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REPORT OF PHASE II ENVIRONMENTAL SITE ASSESSMENT FAMILY HOUSING PRIVATIZATION NSA CRANE IN
12/9/2005
MACTEC ENGINEERING AND CONSULTING, INC.

REPORT OF PHASE II ENVIRONMENTAL SITE ASSESSMENT NAVAL SUPPORT ACTIVITY CRANE NAVAL REGION MIDWEST FAMILY HOUSING PRIVATIZATION

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December 9, 2005

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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 reply 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) the United States of America, Department of the Navy, (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 (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, ANY PROFESSIONAL SERVICES PERFORMED, AND REPORTS ISSUED, PURSUANT TO THE AGREEMENT (BUT SPECIFICALLY EXCLUDING BODILY INJURY (INCLUDING DEATH), PROPERTY DAMAGE AND ANY OTHER CAUSES OF ACTION ARISING FROM SERVICES WHICH DO NOT INVOLVE THE EXERCISE OF PROFESSIONAL ENGINEERING OR ARCHITECTURAL EXPERTISE, DISCERNMENT, TRAINING OR JUDGMENT), 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 II Environmental Site Assessment (ESA) on a portion of the Naval Support Activity (NSA) Crane facility located approximately 25 miles southwest of Bloomington, within Martin, Greene and Lawrence Counties, in south-central Indiana, hereafter referred to as the subject property. This *Phase II Environmental Site Assessment Report* documents the activities performed during the Phase II ESA and presents findings and conclusions with regard to environmental impacts at the site.

The NSA Crane facility is located within three counties in south central, Indiana (Martin, Greene and Lawrence Counties), and is comprised of approximately 62,467 acres (97.6 square miles). An 800-acre man-made lake, Lake Greenwood, is located within the boundaries of NSA Crane. The subject property consists of 29 single-family residences at NSA Crane. The single family residences are located in the Greenwood Shores community including Quarters A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U and BB: The residences also include Farmhouses 2, 3, and 5; and Quarters X, Y, W, and Z located outside of Greenwood Shores on other parts of the facility.

The purpose of the Phase II ESA was to determine the potential environmental impacts to the subject property from conditions identified during a preliminary document review and a Phase I ESA performed by MACTEC (see *Report Of Phase I Environmental Site Assessment, Naval Support Activity Crane, Naval Region Midwest Family Housing Privatization,* dated November 1, 2005, prepared by MACTEC). The scope of work for this Phase II ESA is based on the findings of preliminary document review and the findings of the Phase I ESA.

Based upon the document review and the findings of the Phase I ESA, the Phase II ESA was performed at Quarters A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U and BB within the Greenwood Shores neighborhood and at Farmhouse 3 and Quarters X, Y, W, and Z located outside of Greenwood Shores neighborhood. These twenty-seven (27) residences were identified in the document review and confirmed during the Phase I ESA as those where abandoned-in-place heating oil underground storage tanks (USTs) are situated exterior to each of the houses. Although, evidence of the existence of such USTs at Quarters K, Q, and Z was not available, it was surmised that, based on the common date of construction for the housing, a UST may have been present at these residences at one time. Documentation concerning sampling and testing of soils in the vicinity of these abandoned USTs was not available during the document review process. No Phase II ESA activities were performed at Farmhouse 2 and Farmhouse 5 since no evidence of a former or abandoned UST at these locations was encountered and both of these residences will be demolished.

Onsite Phase II ESA activities were performed on August 30, August 31, September 2, and September 21, 2005. Phase II ESA activities consisted of soil sample collection and analysis for Indiana Department of Environmental Management (IDEM) indicator parameters for heating oil UST sites. Maps showing the locations of the USTs were not available in the documents reviewed. However, MACTEC used a magnetic detector to approximate the locations of the tanks. MACTEC generally performed three (3) soil borings at each UST site. With the exception of Quarters E, borings were not possible on each of the four (4) sides of the tanks due to the proximity of the tank to the house. At Quarters E, however, due to the assumed position of the tank in relation to the house, four (4) borings could be and were performed at this location. In addition, based upon the assumed position of the USTs, the buildings, and marked underground utilities at Quarters X and Z, access was possible to only two (2) sides of the USTs at these locations. Therefore, MACTEC performed a total of eighty (80) soil borings.

One (1) soil sample was collected from each of the eighty (80) soil borings performed at the twenty-seven (27) UST sites. Each sample was analyzed for IDEM heating oil UST indicator parameters: benzene, toluene, ethylbenzene, and xylenes (BTEX) and polynuclear aromatic hydrocarbons (PNAs). Only low levels of PNAs were detected in one (1) of the soil samples collected during the Phase II ESA and these concentrations were below the IDEM RISC residential closure levels. Based upon the analytical results and comparison of the testing results to IDEM RISC residential closure levels, MACTEC has determined that the presence of the abandoned or former residential heating oil USTs at the subject property does not appear to have affected the property. Thus, MACTEC recommends no further investigation at the subject property.

For the tanks located at the residential units that are scheduled for demolition, MACTEC recommends removal of the tanks by a qualified tank removal contractor to prevent any future impact to soils due to the possible presence of residual oil/liquid that could remain in these tanks. Further, MACTEC recommends in-field assessment of the soils in the tank areas upon removal. If visible evidence of soil impact is observed during tank removal, additional soil sampling and analysis may be warranted.

For the tanks located at the other residential units, MACTEC recommends removal of the tanks by a qualified tank removal contractor to prevent any future impact to soils due to the possible presence of residual oil/liquid that could remain in these tanks, but recognizes that the risk of additional impact is low, based upon the sampling results, and that tank removal may not be practical given the proximity of the tanks to the residential homes. If the tanks are removed, MACTEC recommends in-field assessment of the soils in the tank areas upon removal. If visible evidence of soil impact is observed during tank removal, additional soil sampling and analysis may be warranted.

1.0 INTRODUCTION

MACTEC Engineering and Consulting, Inc. (MACTEC) was contracted by Forest City Washington to perform a Phase II Environmental Site Assessment (ESA) on a portion of the Naval Support Activity (NSA) Crane facility located approximately 25 miles southwest of Bloomington, within Martin, Greene and Lawrence Counties, in south-central Indiana, hereafter referred to as the subject property. Figure 1 shows the site location. This *Phase II Environmental Site Assessment Report* documents the activities performed during the Phase II ESA and presents findings and conclusions with regard to environmental impacts at the site.

1.1 Purpose and Scope

The purpose of the Phase II ESA was to determine the potential environmental impacts to the subject property from conditions identified during a document review and a Phase I ESA performed by MACTEC (see *Report Of Phase I Environmental Site Assessment, Naval Support Activity Crane, Naval Region Midwest Family Housing Privatization,* dated November 1, 2005, prepared by MACTEC). The scope of work for this Phase II ESA is based on the findings of document review performed by MACTEC prior to the Phase I ESA and subsequent verification of the document review during the Phase I ESA.

Based upon the document review and the findings of the Phase I ESA, the Phase II ESA was performed at Quarters A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U and BB within the Greenwood Shores neighborhood and at Farmhouse 3 and Quarters X, Y, W, and Z located outside of Greenwood Shores neighborhood. These twenty-seven (27) residences were identified in the document review and confirmed during the Phase I ESA as those where abandoned-in-place heating oil underground storage tanks (USTs) are situated exterior to each of the houses. Although evidence of the existence of such USTs at Quarters K, Q, and Z was not available, it was surmised that, based on the common date of construction for the housing, a UST may have been present at these residences at one time. Documentation concerning sampling and testing of soils in the vicinity of these abandoned USTs was not available during the document review process. No Phase II ESA activities were performed at Farmhouse 2 and Farmhouse 5 since no evidence of a former or abandoned UST at these locations was encountered and both of these residences will be demolished.

Onsite Phase II ESA activities were performed on August 30, August 31, September 2, and September 21, 2005. Phase II ESA activities consisted of soil sample collection and analysis for Indiana Department of Environmental Management (IDEM) indicator parameters for heating oil UST sites. Analytical results are summarized on tables and sample locations are shown on figures included herein. Supporting documentation is included in Appendices as necessary.

1.2 Report Organization

The locations of the investigation areas are shown on Figure 2. Table 1 summarizes the scope of the Phase II ESA conducted at each site. Section 2.0 of this report presents a brief description of the background of the investigation areas and previous results based upon review of available documents. The field investigation procedures are described in Section 3.0. Section 4.0 contains a summary of the analytical results. Conclusions and Recommendations based on these results are presented in Sections 5.0 and 6.0, respectively. Section 7.0 contains a list of references used in the preparation of this report.

2.0 BACKGROUND

The NSA Crane facility is located within three counties in south central, Indiana (Martin, Greene and Lawrence Counties), and is comprised of approximately 62,467 acres (97.6 square miles). An 800-acre man-made lake, Lake Greenwood, is located within the boundaries of NSA Crane. The subject property consists of 29 single-family residences at NSA Crane. The single family residences are located in the Greenwood Shores community including Quarters A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U and BB: The residences also include Farmhouses 2, 3, and 5; and Quarters X, Y, W, and Z located outside of Greenwood Shores on other parts of the facility.

To focus our Phase II ESA on those portions of the subject property where the potential for environmental impact exists, MACTEC performed a preliminary review of a report entitled *Environmental Baseline Survey, Public/Private Venture Housing Privatization, Naval Support Activity Crane, Crane, Indiana* prepared for Naval Facilities Engineering Command, Southern Division, dated May 2004 (EBS). The purpose of the document review was to identify onsite or offsite areas of environmental concern. In addition, the Phase I ESA performed by MACTEC included a more comprehensive document review of environmental records related to the subject property (see *Report Of Phase I Environmental Site Assessment, Naval Support Activity Crane, Naval Region Midwest Family Housing Privatization,* dated November 1, 2005, prepared by MACTEC). Based on MACTEC's preliminary document review and findings of the Phase I ESA, which generally confirmed the findings of the preliminary document review, the following areas which warranted further investigation were identified.

2.1 Abandoned UST Sites

According to the EBS, residences at NSA Crane were historically heated with No. 2 fuel oil furnaces. Fuel was stored in USTs located outside along the perimeter of the structures. The USTs were reportedly approximately 564 gallons in capacity and were abandoned in place in 2001. Tank abandonment records were noted, and were provided in the EBS, for twenty-one (21) of the residences including Quarters A, C, E, F, G, H, I, J, L, M, N, O, P, R, S, T, U and BB within the Greenwood Shores neighborhood and Farmhouse 3 and Quarters X, and Quarters Y located outside of Greenwood Shores neighborhood. Abandonment records were not provided in the EBS for Quarters B, D, K, Q, W, Z, and Farmhouses 2 and 5. The EBS indicated that no records showing confirmatory soil sampling had been discovered.

During the Phase I ESA site inspection, MACTEC observed vent pipes at each of the houses on the subject property with the exception of the Quarters K, Q, and Z; and Farmhouses 2 and 5. An UST Inventory Volume 3, dated October 2001, provided by NSA Crane, which contains a tank abandonment record for all of those contained in the EBS and for Quarters B, indicates that the USTs were installed exterior to each of the houses at the subject property in 1941 to fuel the residential heating systems. The 564-gallon fuel oil tanks were filled with sand and abandoned-in-place. The vent pipe remains at each house where a UST was abandoned. Based on information received from Navy personnel, the UST systems were likely closed in the 1980s. Based upon the common date of construction for the housing, it is possible that USTs were also in use at one time at the other residences for which more definite evidence is not available. These potential USTs could have been removed from those locations and that is why no vent pipe was left to identify the tank location; or it is possible that the UST was sand-filled and abandoned-in-place and the vent pipe was removed. The houses at the subject property are currently heated via natural gas fueled systems. During the Phase I ESA, no information was provided indicating any soil testing was performed at the time the USTs were closed.

2.2 Site Geology/Hydrogeology

As discussed in MACTEC's Phase I ESA Report (MACTEC, 2005), the underlying bedrock at NSA Crane is comprised of lower Pennsylvanian and upper Mississippian age sandstones, limestones, and shales. The Chester Formation of Mississippian age rock is exposed within deeply incised valleys and ravines at NSA Crane. The Pennsylvanian age Mansfield Formation (consisting of sandstone, siltstone, claystone, and shale) is found at the crests of hills and ridges in the eastern portion of the installation, and forms the surficial bedrock material of the western portion of the NSA Crane. Caves, shafts, and sinkholes occur primarily in the eastern portions of the facility, where Mississippian age limestones are found near the surface. The remainder of the installation is underlain by Pennsylvanian age massive sandstone and evenly bedded limestones, shales, and coal. Deposits of coal are relatively abundant and are evident in northeastern and southeastern portions of the installation.

Four types of soils occur at NSA Crane: Wellston-Gilpin Association, Wellstone-Berks-Gilpin Association, Wellston-Berks-Ebal Association, and Wekeland-Wilbur-Haymond Association. The Wellston-Gilpin Association occurs primarily on the western half of the installation and consists of deep and moderately deep, gently sloping to very steep, well-drained soils.

The soils located at the subject property are identified within the Wellston-Gilpin Association. The soils are approximately 60 percent Wellstone soil and 30 percent Gilpin soil. The surface layer is typically very dark, grayish brown channery silt loam, about four inches thick. The subsoil is about 27 inches thick. Available water capacity is high in the Wellston soil and low in the Gilpin soil. Permeability is moderate in both soils and surface runoff is medium. These soils are well suited to trees.

NSA Crane has no major rivers or major floodplains and the area is drained by small streams. Six creeks (First, Sulphur, Little Sulphur, Boggs, Turkey, and Seed Creek) dissect NSA Crane and divide the installation into four major watersheds. Surface water drainage predominately exhibits a southerly trend with creeks at the installation eventually draining into the White River and then to the Wabash River.

The 820-acre man-made Lake Greenwood is drained by First Creek, and is the largest lake on NSA Crane. Lake Greenwood is used for potable water, flood control, and recreation. Lake Greenwood is the nearest body of water to the subject property buildings located in the Greenwood Shores Community, as well as Quarter W and Z. Quarters X, Y and Farmhouse are located adjacent to intermittent streams which run throughout NSA Crane.

Groundwater in the region of NSA Crane is found in two aquifers, the Mitchell Limestone and the Mansfield Sandstone. Groundwater enters the two main aquifers through outcrops and gravity flows to the southwest. Groundwater on NSA Crane is not abundant and is not used for public supply. Shallow groundwater is reported to mimic local topography. Deep groundwater is generally greater than 80 feet below ground surface and typically flows in a westerly direction throughout NSA Crane.

3.0 FIELD INVESTIGATION

The Phase II ESA consisted of collecting subsurface soil samples at each of those residences with known abandoned USTs or suspected former USTs as identified during MACTEC's preliminary document review and during the Phase I ESA. The Phase II ESA investigation was performed during August and September 2005. The Phase II ESA was performed using the procedures described below. Representative photographs of the soil sampling activities are provided in Appendix A.

3.1 Boring and Underground Utility Location Procedures

Prior to commencement of any intrusive activities, MACTEC visited the site to locate borings so that underground utilities could be marked out in the areas. Initially, each residence was scanned with a magnetometer to verify the approximate position of the UST to position suitable soil boring locations. For those residences with a visible vent pipe, magnetometer scanning was conducted on the side of the building with the vent pipe. In each case, strong magnetic signals were detected on the instrument indicating the presence of an underground metallic object. Generally, other buried utilities were located along the same side of the buildings as the tanks. Therefore, the presence of buried utilities in these areas also were probably detected by the magnetometer. Consequently, the UST position was considered approximate and soil boring locations were selected to be as close as possible to the approximate tank location based upon the magnetometer readings. For those residences with no visible vent pipe and no abandonment record indicating UST location, each exterior side of the building was scanned with a magnetometer. In each case, no definitive strong magnetic signals were detected to indicate the presence of a UST. For those sites where no UST could be identified, soil boring locations were selected to be where a former UST may have been given the position of other visible utilities. The physical location of the proposed soil borings were marked with white spray paint and white wire flags for utility mark-out purposes.

Underground utility location at NSA Crane is coordinated through the facility's internal utility locating system. Both onsite Navy personnel and offsite private utility companies may perform marking of underground utilities. Upon completion of the marking of the proposed boring locations, MACTEC notified the facility's internal utility coordination team who initiated the utility mark-out process and prepared Dig Permits for the sites. Copies of these Dig Permits are included in Appendix B.

3.2 Soil Sampling Procedures

3.2.1 Subsurface Soil - Geoprobe®

All subsurface soil samples submitted for laboratory analysis were collected using a Geoprobe® rig provided by American Drilling Services, Inc., of Indianapolis, Indiana. The Geoprobe® rig was equipped with a four-foot long stainless-steel sampler lined with a new plastic liner (for each sample interval). Soil samples were collected continuously. A MACTEC geologist or engineer visually logged the soil samples from each location using the Unified Soil Classification System. Test Boring Records are contained in Appendix C. Additionally, headspace samples were collected for measurement of total organic vapors by placing a small volume of each 2-foot soil sample increment into a zip-lock bag. The bag was sealed to allow any vapors in the soil to come into equilibrium with the air in the bag. The sample was then screened by piercing the bag with the tip of a photoionization detector (PID). The highest PID response was then recorded on the boring log. The soil sample selected for laboratory analysis at each sampling location was based on the head space PID readings, visual observations (i.e. staining), or depth. If PID readings were not detected and there was no visible staining, then a soil sample was selected based on

depth below ground surface. A new pair of nitrile gloves was donned by the MACTEC geologist/engineer between each sampling location. Upon completion of sampling, each Geoprobe® borehole was backfilled with soil cuttings and/or granular bentonite. Sampler decontamination procedures are discussed below. If a stainless steel trowel or spoon was used to assist in sample collection, it was decontaminated as described below.

