	1931 RANGER COURT	29-Mar-04	2.7
Halsey	1932	1932 RANGER COURT	31-Mar-05	1.4

Location-Site	Building No.	Address	Radon Test Date	Radon Test Results
Halsey	1933	1933 RANGER COURT	29-Mar-04	1.8
Halsey	1935	1935 LEXINGTON AVE	29-Mar-04	1.7
Halsey	1936	1936A LEXINGTON AVE	29-Mar-04	2
Halsey	1936	1936B LEXINGTON AVE	29-Mar-04	2.4
Halsey	1937	1937 LEXINGTON AVE	29-Mar-04	1.4
Halsey	1939	1939B LEXINGTON AVE	29-Mar-04	0.3
Halsey	1939	1939A LEXINGTON AVE	29-Mar-04	1.7
Halsey	1940	1940A LEXINGTON AVE	29-Mar-04	2.2
Halsey	1940	1940B LEXINGTON AVE	29-Mar-04	2.4
Halsey	1941	1941A LEXINGTON AVE	29-Mar-04	0.3
Halsey	1941	1941B LEXINGTON AVE	29-Mar-04	0.7
Halsey	1943	1943B LEXINGTON AVE	29-Mar-04	1.1
Halsey	1943	1943A LEXINGTON AVE	29-Mar-04	3
Halsey	1944	1944A LEXINGTON AVE	29-Mar-04	1
Halsey	1944	1944B LEXINGTON AVE	29-Mar-04	1.5
Halsey	1946	1946B LEXINGTON AVE	29-Mar-04	2
Halsey	1946	1946A LEXINGTON AVE	29-Mar-04	2.5
Halsey	1947	1947A LEXINGTON AVE	31-Mar-05	1.2
Halsey	1950	1950B LANGLEY ST	29-Mar-04	0
Halsey	1950	1950A LANGLEY ST	29-Mar-04	1.4
Halsey	1954	1954B LANGLEY ST	31-Mar-05	<0.4
Halsey	1960	1960D LEXINGTON AVE	31-Mar-05	<0.4
Halsey	1961	1961A LEXINGTON AVE	31-Mar-05	0.5
Halsey	1965	1965A LEXINGTON AVE	31-Mar-05	<0.4
Halsey	1965	1965B LEXINGTON AVE	31-Mar-05	<0.4
Halsey	1973	1973A ENTERPRISE AVE	31-Mar-05	0.6
Halsey	1974	1974B ENTERPRISE AVE	31-Mar-05	0.8
Halsey	1975	1975A ENTERPRISE AVE	31-Mar-05	0.4
Halsey	1975	1975B ENTERPRISE AVE	31-Mar-05	0.4
Halsey	1986	1986A ENTERPRISE AVE	31-Mar-05	0.8
Halsey	1987	1987A ENTERPRISE AVE	31-Mar-05	<0.4
Halsey	1988	1988A ENTERPRISE AVE	31-Mar-05	<0.4
Halsey	1990	1990A ENTERPRISE AVE	31-Mar-05	0.6
Halsey	2038	2038B LANGLEY ST	31-Mar-05	0.4
Halsey	2038	2038C LANGLEY ST	31-Mar-05	0.4
Halsey	2038	2038D LANGLEY ST	31-Mar-05	0.4
Halsey	2038	2038A LANGLEY ST	31-Mar-05	0.9
Halsey	2041	2041B LANGLEY ST	31-Mar-05	1.5
Halsey	2048	2048A LANGLEY ST	31-Mar-05	0.6
Halsey	2050	2050B LANGLEY ST	31-Mar-05	1.3
Halsey	2052	2052A LANGLEY ST	31-Mar-05	<0.4
Halsey	2064	2064A LANGLEY ST	31-Mar-05	0.4
Halsey	2065	2065B LANGLEY ST	31-Mar-05	0.5
Halsey	2065	2065D LANGLEY ST	31-Mar-05	0.5
Halsey	2065	2065A LANGLEY ST	31-Mar-05	1.2
Halsey	2076	2076A LANGLEY ST	31-Mar-05	<0.4
Halsey	2081	2081A LEXINGTON AVE	31-Mar-05	0.8
Halsey	2083	2083B LEXINGTON AVE	31-Mar-05	<0.4
Halsey	2086	2086A LEXINGTON AVE	31-Mar-05	0.8
Halsey	2086	2086B LEXINGTON AVE	31-Mar-05	0.9
Halsey	2089	2089A ESSEX AVE	31-Mar-05	1
Halsey	2090	2090D ESSEX AVE	31-Mar-05	1.4
Halsey	2090	2090B ESSEX AVE	31-Mar-05	2.2
Hospital Cove	205	205A F STREET	28-Mar-05	0.9
Hospital Cove	208	300A G STREET	28-Mar-05	2.4
Hospital Cove	213	213 CIRCLE DRIVE	28-Mar-05	1
Hospital Cove	214	3119B TENTH STREET	28-Mar-05	0.8
Hospital Cove	215	3115A TENTH STREET	28-Mar-05	0.8
Mainside	63	317 DECATUR AVE	28-Mar-05	0.6
Mainside	A	2811 PERRY ST	28-Mar-05	0.9
Mainside	C	2731 PERRY ST	28-Mar-05	7.8
Mainside	I	2543 PERRY ST	28-Mar-05	4.6
Nimitz	4009	4009 ARGONAUT PL	28-Mar-05	1.2
Nimitz	4011	4011 ARGONAUT PL	28-Mar-05	1
Nimitz	4012	4012 YEAGER DRIVE	28-Mar-05	1.2
Nimitz	4019	4019 YEAGER DRIVE	28-Mar-05	3.2
Nimitz	4020	4020 YEAGER DRIVE	28-Mar-05	0.4
Nimitz	4023	4023 YEAGER DRIVE	28-Mar-05	5.3
Nimitz	4025	4025 YEAGER DRIVE	28-Mar-05	6.7