3.2.2 Sample Handling Procedures

Soil samples were collected in laboratory-supplied, USEPA-approved four-ounce glass sample jars. Volatile organic soil sample collection procedures conformed to SW-846 Method 5035 "Closed System Purge and Trap and Extraction for Volatile Organics in Soil and Waste Sample." To reduce the possibility of cross contamination between samples, a new pair of disposable latex gloves was donned by the sampler for each sample collected. Upon collection, the sample jars were labeled with the site name, sample number, date, time, and sampler initials, were sealed in Ziploc bags, and were placed in an iced cooler. A chain-of-custody form was updated as samples were collected. Samples were submitted to the laboratory on a daily basis. For all sampling events, analytical services were provided by STAT Analysis Corporation (STAT) of Chicago, Illinois under direct contract by MACTEC. Samples were hand-delivered to the laboratory by the MACTEC sampler under a completed chain of custody form. Laboratory Reports are contained in Appendix C.

3.2.3 Equipment Decontamination Procedures

Soil sampling equipment was decontaminated by washing in an Alconox detergent and potable water solution, rinsing with potable water, and then final rinsing with distilled water. In addition, a new single-use, disposable plastic liner was used for each sample interval collected using the Geoprobe® rig.

3.3 Investigation-Derived Wastes

All leftover soils were placed back into boreholes. Bentonite chips were placed into the boreholes to make up any deficit. All acetate sleeves and used gloves were taken offsite and disposed in municipal trash receptacles.

3.4 Area-Specific Procedures

The investigation performed for the Phase II ESA at each area of concern is described in this section. Table 1 summarizes the Phase II scope of work performed at each of the sites. The location of Phase II ESA areas are shown on Figure 2.

As stated in Section 2.0, the preliminary document review and Phase I ESA indicated that Phase II ESA activities were warranted at Quarters A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U and BB within the Greenwood Shores neighborhood and at Farmhouse 3 and Quarters X, Y, W, and Z located outside of Greenwood Shores neighborhood since previous soil sampling was not performed. These twenty-seven (27) residences were identified in the document review and confirmed during the Phase I ESA as those where abandoned-in-place heating oil underground storage tanks (USTs) are situated exterior to each of the houses. Although, evidence of the existence of such USTs at Quarters K, Q, and Z was not available, it was surmised that, based on the common date of construction for the housing, a UST may have been present at these residences at one time. Documentation concerning sampling and testing of soils in the vicinity of these abandoned USTs was not available during the document review process.

Onsite Phase II ESA activities were performed on August 30, August 31, September 2, and September 21, 2005. Phase II ESA activities consisted of soil sample collection and analysis for Indiana Department of Environmental Management (IDEM) indicator parameters for heating oil UST sites. To assess the

condition of the soil at the known or suspected UST locations, MACTEC generally performed three (3) soil borings at each site. Boring locations are shown on Figures 3, 4, 5, and 6. With the exception of Quarters E, borings were not possible on each of the four (4) sides of the tanks due to the proximity of the tank to the house. At Quarters E, however, due to the assumed position of the tank in relation to the house, four (4) borings could be and were performed. In addition, based upon the assumed position of the USTs, the buildings, and marked underground utilities at Quarters X and Z, access was possible to only two (2) sides of the USTs at these locations. The second boring at Quarters X was mis-labeled as X-3, not X-2. There is no boring labeled X-2. Therefore, MACTEC performed a total of eighty (80) soil borings. One (1) soil sample was collected from each of the eighty (80) soil borings performed at the twenty-seven (27) UST sites. Each sample was analyzed for IDEM heating oil UST indicator parameters: benzene, toluene, ethylbenzene, and xylenes (BTEX) using USEPA Test Method 5035/8260B and polynuclear aromatic hydrocarbons (PNAs) using USEPA Test Method 8270C.

MACTEC attempted to advance each boring to 8 feet bgs, which is 1 to 2 feet below the maximum expected depth of USTs of this size. However, as shown on the Test Boring Records, twenty-two (22) borings were terminated at depths of less than 8 feet due to Geoprobe® sampler refusal by apparent bedrock, boulders, or excessively dense soils. In addition, during drilling of one (1) boring at Quarters A, the sampler came in contact with an apparent obstruction at approximately 3 feet bgs. This was not unusual as difficult drilling and/or sampler refusal had been encountered in other borings. Often the obstructions yielded to the sampler as it was further advanced. Therefore, drilling continued in an attempt to get through the apparent obstruction, but suddenly the sampler advanced with much less resistance as if potentially encountering a void. Upon removal of the sampler, there was less than 1 foot of recovered soil, but a small amount of water was observed on the sampler and a slight petroleum odor was noted. Since there were no underground utilities marked at this attempted boring location; there was very little soil recovered; and water was observed on the sampler, MACTEC suspects that the sampler may have contacted and pierced the top of the UST. No release of the liquid into the surrounding soil was observed and the resulting boring was immediately backfilled with bentonite chips. The boring (A-3) was re-located approximately 2 to 3 feet away from the attempted boring location and the re-located boring was completed to a depth of 8 feet bgs without encountering any obstructions.

4.0 RESULTS

The results of the Phase II ESA are presented in this section. Analytical results of the samples collected for the Phase II ESA are summarized on Table 2. Analytical results included in these tables are compared to the IDEM's residential closure levels found in Appendix 1, Table A, dated January 1, 2004 (Updated) of the Risk Integrated System of Closure (RISC) Technical Guide. These RISC residential closure levels included 1) Default Closure Levels, 2) Construction Workers, 3) Soil Direct [contact], and 4) Migration to Groundwater. For all of the BTEX and PNA compounds, the lowest of the closure levels in these four (4) categories were the default closure levels, which, in many cases, was the same as the closure levels in the migration to groundwater category. The complete analytical data packages from the laboratory are included in Appendix D.

Of the eighty (80) subsurface soil samples collected for laboratory analysis, contaminants were only detected in only one (1) sample, W-3, the sample collected on the west side of the suspected UST location at Quarters W. Two PNAs, fluoranthene and fluorene, were detected in this sample at 0.032 milligrams per kilogram (mg/kg) and 0.033 mg/kg, respectively. Both detected concentrations were below the RISC residential closure levels to which they were compared. The lowest residential closure levels for these compounds is the Default Closure Levels of 880 mg/kg for fluoranthene and 570 mg/kg for fluorene.

5.0 CONCLUSIONS

Based upon the analytical testing of soil samples collected during the Phase II ESA, and comparison of the testing results to the IDEM RISC residential closure levels, MACTEC has determined that the presence of the abandoned or former residential heating oil USTs at the subject property does not appear to have affected the property at this time.

6.0 RECOMMENDATIONS

Based upon the conclusions presented in the preceding section, MACTEC recommends no further investigation be performed at the subject property at this time.

For the tanks located at the residential units that are scheduled for demolition, MACTEC recommends removal of the tanks by a qualified tank removal contractor to prevent any future impact to soils due to the possible presence of residual oil/liquid that could remain in these tanks. Further, MACTEC recommends in-field assessment of the soils in the tank areas upon removal. If visible evidence of soil impact is observed during tank removal, additional soil sampling and analysis may be warranted.

For the tanks located at the other residential units, MACTEC recommends removal of the tanks by a qualified tank removal contractor to prevent any future impact to soils due to the possible presence of residual oil/liquid that could remain in these tanks, but recognizes that the tank removal may not be practical given their proximity to the structures. If the tanks are removed, MACTEC recommends in-field assessment of the soils in the tank areas upon removal. If visible evidence of soil impact is observed during tank removal, additional soil sampling and analysis may be warranted.

7.0 REFERENCES

- MACTEC Engineering and Consulting, Inc., *Report Of Phase I Environmental Site Assessment, Naval Support Activity Crane, Naval Region Midwest Family Housing Privatization,* dated November 1, 2005.

- *Environmental Baseline Survey, Public/Private Venture Housing Privatization, Naval Support Activity Crane, Crane, Indiana* prepared for Naval Facilities Engineering Command, Southern Division, North Charleston, South Carolina, dated May 2004.

Tables

TABLE 1
SUMMARY OF PHASE II ESA SCOPE OF WORK

NSA Crane
Crane, Indiana

No.	Quarters	Location	Tank Data Sheet (Y/N)	Vent Line Visible (Y/N)	Geoprobe Scope
RESIDENCES TO REMAIN					
1	A	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
2	B	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
3	BB	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
4	C	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
5	D	Greenwood	N	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
6	E	Greenwood	Y	Y	4 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
7	F	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
8	G	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
9	H	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
10	I	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
11	J	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
12	K	Greenwood	N	N	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
13	L	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
14	M	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
15	N	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
16	O	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
17	P	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
18	Q	Greenwood	N	N	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
19	R	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
20	S	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
21	T	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
22	U	Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
23	W	Outside of Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
24	Z	Outside of Greenwood	N	N	2 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
RESIDENCES TO BE DEMOLISHED					
1	X	Outside of Greenwood	Y	Y	2 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
2	Y	Outside of Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
3	FH2	Outside of Greenwood	N	N	NO PHASE II WORK
4	FH3	Outside of Greenwood	Y	Y	3 GP borings to 8 feet bgs. 1 sample per boring based upon PID readings for BTEX and PNAs.
5	FH5	Outside of Greenwood	N	N	NO PHASE II WORK

Notes:

Y	Yes	FH	Farmhouse
N	No	PID	Photoionization Detector
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes	bgs	Below Ground Surface
PNAs	Polynuclear Aromatic Hydrocarbons	GP	Geoprobe®

TABLE 2

SUMMARY OF SOIL ANALYTICAL DATA - ABANDONED RESIDENTIAL UST SITES

CRANE NWSC
CRANE, INDIANA

Sample ID Sample Depth (feet) Location Sample Date Parameter	Units	A1 4'-6' 8/30/05	A2 4'-6' 8/30/05	A3 4'-6' 9/21/05	B1 2'-4' 8/30/05	B2 6'-8' 8/30/05	B3 4'-6' 9/21/05	C1 4'-6' 8/30/05	C2 6'-8' 8/30/05	C3 4'-6' 9/21/05	RISC Residential Closure Levels Default Closure Level (1)	Construction (2)	Soil Direct (3)	Migration To Groundwater (4)
VOLATILES														
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.034	560.00	7.80	0.034
Toluene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	11,000	1,700	12
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	29,000	4,600	13
Xylenes, Total	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	4,800	690	210
POLYNUCLEAR AROMATIC HYDROCARBONS														
Acenaphthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	50,000	9,500	130
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	5900	1,100	18
Anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	51	250,000	47,000	51
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	790	5	19
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	82
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7,900	5	82
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	7,900	50	16
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	39	7,900	50	39
Chrysene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	25	79,000	500	25
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	18
Fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	880	33,000	6,300	880
Fluorene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	33,000	6,300	170
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1	790	5	3.1
Naphthalene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	17,000	3,200	0.7
Phenanthrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	2,500	470	13
Pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	570	25,000	4,700	570

Notes:

(1):	Default Closure Level for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(2):	Construction Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(3):	Soil Direct Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(4):	Migration to Groundwater Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
mg/kg	Milligram per kilogram
BOLD	Laboratory Analytical Detection
ND	Non-detect at laboratory detection limit
RISC	Risk Integrated System of Closure

Prepared by: JFN
Checked by: DEN

TABLE 2

SUMMARY OF SOIL ANALYTICAL DATA - ABANDONED RESIDENTIAL UST SITES

CRANE NWSC
CRANE, INDIANA

Sample ID / Sample Depth (feet) / Location / Sample Date / Parameter	Units	D1 6'-8' 8/30/05	D2 6'-8' 8/30/05	D3 4'-6' 8/30/05	E1 0'-2' 8/31/05	E2 0'-2' 8/31/05	E3 4'-6' 8/31/05	E4 6'-8' 8/31/05	F1 4'-6' 8/31/05	F2 4'-6' 9/21/05	F3 4'-6' 9/21/05	RISC Residential Closure Levels: Default Closure Level (1)	Construction (2)	Soil Direct (3)	Migration To Groundwater (4)
VOLATILES															
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.034	560.00	7.80	0.034
Toluene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	11,000	1,700	12
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	29,000	4,600	13
Xylenes, Total	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	4,800	690	210
POLYNUCLEAR AROMATIC HYDROCARBONS															
Acenaphthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	50,000	9,500	130
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	5900	1,100	18
Anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	51	250,000	47,000	51
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	790	5	19
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	82
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7,900	5	82
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	7,900	50	16
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	39	7,900	50	39
Chrysene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25	79,000	500	25
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	18
Fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	880	33,000	6,300	880
Fluorene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	33,000	6,300	170
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1	790	5	3.1
Naphthalene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	17,000	3,200	0.7
Phenanthrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	2,500	470	13
Pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	570	25,000	4,700	570

Notes:

(1):	Default Closure Level for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(2):	Construction Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(3):	Soil Direct Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(4):	Migration to Groundwater Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
mg/kg	Milligram per kilogram
BOLD	Laboratory Analytical Detection
ND	Non-detect at laboratory detection limit
RISC	Risk Integrated System of Closure

Prepared by: JFN
Checked by: DEN

TABLE 2

SUMMARY OF SOIL ANALYTICAL DATA - ABANDONED RESIDENTIAL UST SITES

CRANE NWSC
CRANE, INDIANA

Sample ID / Sample Depth (feet) / Location / Sample Date / Parameter	Units	G1 6'-8' 8/31/05	G2 6'-8' 9/21/05	G3 6'-8' 9/21/05	H1 6'-8' 8/31/05	H2 6'-8' 8/31/05	H3 6'-8' 8/31/05	I1 2'-4' 8/31/05	I2 4'-6' 8/31/05	I3 4'-6' 9/21/05	RISC Residential Closure Levels: Default Closure Level (1)	Construction (2)	Soil Direct (3)	Migration To Groundwater (4)
VOLATILES														
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.034	560.00	7.80	0.034
Toluene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	11,000	1,700	12
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	29,000	4,600	13
Xylenes, Total	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	4,800	690	210
POLYNUCLEAR AROMATIC HYDROCARBONS														
Acenaphthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	50,000	9,500	130
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	5900	1,100	18
Anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	51	250,000	47,000	51
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	790	5	19
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	82
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7,900	5	82
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	7,900	50	16
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	39	7,900	50	39
Chrysene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	25	79,000	500	25
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	18
Fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	880	33,000	6,300	880
Fluorene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	33,000	6,300	170
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1	790	5	3.1
Naphthalene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	17,000	3,200	0.7
Phenanthrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	2,500	470	13
Pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	570	25,000	4,700	570

Notes:

(1):	Default Closure Level for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(2):	Construction Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(3):	Soil Direct Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(4):	Migration to Groundwater Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
mg/kg	Milligram per kilogram
BOLD	Laboratory Analytical Detection
ND	Non-detect at laboratory detection limit
RISC	Risk Integrated System of Closure

Prepared by: JFN
Checked by: DEN

TABLE 2

SUMMARY OF SOIL ANALYTICAL DATA - ABANDONED RESIDENTIAL UST SITES

CRANE NWSC
CRANE, INDIANA

Sample ID / Sample Depth (feet) / Location / Sample Date / Parameter	Units	J1 6'-8' 8/31/05	J2 4'-6 8/31/05	J3 4'-6 9/21/05	K1 6'-8' 8/31/05	K2 6'-8' 8/31/05	K3 6'-8' 8/31/05	L1 6'-8' 8/31/05	L2 6'-8' 8/31/05	L3 6'-8' 9/21/05	RISC Residential Closure Levels: Default Closure Level (1)	Construction (2)	Soil Direct (3)	Migration To Groundwater (4)
VOLATILES														
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.034	560.00	7.80	0.034
Toluene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	11,000	1,700	12
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	29,000	4,600	13
Xylenes, Total	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	4,800	690	210
POLYNUCLEAR AROMATIC HYDROCARBONS														
Acenaphthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	50,000	9,500	130
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	5900	1,100	18
Anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	51	250,000	47,000	51
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	790	5	19
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	82
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7,900	5	82
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	7,900	50	16
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	39	7,900	50	39
Chrysene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	25	79,000	500	25
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	18
Fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	880	33,000	6,300	880
Fluorene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	33,000	6,300	170
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1	790	5	3.1
Naphthalene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	17,000	3,200	0.7
Phenanthrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	2,500	470	13
Pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	570	25,000	4,700	570

Notes:

(1):	Default Closure Level for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(2):	Construction Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(3):	Soil Direct Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(4):	Migration to Groundwater Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
mg/kg	Milligram per kilogram
BOLD	Laboratory Analytical Detection
ND	Non-detect at laboratory detection limit
RISC	Risk Integrated System of Closure