Location-Site	Building No.	Address	Radon Test Date	Radon Test Results
Nimitz	4027	4027 YEAGER DRIVE	28-Mar-05	3.9
Nimitz	4028	4028 YEAGER DRIVE	31-Mar-05	0.8
Nimitz	4034	4034 ATULE ST	28-Mar-05	2.8
Nimitz	4039	4039 THRESHER ST	28-Mar-05	2.1
Nimitz	4064	4064D REMORA COURT	28-Mar-05	0.9
Nimitz	4066	4066B REMORA COURT	28-Mar-05	0.8
Nimitz	4066	4066D REMORA COURT	28-Mar-05	0.9
Nimitz	4067	4067C REMORA COURT	28-Mar-05	0.9
Nimitz	4068	4068B REMORA COURT	28-Mar-05	1.2
Nimitz	4102	4102B NAUTILUS COURT	28-Mar-05	0.6
Nimitz	4104	4104A NAUTILUS COURT	28-Mar-05	1.7
Nimitz	4107	4107B SEAWOLF PL	28-Mar-05	<0.4
Nimitz	4112	4112C SKATE COURT	28-Mar-05	1.4
Nimitz	4114	4114A SKATE COURT	28-Mar-05	1.9
Nimitz	4115	4115B SHARK COURT	31-Mar-05	1.4
Nimitz	4123	4123A SARGO PL	31-Mar-05	<0.4
Nimitz	4123	4123D SARGO PL	31-Mar-05	<0.4
Nimitz	4129	4129C SARGO PL	31-Mar-05	2.5
Nimitz	4133	4133B SEADRAGON COURT	28-Mar-05	0.7
Nimitz	4135	4135B SKIPJACK PL	31-Mar-05	0.5
Nimitz	4142	4142B GRAYLING COURT	28-Mar-05	0.6
Nimitz	4143	4142A GRAYLING COURT	31-Mar-05	<0.4
Nimitz	4146	4146C SEAHORSE PL	28-Mar-05	0.4
Nimitz	4147	4147B SEAHORSE PL	28-Mar-05	0.5
Nimitz	4149	4149A SEAHORSE PL	28-Mar-05	1

ADDRESS	*RADON RESULTS (Pci/L)			COMMENTS
	** JAN-91	FEB-94	CY-2001	
Brick Row - Main Side				
A Perry St	6.1	4.9	3.1	No further action
J Perry St		4.8	2.4	No further action
Halsey Village				
1931Ranger Ct	5.5	1.8	2.7	No further action
Nimitz Village				
4102C Nautilus Ct	5.2	0.6		No further action
4124A Sargo Pl	4.2	1.2		No further action
Forrestal Village				
3181A Meridian Dr		4.0	2.0	No further action
2531 S. Admiral Dr		4.1	0.9	No further action
2717 E. Washington St		4.8	2.5	No further action
2384C Delaware Av		4.4	0.3	No further action
2387A Delaware Av		6.3	2.8	No further action
2436A New York Av		5.0	1.3	No further action
2439B New York Av		5.9	3.6	No further action
2440B New York Av	15.0	3.8	NR	No further action
2444A New York Av	4.9	1.8	NR	No further action
2453A Ohio Av		4.1	1.4	No further action
2457B Ohio Av		4.4	1.3	No further action
2457D Ohio Av		5.2	0.7	No further action
2461B Ohio Av		6.1	1.3	No further action
2463C Ohio Av		4.2	3.0	No further action
2479A Ohio Av		4.4	2.0	No further action
2636B Pennsylvania Av		8.5	2.8	No further action
2638A Pennsylvania Av		5.6	1.1	No further action
2830B Washington Av		5.0	0.4	No further action