Prepared by: JFN
Checked by: DEN

TABLE 2

SUMMARY OF SOIL ANALYTICAL DATA - ABANDONED RESIDENTIAL UST SITES

CRANE NWSC
CRANE, INDIANA

Sample ID / Sample Depth (feet) / Location / Sample Date / Parameter	Units	M1 4'-6' 8/31/05	M2 4'-6' 9/21/05	M3 6'-8' 9/21/05	N1 6'-8' 8/31/05	N2 4'-6' 9/21/05	N3 6'-8' 9/21/05	O1 6'-8' 8/31/05	O2 4'-6' 8/31/05	O3 6'-8' 9/21/05	RISC Residential Closure Levels: Default Closure Level (1)	Construction (2)	Soil Direct (3)	Migration To Groundwater (4)
VOLATILES														
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.034	560.00	7.80	0.034
Toluene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	11,000	1,700	12
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	29,000	4,600	13
Xylenes, Total	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	4.800	690	210
POLYNUCLEAR AROMATIC HYDROCARBONS														
Acenaphthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	50,000	9,500	130
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	5900	1,100	18
Anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	51	250,000	47,000	51
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	790	5	19
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	82
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7,900	5	82
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	7,900	50	16
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	39	7,900	50	39
Chrysene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	25	79,000	500	25
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	18
Fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	880	33,000	6,300	880
Fluorene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	33,000	6,300	170
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1	790	5	3.1
Naphthalene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	17,000	3,200	0.7
Phenanthrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	2,500	470	13
Pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	570	25,000	4,700	570

Notes:

(1):	Default Closure Level for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(2):	Construction Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(3):	Soil Direct Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(4):	Migration to Groundwater Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
mg/kg	Milligram per kilogram
BOLD	Laboratory Analytical Detection
ND	Non-detect at laboratory detection limit
RISC	Risk Integrated System of Closure

Prepared by: JFN
Checked by: DEN

TABLE 2

SUMMARY OF SOIL ANALYTICAL DATA - ABANDONED RESIDENTIAL UST SITES

CRANE NWSC
CRANE, INDIANA

Sample ID / Sample Depth (feet) / Location / Sample Date / Parameter	Units	P1 6'-8' 9/1/05	P2 6'-8' 9/1/05	P3 6'-8' 9/21/05	Q1 4'-6' 9/1/05	Q2 6'-8' 9/1/05	Q3 6'-8' 9/1/05	R1 6'-8' 9/1/05	R2 6'-8' 9/1/05	R3 4'-6' 9/21/05	RISC Residential Closure Levels: Default Closure Level (1)	Construction (2)	Soil Direct (3)	Migration To Groundwater (4)
VOLATILES														
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.034	560.00	7.80	0.034
Toluene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	11,000	1,700	12
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	29,000	4,600	13
Xylenes, Total	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	4,800	690	210
POLYNUCLEAR AROMATIC HYDROCARBONS														
Acenaphthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	50,000	9,500	130
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	5900	1,100	18
Anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	51	250,000	47,000	51
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	790	5	19
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	82
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7,900	5	82
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	7,900	50	16
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	39	7,900	50	39
Chrysene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	25	79,000	500	25
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	18
Fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	880	33,000	6,300	880
Fluorene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	33,000	6,300	170
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1	790	5	3.1
Naphthalene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	17,000	3,200	0.7
Phenanthrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	2,500	470	13
Pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	570	25,000	4,700	570

Notes:

(1):	Default Closure Level for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(2):	Construction Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(3):	Soil Direct Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(4):	Migration to Groundwater Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
mg/kg	Milligram per kilogram
BOLD	Laboratory Analytical Detection
ND	Non-detect at laboratory detection limit
RISC	Risk Integrated System of Closure

Prepared by: JFN
Checked by: DEN

TABLE 2

SUMMARY OF SOIL ANALYTICAL DATA - ABANDONED RESIDENTIAL UST SITES

CRANE NWSC
CRANE, INDIANA

Sample ID / Sample Depth (feet) / Location / Sample Date / Parameter	Units	S1 4'-6' 8/31/05	S2 6'-8' 8/31/05	S3 6'-8' 8/31/05	T1 6'-8' 9/1/05	T2 6'-8' 9/1/05	T3 4'-6' 9/21/05	U1 6'-8' 9/1/05	U2 6'-8' 9/1/05	U3 6'-8' 9/1/05	RISC Residential Closure Levels: Default Closure Level (1)	Construction (2)	Soil Direct (3)	Migration To Groundwater (4)
VOLATILES														
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.034	560.00	7.80	0.034
Toluene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	11,000	1,700	12
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	29,000	4,600	13
Xylenes, Total	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	4,800	690	210
POLYNUCLEAR AROMATIC HYDROCARBONS														
Acenaphthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	50,000	9,500	130
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	5900	1,100	18
Anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	51	250,000	47,000	51
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	790	5	19
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	82
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7,900	5	82
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	7,900	50	16
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	39	7,900	50	39
Chrysene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	25	79,000	500	25
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	18
Fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	880	33,000	6,300	880
Fluorene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	33,000	6,300	170
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1	790	5	3.1
Naphthalene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	17,000	3,200	0.7
Phenanthrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	2,500	470	13
Pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	570	25,000	4,700	570

Notes:

(1):	Default Closure Level for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(2):	Construction Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(3):	Soil Direct Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(4):	Migration to Groundwater Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
mg/kg	Milligram per kilogram
BOLD	Laboratory Analytical Detection
ND	Non-detect at laboratory detection limit
RISC	Risk Integrated System of Closure

Prepared by: JFN
Checked by: DEN

TABLE 2

SUMMARY OF SOIL ANALYTICAL DATA - ABANDONED RESIDENTIAL UST SITES

CRANE NWSC
CRANE, INDIANA

Sample ID / Sample Depth (feet) / Location / Sample Date / Parameter	Units	W1 0'-2' 8/30/05	W2 6'-8' 8/30/05	W3 2'-4' 8/30/05	X1 6'-8' 8/30/05	X3 6'-8' 9/21/05	Y1 4'-6' 8/30/05	Y2 2'-4' 8/30/05	Y3 2'-4' 8/30/05	Z1 6'-8' 9/1/05	Z2 6'-8' 9/1/05	RISC Residential Closure Levels: Default Closure Level (1)	Construction (2)	Soil Direct (3)	Migration To Groundwater (4)
VOLATILES															
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.034	560.00	7.80	0.034
Toluene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	11,000	1,700	12
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	29,000	4,600	13
Xylenes, Total	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	4,800	690	210
POLYNUCLEAR AROMATIC HYDROCARBONS															
Acenaphthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	50,000	9,500	130
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	5900	1,100	18
Anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	51	250,000	47,000	51
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	790	5	19
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	82
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7,900	5	82
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	7,900	50	16
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	39	7,900	50	39
Chrysene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25	79,000	500	25
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	79	0.5	18
Fluoranthene	mg/kg	ND	ND	**0.032**	ND	ND	ND	ND	ND	ND	ND	880	33,000	6,300	880
Fluorene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	33,000	6,300	170
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1	790	5	3.1
Naphthalene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	17,000	3,200	0.7
Phenanthrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	2,500	470	13
Pyrene	mg/kg	ND	ND	**0.033**	ND	ND	ND	ND	ND	ND	ND	570	25,000	4,700	570

Notes:

(1):	Default Closure Level for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(2):	Construction Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(3):	Soil Direct Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(4):	Migration to Groundwater Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
mg/kg	Milligram per kilogram
BOLD	Laboratory Analytical Detection
ND	Non-detect at laboratory detection limit
RISC	Risk Integrated System of Closure

Prepared by: JFN
Checked by: DEN

TABLE 2

SUMMARY OF SOIL ANALYTICAL DATA - ABANDONED RESIDENTIAL UST SITES

CRANE NWSC
CRANE, INDIANA

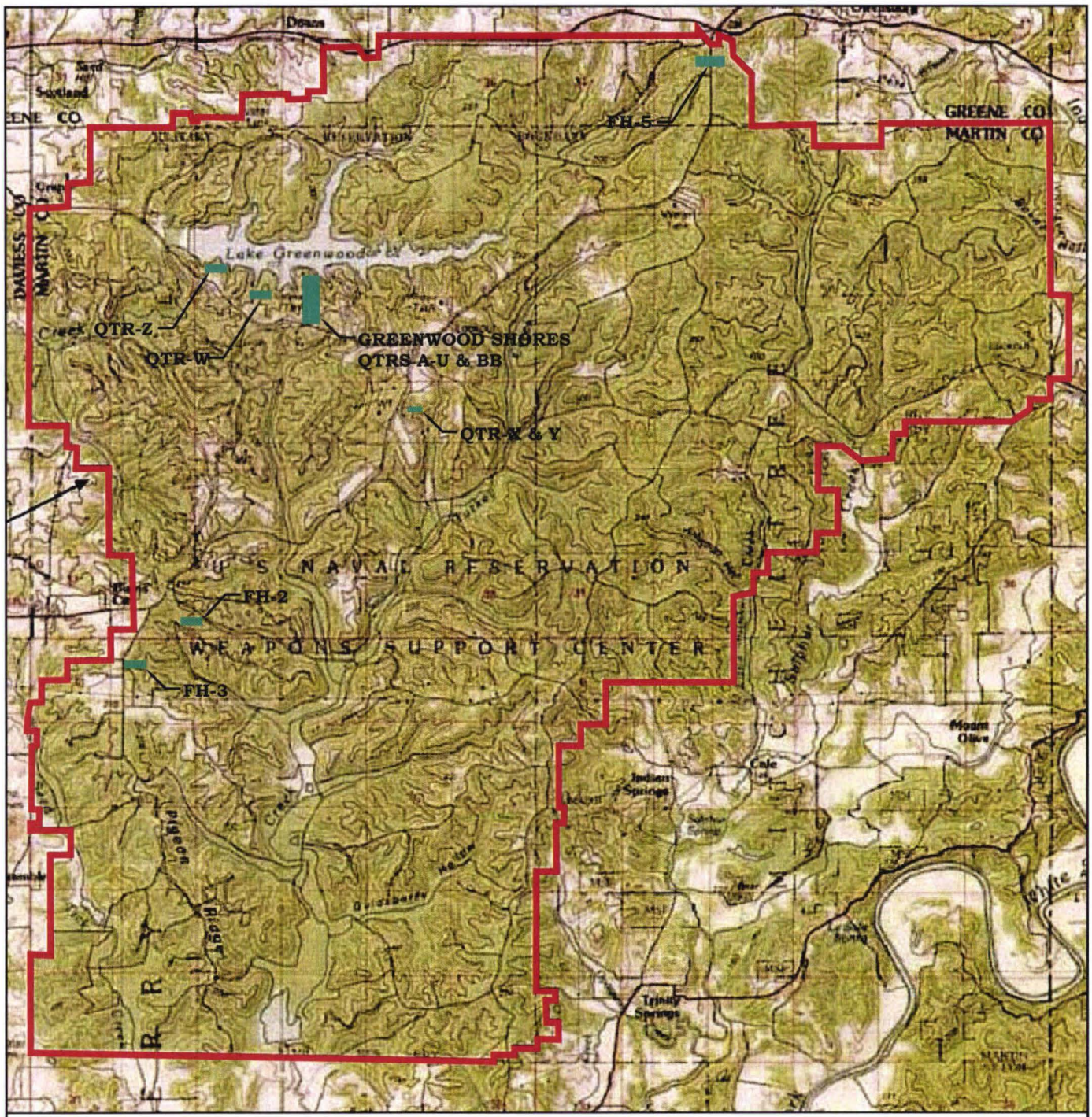
Sample ID / Sample Depth (feet) / Location / Sample Date / Parameter	Units	BB1 2'-4' 8/31/05	BB2 2'-4' 8/31/05	BB3 0'-2' 8/31/05	FH3-1 6'-8' 8/30/05	FH3-2 4'-6' 8/30/05	FH3-3 6'-8' 8/30/05	RISC Residential Closure Levels: Default Closure Level (1)	Construction (2)	Soil Direct (3)	Migration To Groundwater (4)
VOLATILES											
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	0.034	560.00	7.80	0.034
Toluene	mg/kg	ND	ND	ND	ND	ND	ND	12	11,000	1,700	12
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	13	29,000	4,600	13
Xylenes, Total	mg/kg	ND	ND	ND	ND	ND	ND	170	4,800	690	210
POLYNUCLEAR AROMATIC HYDROCARBONS											
Acenaphthene	mg/kg	ND	ND	ND	ND	ND	ND	130	50,000	9,500	130
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	18	5900	1,100	18
Anthracene	mg/kg	ND	ND	ND	ND	ND	ND	51	250,000	47,000	51
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	5	790	5	19
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	0.5	79	0.5	82
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	5	7,900	5	82
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	ND	16	7,900	50	16
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	39	7,900	50	39
Chrysene	mg/kg	ND	ND	ND	ND	ND	ND	25	79,000	500	25
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	0.5	79	0.5	18
Fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	880	33,000	6,300	880
Fluorene	mg/kg	ND	ND	ND	ND	ND	ND	170	33,000	6,300	170
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	3.1	790	5	3.1
Naphthalene	mg/kg	ND	ND	ND	ND	ND	ND	0.7	17,000	3,200	0.7
Phenanthrene	mg/kg	ND	ND	ND	ND	ND	ND	13	2,500	470	13
Pyrene	mg/kg	ND	ND	ND	ND	ND	ND	570	25,000	4,700	570

Notes:

(1):	Default Closure Level for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(2):	Construction Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(3):	Soil Direct Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
(4):	Migration to Groundwater Objective for Residential Properties, IDEM RISC Technical Guide - Appendix 1, Table A, dated January 1, 2004
mg/kg	Milligram per kilogram
BOLD	Laboratory Analytical Detection
ND	Non-detect at laboratory detection limit
RISC	Risk Integrated System of Closure

Prepared by: JFN
Checked by: DEN

Figures



KEY

= Approximate Site Boundary

= Approximate Quarters & Farmhouse Locations

N

MACTEC
Engineering and Consulting, Inc.

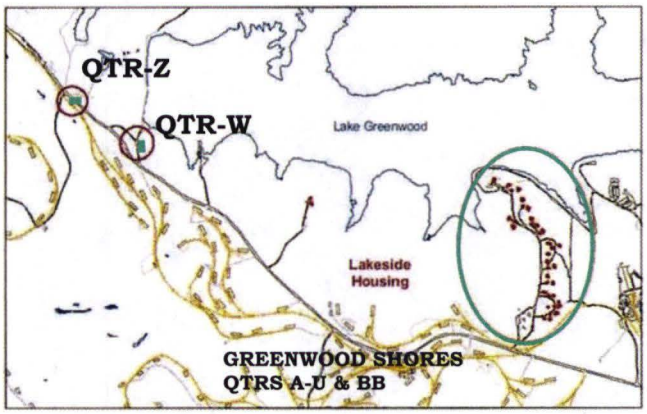
Site Location Map

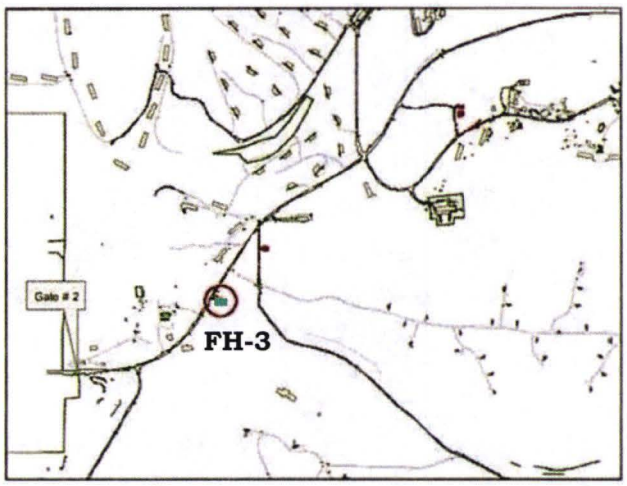
Naval Support Activity
Crane, IN

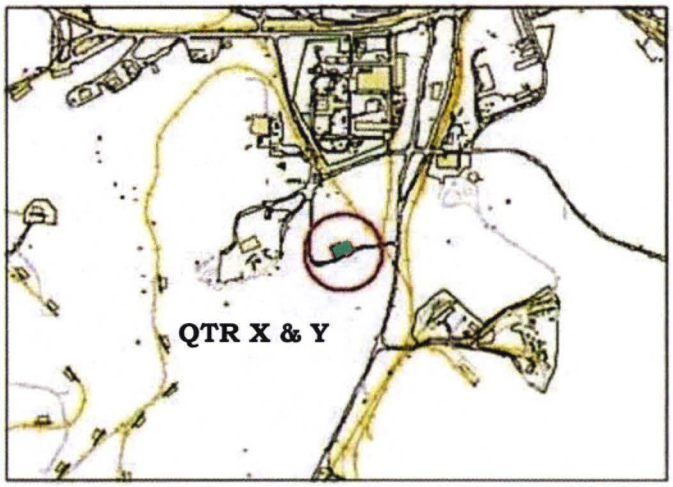
FIGURE
1

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.04		09/12/05	

SOURCE: MACTEC Engineering and Consulting, Inc.
Field Notes.







KEY

= Approximate Site Boundary

= Quarters & Farmhouse Locations

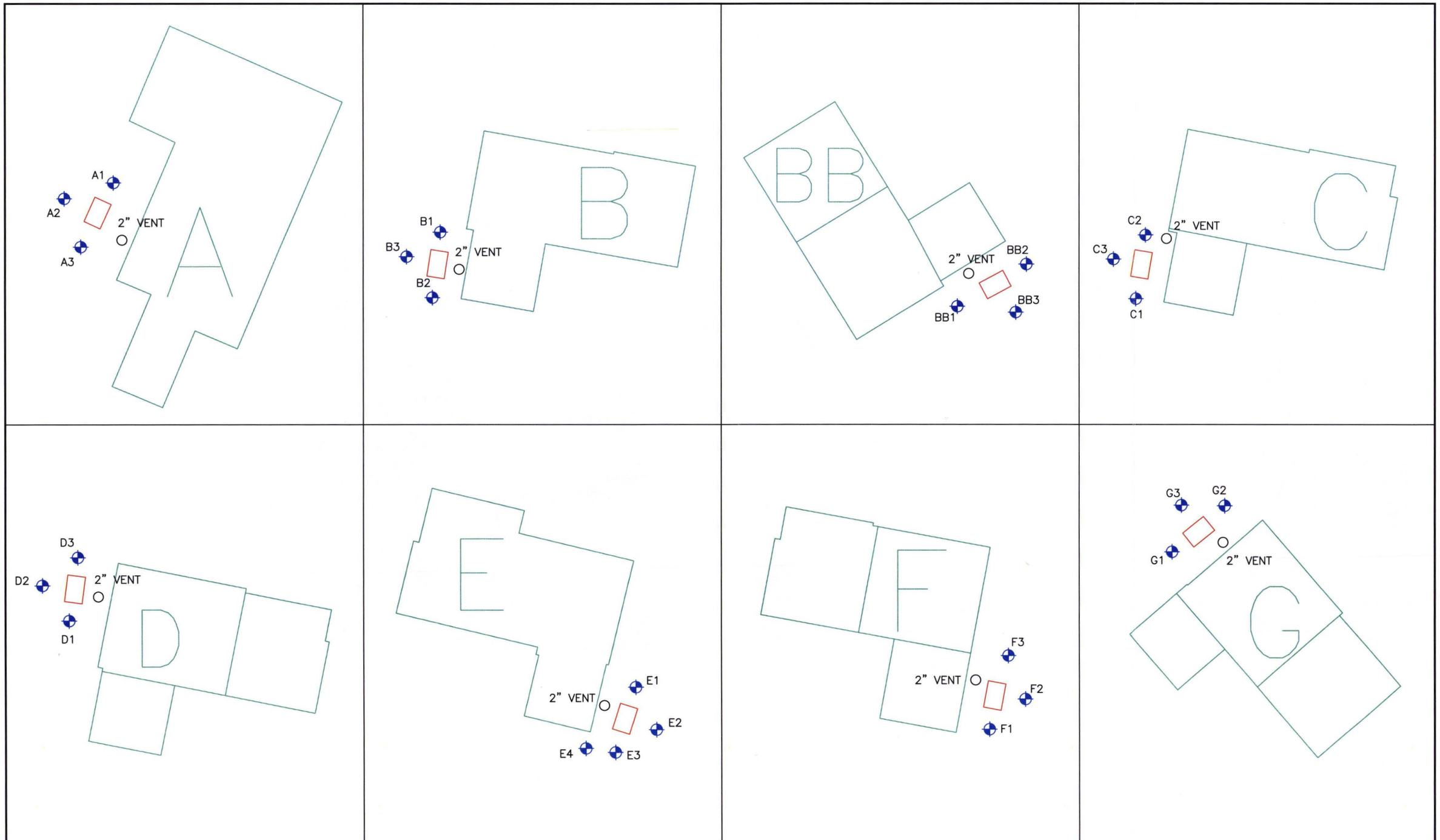
N

MACTEC
Engineering and Consulting, Inc.

PHASE II ESA INVESTIGATION AREAS
CRANE NWSC
NAVY PRPOERTY AT CRANE NWSC
CRANE, IN

FIGURE
2

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.04		09/12/05	



LEGEND:

◆ = APPROXIMATE BORING LOCATIONS

—— = ASSUMED UST LOCATIONS

N

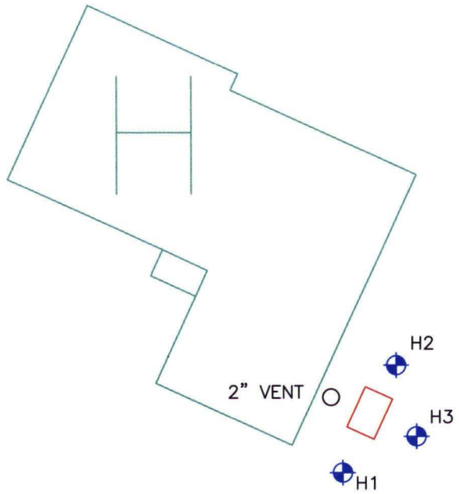
MACTEC
5440 North Cumberland, Suite 250
Chicago, Illinois 60656
Phone (773) 693-6030
Fax (773) 693-6039

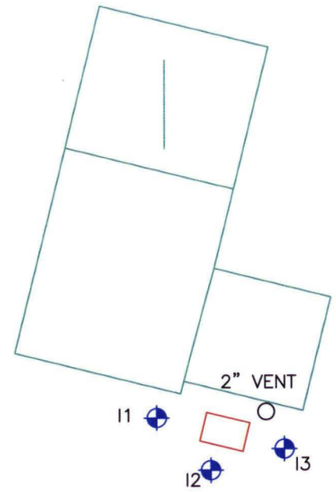
DRAWN: GAP	PROJECT NO: 3205050441.04
ENGINEER:	SCALE: 1"=20"
CHECKED:	APPROVED:
DATE: 09/09/05	DATE:

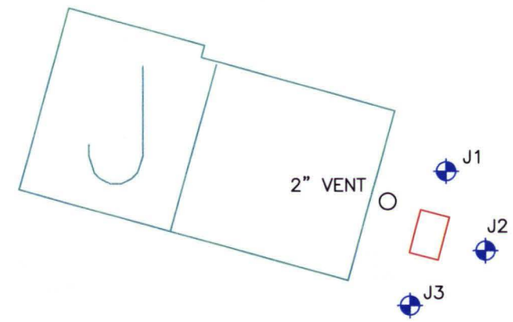
BORING LOCATION PLAN
QUARTERS A, B, BB, C, D, E, F, & G
NAVY PROPERTY AT CRANE NWSC
CRANE, IN

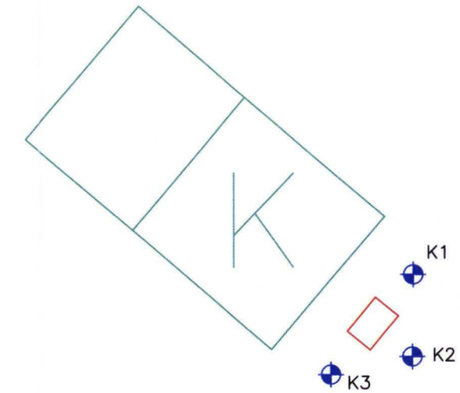
SHEET NUMBER
3

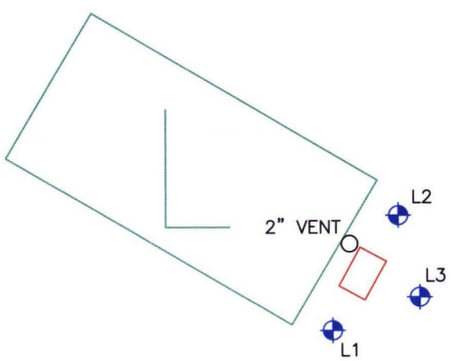
DRAWING NUMBER

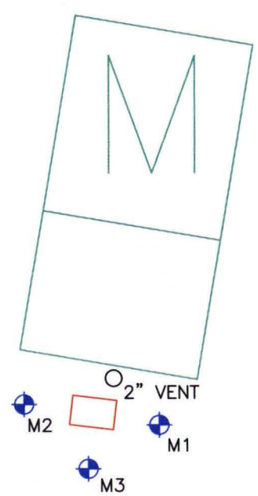


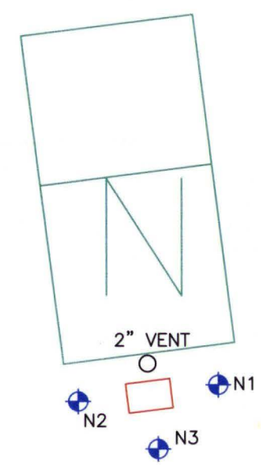


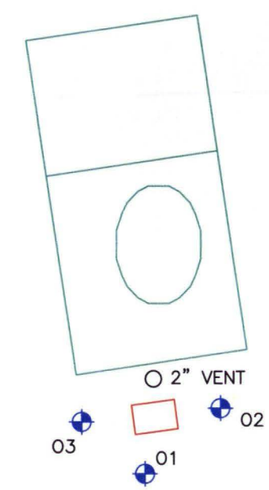












LEGEND:

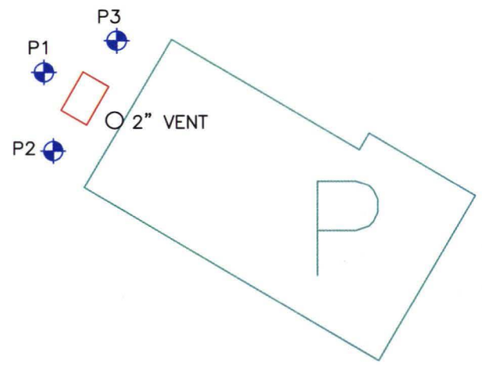
◆ = APPROXIMATE BORING LOCATIONS

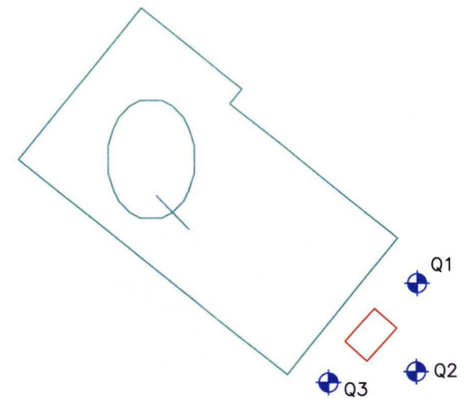
— = ASSUMED UST LOCATIONS

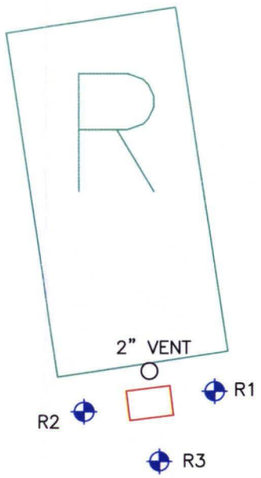
N

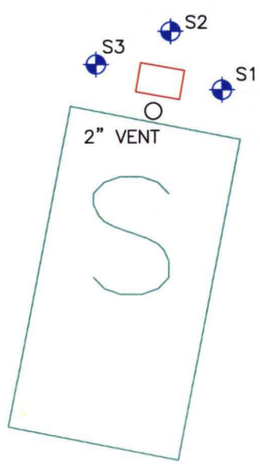
MACTEC
5440 North Cumberland, Suite 250
Chicago, Illinois 60656
Phone (773) 693-6030
Fax (773) 693-6039

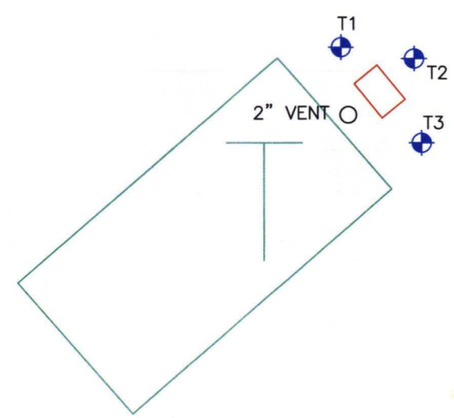
DRAWN: GAP	PROJECT NO: 3205050441.04	BORING LOCATION PLAN QUARTERS H, I, J, K, L, M, N, & O NAVY PROPERTY AT CRANE NWSC CRANE, IN	SHEET NUMBER 4
ENGINEER:	SCALE: 1"=20'		DRAWING NUMBER
CHECKED:	APPROVED:		
DATE: 09/09/05	DATE:		

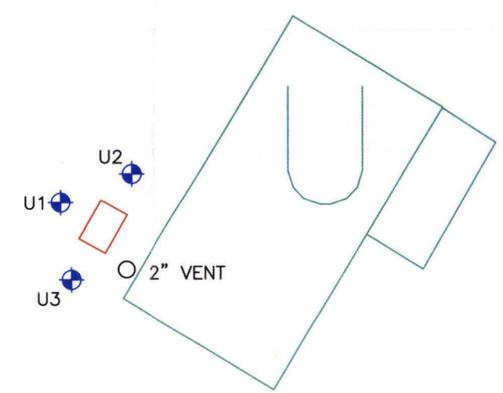












LEGEND:

= APPROXIMATE BORING LOCATIONS

= ASSUMED UST LOCATIONS

N

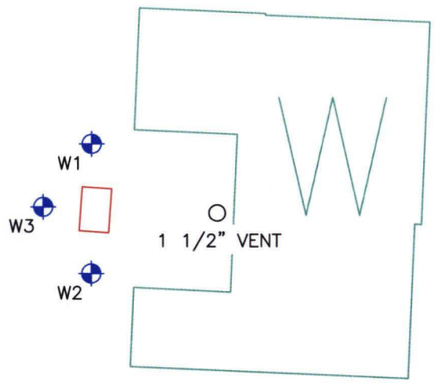
MACTEC
5440 North Cumberland, Suite 250
Chicago, Illinois 60656
Phone (773) 693-6030
Fax (773) 693-6039

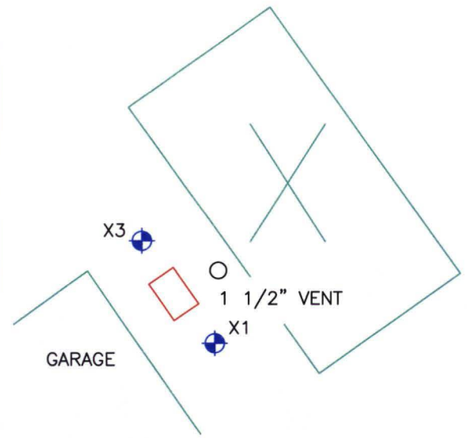
DRAWN: GAP	PROJECT NO: 3205050441.04
ENGINEER:	SCALE: 1"=20'
CHECKED:	APPROVED:
DATE: 09/09/05	DATE:

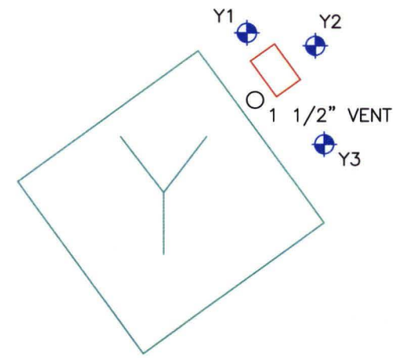
BORING LOCATION PLAN
QUARTERS P, Q, R, S, T, & U
NAVY PROPETY AT CRANE NWSC
CRANE, IN

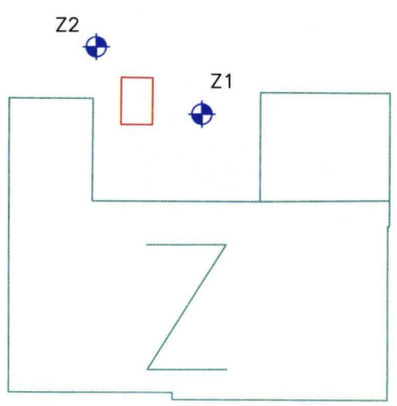
SHEET NUMBER
5

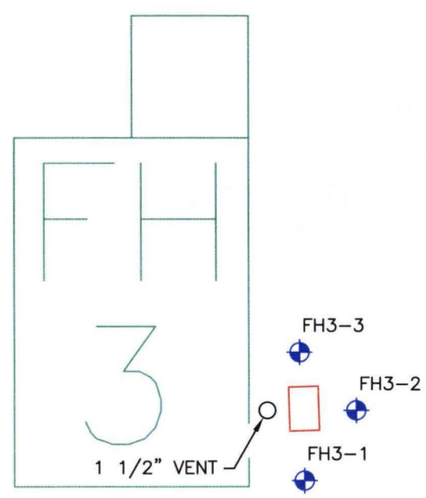
DRAWING NUMBER











LEGEND:

◆ = APPROXIMATE BORING LOCATIONS

— = ASSUMED UST LOCATIONS

N

MACTEC
5440 North Cumberland, Suite 250
Chicago, Illinois 60656
Phone (773) 693-6030
Fax (773) 693-6039

DRAWN: GAP	PROJECT NO: 3205050441.04
ENGINEER:	SCALE: NOT TO SCALE
CHECKED:	APPROVED:
DATE: 09/09/05	DATE:

BORING LOCATION PLAN
QUARTERS W, X, Y, Z & FARM HOUSE #3
NAVY PROPETY AT CRANE NWSC
CRANE, IN

SHEET NUMBER
6

DRAWING NUMBER

Appendix A

Representative Photographs

Site Photographs

Site Name:	NSA Crane Crane, Indiana	**Project No:** **By:** **Date:**	3205050441.04 MACTEC Engineering and Consulting, Inc. August 30, 2005

Photo No. 1: Yard Area Quarters L, Showing Vent Line and Utility Markings.

Site Photographs

Site Name:	NSA Crane Crane, Indiana	**Project No:** **By:** **Date:**	3205050441.04 MACTEC Engineering and Consulting, Inc. September 21, 2005

Photo No. 2: Geoprobe Drilling At Quarters J.

Site Photographs

Site Name:	NSA Crane Crane, Indiana	**Project No:** **By:** **Date:**	3205050441.04 MACTEC Engineering and Consulting, Inc. September 21, 2005

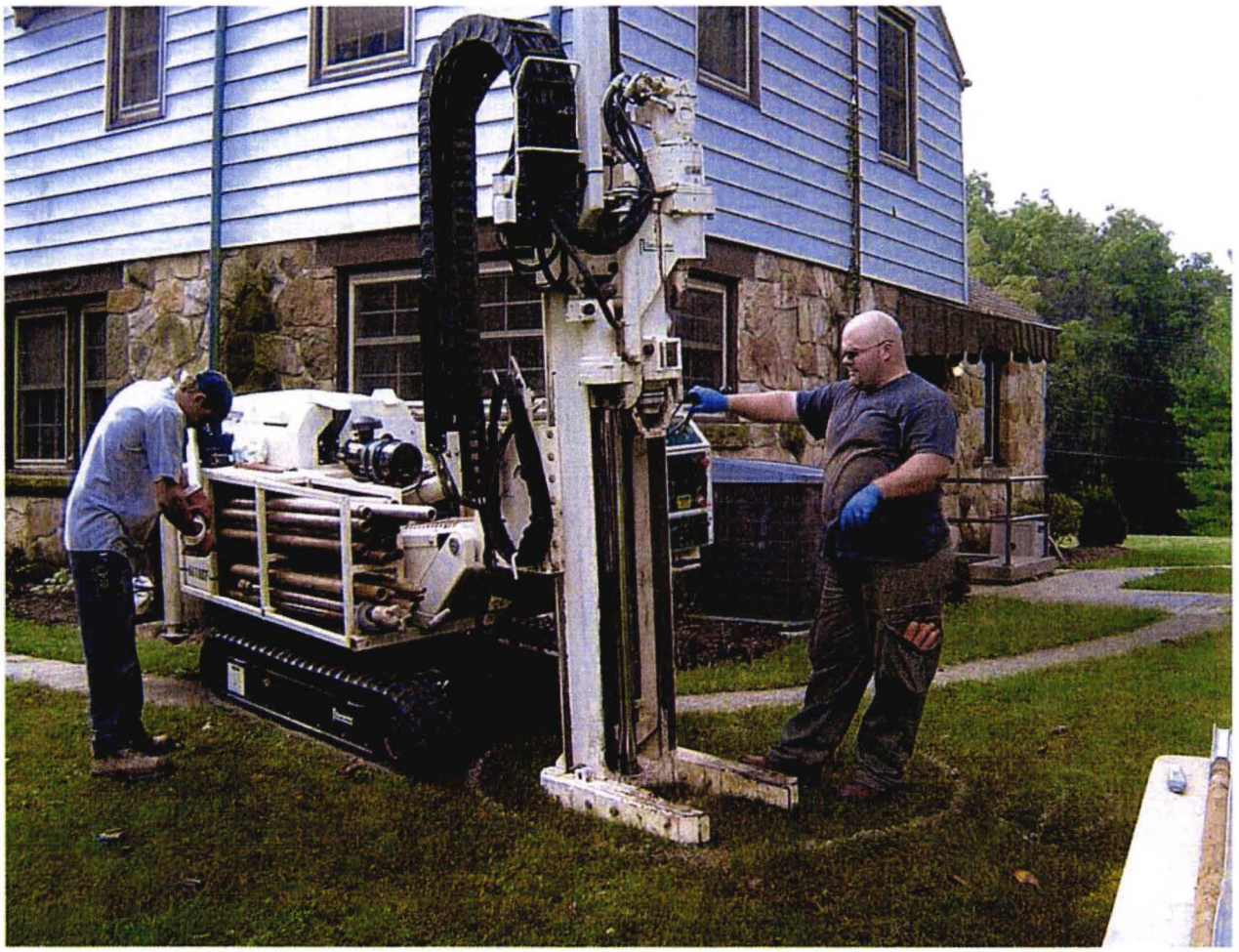


Photo No. 3: Geoprobe Drilling At Quarters G within the Proposed Boring Location Marking (White Paint).

Appendix B

NSA Crane Digging Permits

DIGGING PERMIT
NSWC CRANE 11000/3 (REV. 8/02)

4854

REQUESTED BY: Forest City / Diana Byers x3510	DATE: 8/26/05
WORK REQUEST ON E/S NO.: Residential - Qtrs J-N	
WORK WILL BE PERFORMED BY: MiaTec w/ Dennis Nagg 773-693-6030	DATE (Start - on or about): 8/30/05

WORK DESCRIPTION:
Soil Samples 2" diameter & 8' deep. Marked with white circles & orange flags.

Rusty - 937-287-8391

EQUIPMENT TYPE
☐ HAND TOOLS ☐ CORE DRILL ☐ TRENCHER ☐ BACKHOE ☐ HEAVY EQUIPMENT

UNDERGROUND UTILITIES LOCATED IN WORK SITE

UTILITY	PRESENT	MARKED	NOT LOCATED	REMARKS
COMPRESSED AIR	N/A		Remarked	dg 8/26/05
HIGH VOLTAGE ELECTRICAL	N/A			S.P. 8-29-05
FIRE ALARM	N/A			8/26/05 per R. Roberts
GROUNDING	N/A			dg 8/26/05
Exp 9/15 9 NATURAL GAS 0508262295	YES	YES	SC 9-15-05	5-27-05
SECURITY ALARM	N/A			8/26/05 per M. Holter
SEWER	YES	YES	NA RPO 091405	8-29-05 DM
STEAM	N/A			8/26/05 per R. Burman
TELEPHONE Faxed 8/26/05	Yes	Yes	HP 9-15-05	HP 8-29-05
WATER	YES	YES	NA TMO 091405	DM 8-29-05
SECOND ELECTRICAL CRPW6	NA			S.P. 8-29-05
GENERAL DYNAMICS/NMCI	N/A			8/26/05 dg

In addition to the general precautions for excavating where underground utilites are present, comply with the following:

Remark Qtrs J, L, M, N
* Exp 10/3 0509130945

PERMIT HOLDER SIGNATURE: R S Dempsey	DATE: 08/30/05
DIGGING PERMIT APPROVED BY: Donna L. Zollman	DATE: 8/30/05

DISTRIBUTION:
ORIGINAL - Code 09Z5 File
YELLOW - Supv. At work site
PINK - Permit requestor

DIGGING PERMIT
NSWC CRANE 11000/3 (REV. 8/02)

4853

REQUESTED BY: Forest City / Diana Byers x3510	DATE: 8/26/05
WORK REQUEST ON E/S NO.	Residential - Qtrs F-I (BB)
WORK WILL BE PERFORMED BY: MacTech / Dennis Nagg 773-693-6030	DATE (Start - on or about): 8/30/05

WORK DESCRIPTION
Soil Samples, 2" diameter, 8' deep. Marked with white paint circle & orange flag.

Rusty 937-287-8391

EQUIPMENT TYPE
☐ HAND TOOLS ☐ CORE DRILL ☐ TRENCHER ☐ BACKHOE ☐ HEAVY EQUIPMENT

UNDERGROUND UTILITIES LOCATED IN WORK SITE

UTILITY	PRESENT	MARKED	NOT LOCATED	REMARKS
COMPRESSED AIR	N/A		Remarked	8/26/05 dg
HIGH VOLTAGE ELECTRICAL CRPWL	N/A			S.P. 8-29-05
FIRE ALARM	N/A			8/26/05 per R. Roberts
GROUNDING	N/A			8/26/05 dg
Exp 9/15 9 NATURAL GAS 0508262291	YES	YES	SC 9-15-05	8-27-05 DGH
SECURITY ALARM	N/A			8/26/05 per M. Hatter
SEWER	YES	YES	NA 7PO 09 14 05	DM 8-29-05
STEAM	N/A			per M. Brinson 8/26/05
TELEPHONE Faxed ~~8/26/05~~ 9/12/05	Yes	Yes	9-15-05 HP	HP 8-29-05
WATER	YES	YES	NA 7PO 09 14 05	DM 8-29-05
SECOND ELECTRICAL CRPWL	N/A			S.P. 8-29-05
GENERAL DYNAMICS/NMCI	N/A			8/26/05 dg

In addition to the general precautions for excavating where underground utilites are present, comply with the following:

M/HS * Exp 10/3 0509130949

Remark Qtrs F, G, I

PERMIT HOLDER SIGNATURE: R Dufresch	DATE: 08/30/05
DIGGING PERMIT APPROVED BY: Donna L. Zellman	DATE: 8/30/05

DISTRIBUTION:
ORIGINAL - Code 09Z5 File
YELLOW - Supv. At work site
PINK - Permit requestor

NSWC CRANE 11000/3 (REV. 8/02)

4855

REQUESTED BY: Forest City / Diana Byers x3510

DATE: 8/26/05

WORK REQUEST ON E/S NO.: O, S, P, Q, R Residential - Qtrs T+U

WORK WILL BE PERFORMED BY: MacTech / Dennis Nagg 773-693-6030

DATE (Start - on or about): 8/30/05

WORK DESCRIPTION: Soil Samples 2" diameter & 8' deep. Marked with white circle & orange flag.

Rusty 937-287-8391

EQUIPMENT TYPE

- [ ] HAND TOOLS
- [ ] CORE DRILL
- [x] TRENCHER
- [ ] BACKHOE
- [ ] HEAVY EQUIPMENT

UNDERGROUND UTILITIES LOCATED IN WORK SITE

UTILITY	PRESENT	MARKED	NOT LOCATED	REMARKS
COMPRESSED AIR	N/A		Remarked	8/26/05 dg
HIGH VOLTAGE ELECTRICAL OPPW6	N/A			S.P. 8-29-05
FIRE ALARM	N/A			8/26/05 per R. Roberts
GROUNDING	N/A			8/26/05 dg
9 NATURAL GAS Exp 9/15 0508262305	YES	YES	SC 9-15-05	8-27-05 OEM
SECURITY ALARM	N/A			8/26/05 per M. Hatter
SEWER	Yes	Yes	PA TAO 91505	DR 8-29-05
STEAM	N/A			8/26/05 per M. Brinson
TELEPHONE Faxed 8/26/05	Yes	Yes	HP 9-15-05	8-29-05 HP
WATER	yes	yes	MAH 9-15-05	DR 8-29-05
SECOND ELECTRICAL OPPW6	N/A			S.P. 8-29-05
GENERAL DYNAMICS/NMCI	N/A			8/26/05 dg

In addition to the general precautions for excavating where underground utilites are present, comply with the following:

H1/H5 * Exp 10/3 0509130939

Remark Qtrs O, P, R, T

PERMIT HOLDER SIGNATURE: [signature] DATE: 08/30/05

DIGGING PERMIT APPROVED BY: Donna L. Zollman DATE: 8/30/05

DISTRIBUTION:

ORIGINAL - Code 09Z5 File
YELLOW - Supv. At work site
PINK - Permit requestor

NSWC CRANE 11000/3 (REV. 8/02) 4002

REQUESTED BY: Forest City / Diana Byers X3510	DATE: 8/26/05
WORK REQUEST ON E/S NO.	Residential - Qtrs A-E
WORK WILL BE PERFORMED BY: MACTech / Dennis Nagg 773-693-6030	DATE (Start - on or about): 8/30/05

WORK DESCRIPTION
Soil Samples. Marked with white paint circle & orange flag. 2" in diameter, 8' deep

Rusty - 937-287-8341

EQUIPMENT TYPE
☐ HAND TOOLS ☐ CORE DRILL ☐ TRENCHER ☐ BACKHOE ☐ HEAVY EQUIPMENT

UNDERGROUND UTILITIES LOCATED IN WORK SITE

UTILITY	PRESENT	MARKED	~~NOT LOCATED~~ Remarked	REMARKS
COMPRESSED AIR	N/A			dg 8/26/05
HIGH VOLTAGE ELECTRICAL ~~UGWL~~	NA			S.P. 8-29-05
FIRE ALARM	N/A			per R Roberts 8/26/05
GROUNDING	N/A			dg 8/26/05
9 NATURAL GAS Exp 9/15 05c826 2284	YES	YES	SC 9-15-05	DEH 8-27-05
SECURITY ALARM Faxed 9/12/05	Yes	Yes	MH 9-15-05	MH 8-26-05
SEWER	yes	yes	NA ZAO 09 14 05	DN 8-29-05
STEAM	N/A			per M. Beinor 8/26
TELEPHONE Faxed 9/12/05 ~~9/22/05~~	Yes	Yes	YP 9-15-05	YP 8-29-05
WATER	yes	yes	NA ZAO 09 14 05	DN 8-29-05
* SECOND ELECTRICAL ~~UGPWL~~	Yes	Yes	9/15/05 per S.P.	per S.P. 8/30/05
GENERAL DYNAMICS/NMCI	N/A			8/26/05 dg

In addition to the general precautions for excavating where underground utilites are present, comply with the following:

HI/HS * Exp 10/3 0509130958

* Will be marked at 9:00 Am on 8/30/05 - Quarter "A"

Remark Qtrs A, B + C

PERMIT HOLDER SIGNATURE: K E Dorfmeier	DATE: 08/30/05
DIGGING PERMIT APPROVED BY: Donna L. Zollman	DATE: 8/30/05

DISTRIBUTION:
ORIGINAL - Code 09Z5 File
YELLOW - Supv. At work site
PINK - Permit requestor

DIGGING PERMIT
NSWC CRANE 11000/3 (REV. 8/02)

4858

REQUESTED BY: Forest City / Diana Byers x 3510	DATE: 8/26/05
WORK REQUEST ON E/S NO.	QUARTERS X & Y
WORK WILL BE PERFORMED BY: MacTech / Dennis Nagg 773-693-6036	DATE (Start - on or about): 8/30/05

WORK DESCRIPTION
Soil Samples 2" in diameter & 8' deep. Marked with white paint circles & orange flags.

Rusty - 937-287-8341

EQUIPMENT TYPE
☐ HAND TOOLS ☐ CORE DRILL ☐ TRENCHER ☐ BACKHOE ☐ HEAVY EQUIPMENT

UNDERGROUND UTILITIES LOCATED IN WORK SITE

UTILITY	PRESENT	MARKED	~~NOT LOCATED~~ REMARKED	REMARKS
COMPRESSED AIR	N/A			dz 8/26/05
HIGH VOLTAGE ELECTRICAL CRPW6	N/A			S.P. 8-29-05
FIRE ALARM	N/A			8/26/05 per R. Roberts
GROUNDING	N/A			dz 8/26/05
15 NATURAL GAS Exp 9/15 0508262322	YES	YES	SC 9-15-05	8-27-05 DEH
SECURITY ALARM	N/A			8/26/05 per M. Hatter
SEWER	YES	YES	NA 7MQ 9 15 05	DM 8-27-05
STEAM	N/A			8/26/05 per M. Brown
TELEPHONE Faxed 8/26/05	N/A		GP 9-15-05	GP 8-29-05
WATER	YES	YES	NA 7MQ 91505	DM 8-29-05
SECOND ELECTRICAL CRPW6	N/A			S.P. 8-29-05
GENERAL DYNAMICS/NMCI	N/A			dz 8/26/05

In addition to the general precautions for excavating where underground utilites are present, comply with the following:

H478/H45 * Exp 10/3 0509130963

Remark Qtrs X

PERMIT HOLDER SIGNATURE: R. Nagg	DATE: 08/30/05
DIGGING PERMIT APPROVED BY: Donna L. Zollman	DATE: 8/30/05

DISTRIBUTION:
ORIGINAL - Code 09Z5 File
YELLOW - Supv. At work site
PINK - Permit requestor

Appendix C

Test Boring Records

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	A-1		
DATE:	8/30/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	1.4	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	1.2	dry		
4	A1(4-6)					
5		2.0 ft.	2.3	dry	Silty, sandy, clay, brown.	
6						
7		2.0 ft.	1.5	dry		
8					End of Boring	
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	A-2		
DATE:	8/30/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.1	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5	A2(4-6)	2.0 ft.	0.2	dry	Silty, sandy, clay, brown, trace gray mottling.	
6						
7		2.0 ft.	0.0	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	A-3		
DATE:	9/21/2005		
LOGGED BY:	J. Null	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 7 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					Top soil	
1		2.0 ft.	0.0	dry	Brown silty soil. Sand and stone fill. Light tan and gray mottled silt.	
2						
3		2.0 ft.	0.5	dry	Mottling decreasing.	
4	A3(4-6)					
5		2.0 ft.	0.2	dry	Reddish-brown silt with occasional fragments of silt stone.	
6		1.0 ft.	NA	dry	Brown silt with silt stone interbedded.	
7					End of Boring	Sampler refusal at 7.0 feet below ground surface.
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Prepared by: JFN Checked by: JLW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	B-1		
DATE:	8/30/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 4.1 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.2	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3	B1(2-4)	2.0 ft.	0.8	dry	Silty, sandy, clay, brown.	
4		0.1		dry		
5					End of Boring	Sampler refusal at 4.1 feet below ground level
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	B-2		
DATE:	8/30/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.2	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.2	dry		
4						
5		2.0 ft.	0.4	dry	Silty, sandy, clay, brown.	
6						
7	B2(6-8)	1.8 ft.	1.2	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	B-3		
DATE:	9/21/2005		
LOGGED BY:	J. Null	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 5 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					Top soil.	
1		2.0 ft.	0.0	dry	Light brown to tan silt with slight reddish-brown mottling.	
2						
3		2.0 ft.	1.8	dry	Mottling decreasing.	
4	B3(4-6)	1.0 ft.	0.6	dry	Siltstone.	
5					End of Boring	Sampler refusal at 5.0 feet below ground surface.
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Prepared by: JFN Checked by: JLW

MACTEC

5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

TEST BORING RECORD

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	P-3		
DATE:	9/12/2005		
LOGGED BY:	J. Null	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					Top soil.	
1		2.0 ft.	0.0	dry	Brown silt, trace organic material.	
2					Silt, slightly darker brown with some gray mottling.	
3		2.0 ft.	0.0	dry	Light gray and tan silt with slight mottling.	
4						
5		2.0 ft.	1.1	dry	Light gray and tan clayey silt, slightly mottled.	
6					Silt stone, approximately 6 inches thick.	
7	P3(6-8)	2.0 ft.	0.5	dry	Light brown clayey silt with occasional silt stone.	
8					End of Boring	
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Prepared by: JFN Checked by: JLW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	Q-1		
DATE:	9/1/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5	Q1(4-6)	2.0 ft.	1.2	dry	Silty, sandy, clay, brown, trace gray mottling.	
6						
7		2.0 ft.	0.8	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	Q-2		
DATE:	9/1/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.2	dry		
4						
5		2.0 ft.	0.9	dry	Silty, sandy, clay, brown.	
6	Q2(6-8)					
7		1.8 ft.	2.3	dry	Silty, sandy, clay, brown, trace gray mottling.	
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	Q-3		
DATE:	9/1/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5		2.0 ft.	1.0	dry	Silty, sandy, clay, brown, trace gray mottling.	
6	Q3(6-8)					
7		2.0 ft.	1.6	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	R-1		
DATE:	9/1/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5		2.0 ft.	0.0	dry	Silty, sandy, clay, brown, trace gray mottling.	
6	R1(6-8)					
7		2.0 ft.	0.0	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	R-2		
DATE:	9/1/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5		2.0 ft.	0.0	dry	Silty, sandy, clay, brown, trace gray mottling.	
6	R2(6-8)					
7		2.0 ft.	0.0	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

MACTEC

5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

TEST BORING RECORD

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	R-3		
DATE:	9/21/2005		
LOGGED BY:	J. Null	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 7 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					Top soil.	
1		2.0 ft.	0.0	dry	Brown clayey silt.	
2					Light tan and gray mottled silt.	
3		2.0 ft.	0.0	dry		
4	R3(4-6)					
5		2.0 ft.	0.7	dry	Brown clayey silt.	
6		1.0 ft.	0.0	dry		
7					End of Boring	Sampler refusal at 7.0 feet below ground surface.
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Prepared by: JFN Checked by: JLW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	S-1		
DATE:	8/31/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5	S1(4-6)	2.0 ft.	0.2	dry	Silty, sandy, clay, brown, trace gray mottling.	
6						
7		2.0 ft.	0.0	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	S-2		
DATE:	8/31/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5		2.0 ft.	0.0	dry	Silty, sandy, clay, brown, trace gray mottling.	
6	S2(6-8)					
7		2.0 ft.	0.0	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	S-3		
DATE:	8/31/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5		2.0 ft.	0.0	dry	Silty, sandy, clay, brown, trace gray mottling.	
6						
7	S3(6-8)	2.0 ft.	0.0	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	T-1		
DATE:	9/1/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5		2.0 ft.	0.0	dry	Silty, sandy, clay, brown, trace gray mottling.	
6						
7	T1(6-8)	2.0 ft.	0.0	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	T-2		
DATE:	9/1/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5		2.0 ft.	0.0	dry	Silty, sandy, clay, brown, trace gray mottling.	
6						
7	T2(6-8)	2.0 ft.	0.0	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	T-3		
DATE:	9/21/2005		
LOGGED BY:	J. Null	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 7 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					Top soil.	
1		2.0 ft.	0.0	dry	Light tan and gray mottled silt.	
2						
3		2.0 ft.	0.0	dry	Brown clayey silt.	
					Light tan and gray silt with occasional interbedded silt stone.	
4	T3(4-6)					
5		2.0 ft.	0.9	dry		
6		1.0 ft.	0.0	dry	Reddish brown silt stone.	
7					End of Boring	Sampler refusal at 7.0 feet below ground surface.
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Prepared by: JFN Checked by: JLW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	U-1		
DATE:	9/1/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5		2.0 ft.	0.0	dry	Silty, sandy, clay, brown, trace gray mottling.	
6	U1(6-8)					
7		2.0 ft.	0.0	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	U-2		
DATE:	9/1/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5		2.0 ft.	0.0	dry	Silty, sandy, clay, brown, trace gray mottling.	
6	U2(6-8)					
7		2.0 ft.	0.0	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	U-3		
DATE:	9/1/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5		2.0 ft.	0.0	dry	Silty, sandy, clay, brown, trace gray mottling.	
6	U3(6-8)					
7		2.0 ft.	0.0	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	W-1		
DATE:	8/30/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0	W1(0-2)	2.0 ft.	0.7	dry	Asphalt and subbase. Silty, sandy, clay, trace gravel, gray.	
1						
2						
3		2.0 ft.	0.3	dry		
4						
5		2.0 ft.	0.4	dry	Silty, sandy, clay, brown.	
6						
7		1.8 ft.	0.0	dry		
8					End of Boring	
9						
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11						
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	W-2		
DATE:	8/30/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					Asphalt and subbase.	
1		2.0 ft.	0.4	dry	Silty, sandy, clay, gray.	
2						
3		2.0 ft.	0.4	dry		
4						
5		2.0 ft.	0.7	dry	Silty, sandy, clay, brown.	
6	W2(6-8)					
7		1.9 ft.	1.8	dry		
8					End of Boring	
9						
10						
11						
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	W-3		
DATE:	8/30/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					Asphalt and subbase.	
1		2.0 ft.	0.3	dry	Silty, sandy, clay, gray.	
2	W3(2-4)					
3		2.0 ft.	10.8	dry		
4						
5		2.0 ft.	2.8	dry	Silty, sandy, clay, brown.	
6						
7		1.8 ft.	1.6	dry		
8					End of Boring	
9						
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	X-1		
DATE:	8/30/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5		2.0 ft.	0.2	dry	Silty, sandy, clay, brown.	
6	X1(6-8)					
7		1.6 ft.	0.8	dry		
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	X-3		
DATE:	9/21/2005		
LOGGED BY:	J. Null	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					Top soil.	
1		2.0 ft.	0.7	dry	Brown silty soil. Brown clayey silt.	
2						
3		2.0 ft.	0.0	dry	Light brown clayey silt with occasional gray mottling.	
4						
5		2.0 ft.	3.2	dry	Tan clayey silt.	
6	X3(6-8)					
7		2.0 ft.	1.3	dry	Tan silty clay, stiff with red siltstone interbedded.	
8					End of Boring	
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Prepared by: JFN Checked by: JLW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	Y-1		
DATE:	8/30/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 5.5 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry		
4						
5	Y1(4-6)	1.5 ft.	0.6	dry	Silty, sandy, clay, brown.	
6					End of Boring	Sampler refusal at 5.5 feet below ground level
7						
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	Y-2		
DATE:	8/30/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 3.8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3	Y2(2-4)	1.8 ft.	0.0	dry		
4					End of Boring	Sampler refusal at 3.8 feet below ground level
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	Y-3		
DATE:	8/30/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 4.5 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3	Y3(2-4)	1.8 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
4		0.5 ft.	0.0	dry	Silty, sandy, clay, brown.	
5					End of Boring	Sampler refusal at 4.5 feet below ground level
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	Z-1		
DATE:	9/1/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
4						
5		2.0 ft.	0.0	dry	Silty, sandy, clay, brown, trace gray mottling.	
6						
7	Z1(6-8)	2.0 ft.	0.0	dry	Silty, sandy, clay, brown, trace gray mottling.	
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	Z-2		
DATE:	9/1/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
4						
5		2.0 ft.	0.0	dry	Silty, sandy, clay, brown, trace gray mottling.	
6						
7	Z2(6-8)	2.0 ft.	0.0	dry	Silty, sandy, clay, trace sandstone, brown trace gray mottling.	
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	FH3-1		
DATE:	8/30/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
4						
5		2.0 ft.	0.0	dry	Silty, sandy, clay, brown.	
6	FH3-1(6-8)					
7		1.9 ft.	0.0	dry	Silty, sandy, clay, brown.	
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	FH3-2		
DATE:	8/30/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
4	FH3-2(4-6)					
5		2.0 ft.	1.1	dry	Silty, sandy, clay, brown.	
6						
7		1.9 ft.	0.2	dry	Silty, sandy, clay, brown.	
8					End of Boring	
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Prepared by: RED Checked by: RLB

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City Military Communities	SITE:	NAVSEA - Crane, IN
BORING NO:	FH3-3		
DATE:	8/30/2005		
LOGGED BY:	R. Dornbusch	DRILLED BY:	American Drilling Service
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:		MACTEC DRAWING NUMBER:	TOTAL DEPTH: 8 feet

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0						
1		2.0 ft.	0.0	dry	Silty, sandy, clay, trace organic material, brown.	
2						
3		2.0 ft.	0.4	dry	Silty, sandy, clay, trace organic material, brown.	
4						
5		2.0 ft.	0.4	dry	Silty, sandy, clay, brown.	
6	FH3-3(6-8)					
7		1.9 ft.	1.2	dry	Silty, sandy, clay, trace gravel, brown.	
8					End of Boring	
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Prepared by: RED Checked by: RLB

Appendix D

Analytical Laboratory Reports

STAT Analysis Corporation
2255 West Harrison St., Suite B, Chicago, IL 60612-3505
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

September 12, 2005

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205050441.04, Crane, IN STAT Project No: 05090072

Dear Dennis Nagg:

STAT Analysis received 14 samples for the referenced project on 9/2/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Chris Forst
Assistant Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205050441.04, Crane, IN
Lab Order: 05090072

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
05090072-001A	Z1 (6-8)		9/1/2005 9:00:00 AM	9/2/2005
05090072-001B	Z1 (6-8)		9/1/2005 9:00:00 AM	9/2/2005
05090072-002A	Z2 (6-8)		9/1/2005 9:09:00 AM	9/2/2005
05090072-002B	Z2 (6-8)		9/1/2005 9:09:00 AM	9/2/2005
05090072-003A	P1 (6-8)		9/1/2005 9:34:00 AM	9/2/2005
05090072-003B	P1 (6-8)		9/1/2005 9:34:00 AM	9/2/2005
05090072-004A	P2 (6-8)		9/1/2005 9:44:00 AM	9/2/2005
05090072-004B	P2 (6-8)		9/1/2005 9:44:00 AM	9/2/2005
05090072-005A	Q1 (4-6)		9/1/2005 10:00:00 AM	9/2/2005
05090072-005B	Q1 (4-6)		9/1/2005 10:00:00 AM	9/2/2005
05090072-006A	Q2 (6-8)		9/1/2005 10:09:00 AM	9/2/2005
05090072-006B	Q2 (6-8)		9/1/2005 10:09:00 AM	9/2/2005
05090072-007A	Q3 (6-8)		9/1/2005 10:18:00 AM	9/2/2005
05090072-007B	Q3 (6-8)		9/1/2005 10:18:00 AM	9/2/2005
05090072-008A	R1 (6-8)		9/1/2005 10:44:00 AM	9/2/2005
05090072-008B	R1 (6-8)		9/1/2005 10:44:00 AM	9/2/2005
05090072-009A	R2 (6-8)		9/1/2005 10:56:00 AM	9/2/2005
05090072-009B	R2 (6-8)		9/1/2005 10:56:00 AM	9/2/2005
05090072-010A	T1 (6-8)		9/1/2005 11:14:00 AM	9/2/2005
05090072-010B	T1 (6-8)		9/1/2005 11:14:00 AM	9/2/2005
05090072-011A	T2 (6-8)		9/1/2005 11:25:00 AM	9/2/2005
05090072-011B	T2 (6-8)		9/1/2005 11:25:00 AM	9/2/2005
05090072-012A	U1 (6-8)		9/1/2005 11:43:00 AM	9/2/2005
05090072-012B	U1 (6-8)		9/1/2005 11:43:00 AM	9/2/2005
05090072-013A	U2 (6-8)		9/1/2005 11:53:00 AM	9/2/2005
05090072-013B	U2 (6-8)		9/1/2005 11:53:00 AM	9/2/2005
05090072-014A	U3 (6-8)		9/1/2005 12:03:00 PM	9/2/2005
05090072-014B	U3 (6-8)		9/1/2005 12:03:00 PM	9/2/2005

STAT Analysis Corporation
2255 West Harrison St., Suite B, Chicago, IL 60612-3505
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090072
Project: 3205050441.04, Crane, IN
Lab ID: 05090072-001

Client Sample ID: Z1 (6-8)
Collection Date: 9/1/2005 9:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **PS**
Benzene	ND	0.0044		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0044		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0044		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	11.7	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090072
Project: 3205050441.04, Crane, IN
Lab ID: 05090072-002

Client Sample ID: Z2 (6-8)
Collection Date: 9/1/2005 9:09:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **PS**
Benzene	ND	0.007		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.007		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.007		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.021		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	14.8	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090072
Project: 3205050441.04, Crane, IN
Lab ID: 05090072-003

Client Sample ID: P1 (6-8)
Collection Date: 9/1/2005 9:34:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **PS**
Benzene	ND	0.0049		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0049		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0049		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	13.0	0.01	*	wt%	1	9/10/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090072
Project: 3205050441.04, Crane, IN
Lab ID: 05090072-004

Client Sample ID: P2 (6-8)
Collection Date: 9/1/2005 9:44:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.026		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.026		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.026		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.026		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.026		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.026		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.026		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.026		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.026		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.026		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.026		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.026		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.026		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.026		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.026		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.026		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **PS**
Benzene	ND	0.0048		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0048		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	8.34	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090072
Project: 3205050441.04, Crane, IN
Lab ID: 05090072-005

Client Sample ID: Q1 (4-6)
Collection Date: 9/1/2005 10:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **PS**
Benzene	ND	0.0045		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0045		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0045		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	12.8	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090072
Project: 3205050441.04, Crane, IN
Lab ID: 05090072-006

Client Sample ID: Q2 (6-8)
Collection Date: 9/1/2005 10:09:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **PS**
Benzene	ND	0.0051		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0051		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	15.6	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090072
Project: 3205050441.04, Crane, IN
Lab ID: 05090072-007

Client Sample ID: Q3 (6-8)
Collection Date: 9/1/2005 10:18:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **PS**
Benzene	ND	0.0051		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0051		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	10.9	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090072
Project: 3205050441.04, Crane, IN
Lab ID: 05090072-008

Client Sample ID: R1 (6-8)
Collection Date: 9/1/2005 10:44:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **PS**
Benzene	ND	0.0045		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0045		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0045		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.013		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	9.88	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
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* - Non-accredited parameter
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090072
Project: 3205050441.04, Crane, IN
Lab ID: 05090072-009

Client Sample ID: R2 (6-8)
Collection Date: 9/1/2005 10:56:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **PS**
Benzene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	12.6	0.01	*	wt%	1	9/10/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090072
Project: 3205050441.04, Crane, IN
Lab ID: 05090072-010

Client Sample ID: T1 (6-8)
Collection Date: 9/1/2005 11:14:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **PS**
Benzene	ND	0.0053		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0053		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0053		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	16.3	0.01	*	wt%	1	9/10/2005

Qualifiers:
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HT - Sample received past holding time
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E - Value above quantitation range
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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090072
Project: 3205050441.04, Crane, IN
Lab ID: 05090072-011

Client Sample ID: T2 (6-8)
Collection Date: 9/1/2005 11:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.031		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.031		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.031		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.031		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.031		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.031		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **PS**
Benzene	ND	0.0057		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0057		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	20.5	0.01	*	wt%	1	9/10/2005

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090072
Project: 3205050441.04, Crane, IN
Lab ID: 05090072-012

Client Sample ID: U1 (6-8)
Collection Date: 9/1/2005 11:43:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.027		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.027		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.027		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **PS**
Benzene	ND	0.005		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.005		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.005		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	12.7	0.01	*	wt%	1	9/10/2005

Qualifiers:
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E - Value above quantitation range
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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090072
Project: 3205050441.04, Crane, IN
Lab ID: 05090072-013

Client Sample ID: U2 (6-8)
Collection Date: 9/1/2005 11:53:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **PS**
Benzene	ND	0.0047		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0047		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	14.5	0.01	*	wt%	1	9/10/2005

Qualifiers:
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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090072
Project: 3205050441.04, Crane, IN
Lab ID: 05090072-014

Client Sample ID: U3 (6-8)
Collection Date: 9/1/2005 12:03:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **PS**
Benzene	ND	0.0048		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0048		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	14.6	0.01	*	wt%	1	9/10/2005

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H - Holding time exceeded

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CHAIN OF CUSTODY RECORD №: 809976 Page: 1 of 1

Company: MACTEC
Project Number: 3205050444.04 Client Tracking No.:
Project Name: Crane, IN
Location/Address:
Sampler(s): R. Doenbusch
Report To: Dennis Nagg Phone: (773) 693-6030
QC Level: 1 ____ 2 ____ 3 ____ 4 ____ Fax:
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other:

P.O. No.:
Quote No.: 274
Turn Around:
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	BTEX Method 8260	PNA Method 8270	Remarks	Lab No.:
Z1(6-8)	09/01/05	0900	Soil		✓	F	4	✓	✓		001
Z2(6-8)	09/01/05	0909	Soil		✓	F	4	✓	✓		002
P1(6-8)	09/01/05	0934	Soil		✓	F	4	✓	✓		003
P2(6-8)	09/01/05	0944	Soil		✓	F	4	✓	✓		004
Q1(4-6)	09/01/05	1000	Soil		✓	F	4	✓	✓		005
Q2(6-8)	09/01/05	1009	Soil		✓	F	4	✓	✓		006
Q3(6-8)	09/01/05	1018	Soil		✓	F	4	✓	✓		007
R1(6-8)	09/01/05	1044	Soil		✓	F	4	✓	✓		008
R2(6-8)	09/01/05	1056	Soil		✓	F	4	✓	✓		009
T1(6-8)	09/01/05	1114	Soil		✓	F	4	✓	✓		010
T2(6-8)	09/01/05	1125	Soil		✓	F	4	✓	✓		011
U1(6-8)	09/01/05	1143	Soil		✓	F	4	✓	✓		012
U2(6-8)	09/01/05	1153	Soil		✓	F	4	✓	✓		013
U3(6-8)	09/01/05	1203	Soil		✓	F	4	✓	✓		014

Relinquished by: (Signature) R. Doenbusch	Date/Time: 09/01/05 1400	
Received by: (Signature)	Date/Time:	
Relinquished by: (Signature)	Date/Time:	
Received for lab by: (Signature) [illegible]	Date/Time: 9/2/05 1200	
Relinquished by: (Signature)	Date/Time:	

Laboratory Use:
Sample Verifications:
- Container OK: Yes ✓ No
- Sample Leaking: Yes No ✓
- Refrigerated Temp: 6 °C Yes ✓ No
- Sample Labels Match Sample ID: Yes ✓ No

Work Order No.: 050906072

Preservation Code:
A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore

FedEx # 8409 7674 1817

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC | Date and Time Received: 09/02/2005

Work Order Number 05090072 | Received by: JC

Checklist completed by: Jesus Cant (Signature) 9/2/05 (Date) | Reviewed by: CT (Initials) 9/12/05 (Date)

Matrix | Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 6 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples pH checked?	Yes ☐	No ☐	Checked by:
Water - Samples properly preserved?	Yes ☐	No ☐	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: | Date contacted: | Contacted by:

Response:

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

September 12, 2005

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205050441.04, Crane, IN STAT Project No: 05090077

Dear Dennis Nagg:

STAT Analysis received 19 samples for the referenced project on 9/2/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Chris Forst
Assistant Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation **Date:** September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205050441.04, Crane, IN
Lab Order: 05090077

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
05090077-001A	A-1 (4-6)		8/30/2005 9:55:00 AM	9/2/2005
05090077-001B	A-1 (4-6)		8/30/2005 9:55:00 AM	9/2/2005
05090077-002A	A-2 (4-6)		8/30/2005 11:07:00 AM	9/2/2005
05090077-002B	A-2 (4-6)		8/30/2005 11:07:00 AM	9/2/2005
05090077-003A	B-1 (2-4)		8/30/2005 11:34:00 AM	9/2/2005
05090077-003B	B-1 (2-4)		8/30/2005 11:34:00 AM	9/2/2005
05090077-004A	B-2 (6-8)		8/30/2005 11:50:00 AM	9/2/2005
05090077-004B	B-2 (6-8)		8/30/2005 11:50:00 AM	9/2/2005
05090077-005A	C-1 (4-6)		8/30/2005 12:05:00 PM	9/2/2005
05090077-005B	C-1 (4-6)		8/30/2005 12:05:00 PM	9/2/2005
05090077-006A	C-2 (6-8)		8/30/2005 12:13:00 PM	9/2/2005
05090077-006B	C-2 (6-8)		8/30/2005 12:13:00 PM	9/2/2005
05090077-007A	D-1 (6-8)		8/30/2005 12:40:00 PM	9/2/2005
05090077-007B	D-1 (6-8)		8/30/2005 12:40:00 PM	9/2/2005
05090077-008A	D-2 (6-8)		8/30/2005 12:51:00 PM	9/2/2005
05090077-008B	D-2 (6-8)		8/30/2005 12:51:00 PM	9/2/2005
05090077-009A	D-3 (4-6)		8/30/2005 1:05:00 PM	9/2/2005
05090077-009B	D-3 (4-6)		8/30/2005 1:05:00 PM	9/2/2005
05090077-010A	W-1 (0-2)		8/30/2005 2:01:00 PM	9/2/2005
05090077-010B	W-1 (0-2)		8/30/2005 2:01:00 PM	9/2/2005
05090077-011A	W-2 (6-8)		8/30/2005 2:15:00 PM	9/2/2005
05090077-011B	W-2 (6-8)		8/30/2005 2:15:00 PM	9/2/2005
05090077-012A	W-3 (2-4)		8/30/2005 2:30:00 PM	9/2/2005
05090077-012B	W-3 (2-4)		8/30/2005 2:30:00 PM	9/2/2005
05090077-013A	X-1 (6-8)		8/30/2005 3:15:00 PM	9/2/2005
05090077-013B	X-1 (6-8)		8/30/2005 3:15:00 PM	9/2/2005
05090077-014A	Y-1 (4-6)		8/30/2005 3:27:00 PM	9/2/2005
05090077-014B	Y-1 (4-6)		8/30/2005 3:27:00 PM	9/2/2005
05090077-015A	Y-2 (2-4)		8/30/2005 3:35:00 PM	9/2/2005
05090077-015B	Y-2 (2-4)		8/30/2005 3:35:00 PM	9/2/2005
05090077-016A	Y-3 (2-4)		8/30/2005 3:50:00 PM	9/2/2005
05090077-016B	Y-3 (2-4)		8/30/2005 3:50:00 PM	9/2/2005
05090077-017A	FH3-1 (6-8)		8/30/2005 4:33:00 PM	9/2/2005
05090077-017B	FH3-1 (6-8)		8/30/2005 4:33:00 PM	9/2/2005
05090077-018A	FH3-2 (4-6)		8/30/2005 4:48:00 PM	9/2/2005
05090077-018B	FH3-2 (4-6)		8/30/2005 4:48:00 PM	9/2/2005
05090077-019A	FH3-3 (6-8)		8/30/2005 4:58:00 PM	9/2/2005
05090077-019B	FH3-3 (6-8)		8/30/2005 4:58:00 PM	9/2/2005

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-001

Client Sample ID: A-1 (4-6)
Collection Date: 8/30/2005 9:55:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	12.4	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-002

Client Sample ID: A-2 (4-6)
Collection Date: 8/30/2005 11:07:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	16.6	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-003

Client Sample ID: B-1 (2-4)
Collection Date: 8/30/2005 11:34:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0049		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0049		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0049		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	9.66	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-004

Client Sample ID: B-2 (6-8)
Collection Date: 8/30/2005 11:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.027		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.027		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.027		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0053		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0053		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0053		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	12.5	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-005

Client Sample ID: C-1 (4-6)
Collection Date: 8/30/2005 12:05:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0054		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0054		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0054		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	13.3	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-006

Client Sample ID: C-2 (6-8)
Collection Date: 8/30/2005 12:13:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.027		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.027		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.027		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.005		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.005		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.005		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	10.6	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-007

Client Sample ID: D-1 (6-8)
Collection Date: 8/30/2005 12:40:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	19.8	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-008

Client Sample ID: D-2 (6-8)
Collection Date: 8/30/2005 12:51:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0045		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0045		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0045		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.013		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	10.7	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-009

Client Sample ID: D-3 (4-6)
Collection Date: 8/30/2005 1:05:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	14.9	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-010

Client Sample ID: W-1 (0-2)
Collection Date: 8/30/2005 2:01:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.032		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.032		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.032		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.032		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.032		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.032		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.032		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.032		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.032		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.032		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.032		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.032		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.032		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.032		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.032		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.032		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0059		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0059		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0059		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.018		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	21.0	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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R - RPD outside accepted recovery limits
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H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-011

Client Sample ID: W-2 (6-8)
Collection Date: 8/30/2005 2:15:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0053		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0053		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0053		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	15.4	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-012

Client Sample ID: W-3 (2-4)
Collection Date: 8/30/2005 2:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.031		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.031		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	9/8/2005
Fluoranthene	0.032	0.031		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.031		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.031		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.031		mg/Kg-dry	1	9/8/2005
Pyrene	0.033	0.031		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0059		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0059		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0059		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.018		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	18.4	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-013

Client Sample ID: X-1 (6-8)
Collection Date: 8/30/2005 3:15:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.031		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.031		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.031		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.031		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.031		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.031		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0063		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0063		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0063		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.019		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	19.4	0.01	*	wt%	1	9/10/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-014

Client Sample ID: Y-1 (4-6)
Collection Date: 8/30/2005 3:27:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.027		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.027		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.027		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.027		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0041		mg/Kg-dry	1	9/9/2005
Toluene	ND	0.0041		mg/Kg-dry	1	9/9/2005
Ethylbenzene	ND	0.0041		mg/Kg-dry	1	9/9/2005
Xylenes, Total	ND	0.012		mg/Kg-dry	1	9/9/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	9.19	0.01	*	wt%	1	9/10/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-015

Client Sample ID: Y-2 (2-4)
Collection Date: 8/30/2005 3:35:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0056		mg/Kg-dry	1	9/11/2005
Toluene	ND	0.0056		mg/Kg-dry	1	9/11/2005
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	9/11/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	9/11/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	18.1	0.01	*	wt%	1	9/10/2005

Qualifiers:
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-016

Client Sample ID: Y-3 (2-4)
Collection Date: 8/30/2005 3:50:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0059		mg/Kg-dry	1	9/11/2005
Toluene	ND	0.0059		mg/Kg-dry	1	9/11/2005
Ethylbenzene	ND	0.0059		mg/Kg-dry	1	9/11/2005
Xylenes, Total	ND	0.018		mg/Kg-dry	1	9/11/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	18.6	0.01	*	wt%	1	9/10/2005

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R - RPD outside accepted recovery limits
E - Value above quantitation range
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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-017

Client Sample ID: FH3-1 (6-8)
Collection Date: 8/30/2005 4:33:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0055		mg/Kg-dry	1	9/11/2005
Toluene	ND	0.0055		mg/Kg-dry	1	9/11/2005
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	9/11/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	9/11/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	18.4	0.01	*	wt%	1	9/10/2005

Qualifiers:
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* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-018

Client Sample ID: FH3-2 (4-6)
Collection Date: 8/30/2005 4:48:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.031		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.031		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.031		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.031		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.031		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.031		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.031		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0056		mg/Kg-dry	1	9/11/2005
Toluene	ND	0.0056		mg/Kg-dry	1	9/11/2005
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	9/11/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	9/11/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	20.2	0.01	*	wt%	1	9/10/2005

Qualifiers:
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090077
Project: 3205050441.04, Crane, IN
Lab ID: 05090077-019

Client Sample ID: FH3-3 (6-8)
Collection Date: 8/30/2005 4:58:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/8/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/8/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/8/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/8/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/8/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/8/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/8/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/8/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/8/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/8/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0046		mg/Kg-dry	1	9/11/2005
Toluene	ND	0.0046		mg/Kg-dry	1	9/11/2005
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	9/11/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/11/2005
Percent Moisture	**D2974**			Prep Date: **9/9/2005**		Analyst: **ICD**
Percent Moisture	17.2	0.01	*	wt%	1	9/10/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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e-mail address: STATInfo@STATAnalysis.com AIHA 10248, NVLAP 101202-0, NEALP 100445

CHAIN OF CUSTODY RECORD №: 809980 Page: 1 of 1

Company: MACTEC
Project Number: 3205050441.04 Client Tracking No.:
Project Name: CRANE, IN
Location/Address:
Sampler(s): R. Doernbusch
Report To: DENNIS Nagy Phone: (773) 693-6030
QC Level: 1 ____ 2 ____ 3 ____ 4 ____ Fax:
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other: ____

P.O. No.:
Quote No.: 274
Turn Around:
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	BTEX Method 8260	PNA Method 8270	Remarks	Lab No.:
A-1(4-6)	08/30/05	0935	Soil		✓	F	4	3	1		001
A2(4-6)	08/30/05	1107	Soil		✓	F	4	3	1		002
B1(2-4)	08/30/05	1134	Soil		✓	F	4	3	1		003
B2(6-8)	08/30/05	1150	Soil		✓	F	4	3	1		004
C1(4-6)	08/30/05	1205	Soil		✓	F	4	3	1		005
C2(6-8)	08/30/05	1213	Soil		✓	F	4	3	1		006
D1(6-8)	08/30/05	1240	Soil		✓	F	4	3	1		007
D2(6-8)	08/30/05	1251	Soil		✓	F	4	3	1		008
D3(4-6)	08/30/05	1305	Soil		✓	F	4	3	1		009
W1(0-2)	08/30/05	1401	Soil		✓	F	4	3	1		010
W2(6-8)	08/30/05	1405	Soil		✓	F	4	3	1		011
W3(2-4)	08/30/05	1430	Soil		✓	F	4	3	1		012
X1(6-8)	08/30/05	1575	Soil		✓	F	4	3	1		013
Y1(4-6)	08/30/05	1527	Soil		✓	F	4	3	1		014
Y2(2-4)	08/30/05	1535	Soil		✓	F	4	3	1		015
Y3(2-4)	08/30/05	1550	Soil		✓	F	4	3	1		016
FH3-1(6-8)	08/30/05	1633	Soil		✓	F	4	3	1		017
FH3-2(4-6)	08/30/05	1648	Soil		✓	F	4	3	1		018
FH3-3(6-8)	08/30/05	1658	Soil		✓	F	4	3	1		019

Relinquished by: (Signature) R. Doernbusch	Date/Time 08/31/05 1200	Laboratory Use:	Sample Verification:
Received by: (Signature)	Date/Time:	Container Qty	Yes ☑ No ☐
Relinquished by: (Signature)	Date/Time:	Sample Labeling	Yes ☑ No ☐
Received for lab by: (Signature) Jesus Cano	Date/Time: 9/2/05	Refrigerated (Temp: 6 °C)	Yes ☑ No ☐
Relinquished by: (Signature)	Date/Time: 1200	Sample Labels Match Sample ID	Yes ☑ No ☐

Work Order No.: 050900377

Preservation Code:
A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore

FEDEX 8409 7674 1828

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC

Date and Time Received: 09/02/2005

Work Order Number 05090077

Received by: JC

Checklist completed by: Jesus Caut (Signature) 9/2/05 (Date)

Reviewed by: CF (Initials) 9/13/05 (Date)

Matrix

Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 6 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples pH checked?	Yes ☐	No ☐	Checked by:
Water - Samples properly preserved?	Yes ☐	No ☐	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted:

Date contacted:

Contacted by:

Response:

STAT Analysis Corporation
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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
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September 12, 2005

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205050441.04, Crane, IN STAT Project No: 05090089

Dear Dennis Nagg:

STAT Analysis received 28 samples for the referenced project on 9/2/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Chris Forst
Assistant Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation Date: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205050441.04, Crane, IN
Lab Order: 05090089

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
05090089-001A	BB1 (2-4)		8/31/2005 9:10:00 AM	9/2/2005
05090089-001B	BB1 (2-4)		8/31/2005 9:10:00 AM	9/2/2005
05090089-002A	BB2 (2-4)		8/31/2005 9:20:00 AM	9/2/2005
05090089-002B	BB2 (2-4)		8/31/2005 9:20:00 AM	9/2/2005
05090089-003A	BB3 (0-2)		8/31/2005 9:27:00 AM	9/2/2005
05090089-003B	BB3 (0-2)		8/31/2005 9:27:00 AM	9/2/2005
05090089-004A	I1 (2-4)		8/31/2005 9:44:00 AM	9/2/2005
05090089-004B	I1 (2-4)		8/31/2005 9:44:00 AM	9/2/2005
05090089-005A	I2 (4-6)		8/31/2005 9:54:00 AM	9/2/2005
05090089-005B	I2 (4-6)		8/31/2005 9:54:00 AM	9/2/2005
05090089-006A	E1 (0-2)		8/31/2005 10:10:00 AM	9/2/2005
05090089-006B	E1 (0-2)		8/31/2005 10:10:00 AM	9/2/2005
05090089-007A	E2 (0-2)		8/31/2005 10:15:00 AM	9/2/2005
05090089-007B	E2 (0-2)		8/31/2005 10:15:00 AM	9/2/2005
05090089-008A	E3 (4-6)		8/31/2005 10:23:00 AM	9/2/2005
05090089-008B	E3 (4-6)		8/31/2005 10:23:00 AM	9/2/2005
05090089-009A	E4 (6-8)		8/31/2005 10:48:00 AM	9/2/2005
05090089-009B	E4 (6-8)		8/31/2005 10:48:00 AM	9/2/2005
05090089-010A	F1 (4-6)		8/31/2005 11:04:00 AM	9/2/2005
05090089-010B	F1 (4-6)		8/31/2005 11:04:00 AM	9/2/2005
05090089-011A	G1 (6-8)		8/31/2005 11:24:00 AM	9/2/2005
05090089-011B	G1 (6-8)		8/31/2005 11:24:00 AM	9/2/2005
05090089-012A	H1 (6-8)		8/31/2005 12:03:00 PM	9/2/2005
05090089-012B	H1 (6-8)		8/31/2005 12:03:00 PM	9/2/2005
05090089-013A	H2 (6-8)		8/31/2005 12:13:00 PM	9/2/2005
05090089-013B	H2 (6-8)		8/31/2005 12:13:00 PM	9/2/2005
05090089-014A	H3 (6-8)		8/31/2005 12:29:00 PM	9/2/2005
05090089-014B	H3 (6-8)		8/31/2005 12:29:00 PM	9/2/2005
05090089-015A	J1 (6-8)		8/31/2005 12:54:00 PM	9/2/2005
05090089-015B	J1 (6-8)		8/31/2005 12:54:00 PM	9/2/2005
05090089-016A	J2 (4-6)		8/31/2005 1:15:00 PM	9/2/2005
05090089-016B	J2 (4-6)		8/31/2005 1:15:00 PM	9/2/2005
05090089-017A	K1 (6-8)		8/31/2005 1:38:00 PM	9/2/2005
05090089-017B	K1 (6-8)		8/31/2005 1:38:00 PM	9/2/2005
05090089-018A	K2 (6-8)		8/31/2005 1:48:00 PM	9/2/2005
05090089-018B	K2 (6-8)		8/31/2005 1:48:00 PM	9/2/2005
05090089-019A	K3 (6-8)		8/31/2005 2:00:00 PM	9/2/2005
05090089-019B	K3 (6-8)		8/31/2005 2:00:00 PM	9/2/2005

Client:	MACTEC Engineering and Consulting, Inc.
Project:	3205050441.04, Crane, IN
Lab Order:	05090089

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
05090089-020A	L1 (6-8)		8/31/2005 2:23:00 PM	9/2/2005
05090089-020B	L1 (6-8)		8/31/2005 2:23:00 PM	9/2/2005
05090089-021A	L2 (6-8)		8/31/2005 2:31:00 PM	9/2/2005
05090089-021B	L2 (6-8)		8/31/2005 2:31:00 PM	9/2/2005
05090089-022A	M1 (4-6)		8/31/2005 2:55:00 PM	9/2/2005
05090089-022B	M1 (4-6)		8/31/2005 2:55:00 PM	9/2/2005
05090089-023A	N1 (6-8)		8/31/2005 3:09:00 PM	9/2/2005
05090089-023B	N1 (6-8)		8/31/2005 3:09:00 PM	9/2/2005
05090089-024A	O2 (4-6)		8/31/2005 3:55:00 PM	9/2/2005
05090089-024B	O2 (4-6)		8/31/2005 3:55:00 PM	9/2/2005
05090089-025A	O1 (6-8)		8/31/2005 3:36:00 PM	9/2/2005
05090089-025B	O1 (6-8)		8/31/2005 3:36:00 PM	9/2/2005
05090089-026A	S1 (4-6)		8/31/2005 4:15:00 PM	9/2/2005
05090089-026B	S1 (4-6)		8/31/2005 4:15:00 PM	9/2/2005
05090089-027A	S2 (6-8)		8/31/2005 3:24:00 PM	9/2/2005
05090089-027B	S2 (6-8)		8/31/2005 3:24:00 PM	9/2/2005
05090089-028A	S3 (6-8)		8/31/2005 4:35:00 PM	9/2/2005
05090089-028B	S3 (6-8)		8/31/2005 4:35:00 PM	9/2/2005

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-001

Client Sample ID: BB1 (2-4)
Collection Date: 8/31/2005 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0054		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0054		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0054		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	17.3	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-002

Client Sample ID: BB2 (2-4)
Collection Date: 8/31/2005 9:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0056		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0056		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	16.3	0.01	*	wt%	1	9/12/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-003

Client Sample ID: BB3 (0-2)
Collection Date: 8/31/2005 9:27:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.005		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.005		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.005		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	16.4	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-004

Client Sample ID: I1 (2-4)
Collection Date: 8/31/2005 9:44:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0051		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0051		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	13.9	0.01	*	wt%	1	9/12/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-005

Client Sample ID: I2 (4-6)
Collection Date: 8/31/2005 9:54:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0049		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0049		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0049		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	14.6	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-006

Client Sample ID: E1 (0-2)
Collection Date: 8/31/2005 10:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.005		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.005		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.005		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	15.4	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-007

Client Sample ID: E2 (0-2)
Collection Date: 8/31/2005 10:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.032		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.032		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.032		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.032		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.032		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.032		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.032		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.032		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.032		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.032		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.032		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.032		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.032		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.032		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.032		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.032		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0057		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0057		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.018		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	21.6	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-008

Client Sample ID: E3 (4-6)
Collection Date: 8/31/2005 10:23:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0047		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0047		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	13.2	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-009

Client Sample ID: E4 (6-8)
Collection Date: 8/31/2005 10:48:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0046		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0046		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	9.21	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-010

Client Sample ID: F1 (4-6)
Collection Date: 8/31/2005 11:04:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/8/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0053		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0053		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0053		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	13.8	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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R - RPD outside accepted recovery limits
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H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-011

Client Sample ID: G1 (6-8)
Collection Date: 8/31/2005 11:24:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.027		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.027		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.027		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.005		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.005		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.005		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	10.4	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-012

Client Sample ID: H1 (6-8)
Collection Date: 8/31/2005 12:03:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0052		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0052		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0052		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	13.6	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-013

Client Sample ID: H2 (6-8)
Collection Date: 8/31/2005 12:13:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0042		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0042		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0042		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.013		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	12.1	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-014

Client Sample ID: H3 (6-8)
Collection Date: 8/31/2005 12:29:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0051		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0051		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	15.0	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-015

Client Sample ID: J1 (6-8)
Collection Date: 8/31/2005 12:54:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0047		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0047		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	10.8	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-016

Client Sample ID: J2 (4-6)
Collection Date: 8/31/2005 1:15:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0073		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0073		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0073		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.022		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	17.4	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-017

Client Sample ID: K1 (6-8)
Collection Date: 8/31/2005 1:38:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0048		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0048		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	14.3	0.01	*	wt%	1	9/12/2005

Qualifiers:

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J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-018

Client Sample ID: K2 (6-8)
Collection Date: 8/31/2005 1:48:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.026		mg/Kg-dry	1	9/9/2005
Acenaphthylene	ND	0.026		mg/Kg-dry	1	9/9/2005
Anthracene	ND	0.026		mg/Kg-dry	1	9/9/2005
Benz(a)anthracene	ND	0.026		mg/Kg-dry	1	9/9/2005
Benzo(a)pyrene	ND	0.026		mg/Kg-dry	1	9/9/2005
Benzo(b)fluoranthene	ND	0.026		mg/Kg-dry	1	9/9/2005
Benzo(g,h,i)perylene	ND	0.026		mg/Kg-dry	1	9/9/2005
Benzo(k)fluoranthene	ND	0.026		mg/Kg-dry	1	9/9/2005
Chrysene	ND	0.026		mg/Kg-dry	1	9/9/2005
Dibenz(a,h)anthracene	ND	0.026		mg/Kg-dry	1	9/9/2005
Fluoranthene	ND	0.026		mg/Kg-dry	1	9/9/2005
Fluorene	ND	0.026		mg/Kg-dry	1	9/9/2005
Indeno(1,2,3-cd)pyrene	ND	0.026		mg/Kg-dry	1	9/9/2005
Naphthalene	ND	0.026		mg/Kg-dry	1	9/9/2005
Phenanthrene	ND	0.026		mg/Kg-dry	1	9/9/2005
Pyrene	ND	0.026		mg/Kg-dry	1	9/9/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0051		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0051		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	9.03	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
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H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-019

Client Sample ID: K3 (6-8)
Collection Date: 8/31/2005 2:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0055		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0055		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	14.2	0.01	*	wt%	1	9/12/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-020

Client Sample ID: L1 (6-8)
Collection Date: 8/31/2005 2:23:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.027		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.027		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.027		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0051		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0051		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	11.6	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-021

Client Sample ID: L2 (6-8)
Collection Date: 8/31/2005 2:31:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0046		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0046		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	12.7	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-022

Client Sample ID: M1 (4-6)
Collection Date: 8/31/2005 2:55:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0046		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0046		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	9.55	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-023

Client Sample ID: N1 (6-8)
Collection Date: 8/31/2005 3:09:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.032		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.032		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.032		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.032		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.032		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.032		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.032		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.032		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.032		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.032		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.032		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.032		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.032		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.032		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.032		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.032		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0055		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0055		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	20.7	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-024

Client Sample ID: O2 (4-6)
Collection Date: 8/31/2005 3:55:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.006		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.006		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.006		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.018		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	13.4	0.01	*	wt%	1	9/12/2005

Qualifiers:
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J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-025

Client Sample ID: O1 (6-8)
Collection Date: 8/31/2005 3:36:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0047		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0047		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	12.2	0.01	*	wt%	1	9/12/2005

Qualifiers:
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J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-026

Client Sample ID: S1 (4-6)
Collection Date: 8/31/2005 4:15:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0043		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0043		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0043		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.013		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	15.4	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-027

Client Sample ID: S2 (6-8)
Collection Date: 8/31/2005 3:24:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.027		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.027		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.027		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0048		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0048		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	9.61	0.01	*	wt%	1	9/12/2005

Qualifiers:
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J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090089
Project: 3205050441.04, Crane, IN
Lab ID: 05090089-028

Client Sample ID: S3 (6-8)
Collection Date: 8/31/2005 4:35:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/9/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/10/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/10/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/10/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/10/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/10/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/10/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/10/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/10/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/10/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/6/2005**		Analyst: **MP**
Benzene	ND	0.0049		mg/Kg-dry	1	9/10/2005
Toluene	ND	0.0049		mg/Kg-dry	1	9/10/2005
Ethylbenzene	ND	0.0049		mg/Kg-dry	1	9/10/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/10/2005
Percent Moisture	**D2974**			Prep Date: **9/10/2005**		Analyst: **PMS**
Percent Moisture	14.2	0.01	*	wt%	1	9/12/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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e-mail address: STATinfo@STATAnalysis.com AIHA 10248, NVLAP 101202-0, NEALP 100445

CHAIN OF CUSTODY RECORD

№: 809979

Company: MACTEC
Project Number: 3205050441.04 Client Tracking No.:
Project Name: Crane, IN
Location/Address:
Sampler(s): R. Dornbusch
Report To: DENNIS Nagg Phone: (773) 693-6030
QC Level: 1 ____ 2 ____ 3 ____ 4 ____ Fax:
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other: ____

P.O. No.:
Quote No.: 274

Turn Around:
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	BTEX Method 8260	PNA Method 8270	Remarks	Lab No.
BB1 (2-4)	08/31/05	0910	Soil		✓	F	4	✓	✓		001
BB2 (2-4)	08/31/05	0920	Soil		✓	F	4	✓	✓		002
BB3 (0-2)	08/31/05	0927	Soil		✓	F	4	✓	✓		003
I1 (2-4)	08/31/05	0944	Soil		✓	F	4	✓	✓		004
I2 (4-6)	08/31/05	0954	Soil		✓	F	4	✓	✓		005
E1 (0-2)	08/31/05	1010	Soil		✓	F	4	✓	✓		006
E2 (0-2)	08/31/05	1015	Soil		✓	F	4	✓	✓		007
E3 (4-6)	08/31/05	1023	Soil		✓	F	4	✓	✓		008
E4 (6-8)	08/31/05	1048	Soil		✓	F	4	✓	✓		009
F1 (4-6)	08/31/05	1104	Soil		✓	F	4	✓	✓		010
G1 (6-8)	08/31/05	1124	Soil		✓	F	4	✓	✓		011
H1 (6-8)	08/31/05	1203	Soil		✓	F	4	✓	✓		012
H2 (6-8)	08/31/05	1213	Soil		✓	F	4	✓	✓		013
H3 (6-8)	08/31/05	1229	Soil		✓	F	4	✓	✓		014
J1 (6-8)	08/31/05	1254	Soil		✓	F	4	✓	✓		015
J2 (4-6)	08/31/05	1315	Soil		✓	F	4	✓	✓		016
K1 (6-8)	08/31/05	1338	Soil		✓	F	4	✓	✓		017
K2 (6-8)	08/31/05	1348	Soil		✓	F	4	✓	✓		018
K3 (6-8)	08/31/05	1400	Soil		✓	F	4	✓	✓		019
L1 (6-8)	08/31/05	1423	Soil		✓	F	4	✓	✓		020

Relinquished by: (Signature) [signature]	Date/Time: 09/01/05 07	Laboratory Use: Sample Verification:
Received by: (Signature)	Date/Time:	Container OK: Yes ✓ No
Relinquished by: (Signature)	Date/Time:	Samples Leaking: Yes No ✓
Received for lab by: (Signature) [signature]	Date/Time: 9/2/05 12	Refrigerated (Temp.: 4 °C) Yes ✓ No
Relinquished by: (Signature)	Date/Time:	Sample Labels Match Sample ID Yes ✓ No

Work Order No.: 0809008G

Preservation Code:
A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore

FEDEX # 8409 7674 1839

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CHAIN OF CUSTODY RECORD **Nº: 809978** **Page: 2 of 2**

Company: MACTEC
Project Number: 3205050441.04 Client Tracking No.:
Project Name: Crane, IN
Location/Address:
Sampler(s): R. Dornbusch
Report To: Dennis Nagy Phone: (773) 693-6030
QC Level: 1 ____ 2 ____ 3 ____ 4 ____ Fax:
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other: ____

P.O. No.:
Quote No.: 274
Turn Around:
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	BTEX Method 8260	PNA Method 8270	Remarks	Lab No.:
L2(6-8)	08/31/05	1431	Soil		✓	F	4	✓	✓		021
M1(4-6)	08/31/05	1435	Soil		✓	F	4	✓	✓		022
N1(6-8)	08/31/05	1504	Soil		✓	F	4	✓	✓		023
O2(4-6)	08/31/05	1555	Soil		✓	F	4	✓	✓		024
O1(6-8)	08/31/05	1536	Soil		✓	F	4	✓	✓		025
S1(4-6)	08/31/05	1615	Soil		✓	F	4	✓	✓		026
S2(6-8)	08/31/05	1624	Soil		✓	F	4	✓	✓		027
S3(6-8)	08/31/05	1635	Soil		✓	F	4	✓	✓		028

Relinquished by: (Signature) [signature]	Date/Time 08/31/05 07	
Received by: (Signature)	Date/Time:	
Relinquished by: (Signature)	Date/Time:	
Received for lab by: (Signature) [signature]	Date/Time: 9/2/05 12:00	
Relinquished by: (Signature)	Date/Time:	

Laboratory Use: Sample Verification:
- Container OK: Yes ✓ No
- Sample Leaking: Yes No ✓
- Refrigerated Temp: X °C Yes ✓ No
- Sample Label Match Sample ID: Yes ✓ No

Work Order No.: 0509 0089

Preservation Code:
A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC

Date and Time Received: 09/02/2005

Work Order Number 05090089

Received by: JC

Checklist completed by: Jesus Cant (Signature) 9/2/05 (Date)

Reviewed by: CF (Initials) 9/12/05 (Date)

Matrix

Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 4 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples pH checked?	Yes ☐	No ☐	Checked by:
Water - Samples properly preserved?	Yes ☐	No ☐	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted:

Date contacted:

Contacted by:

Response:

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September 26, 2005

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205050441.04, Navsea, Crane, IN. STAT Project No: 05090575

Dear Dennis Nagg:

STAT Analysis received 19 samples for the referenced project on 9/22/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone.This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: September 26, 200

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205050441.04, Navsea, Crane, IN.
Lab Order: 05090575

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
05090575-001A	F-2 5.5'		9/21/2005	9/22/2005
05090575-001B	F-2 5.5'		9/21/2005	9/22/2005
05090575-002A	F-3 5.5'		9/21/2005	9/22/2005
05090575-002B	F-3 5.5'		9/21/2005	9/22/2005
05090575-003A	G-2 6.0'		9/21/2005	9/22/2005
05090575-003B	G-2 6.0'		9/21/2005	9/22/2005
05090575-004A	G-3 6.0'		9/21/2005	9/22/2005
05090575-004B	G-3 6.0'		9/21/2005	9/22/2005
05090575-005A	M-2 5.0'		9/21/2005	9/22/2005
05090575-005B	M-2 5.0'		9/21/2005	9/22/2005
05090575-006A	M-3 7.0'		9/21/2005	9/22/2005
05090575-006B	M-3 7.0'		9/21/2005	9/22/2005
05090575-007A	N-2 5.0'		9/21/2005	9/22/2005
05090575-007B	N-2 5.0'		9/21/2005	9/22/2005
05090575-008A	N-3 6.0'		9/21/2005	9/22/2005
05090575-008B	N-3 6.0'		9/21/2005	9/22/2005
05090575-009A	O-3 6.0'		9/21/2005	9/22/2005
05090575-009B	O-3 6.0'		9/21/2005	9/22/2005
05090575-010A	P-3 6.0'		9/21/2005	9/22/2005
05090575-010B	P-3 6.0'		9/21/2005	9/22/2005
05090575-011A	R-3 5.0'		9/21/2005	9/22/2005
05090575-011B	R-3 5.0'		9/21/2005	9/22/2005
05090575-012A	T-3 5.0'		9/21/2005	9/22/2005
05090575-012B	T-3 5.0'		9/21/2005	9/22/2005
05090575-013A	J-3 4.5'		9/21/2005	9/22/2005
05090575-013B	J-3 4.5'		9/21/2005	9/22/2005
05090575-014A	L-3 7.0'		9/21/2005	9/22/2005
05090575-014B	L-3 7.0'		9/21/2005	9/22/2005
05090575-015A	I-3 5.0'		9/21/2005	9/22/2005
05090575-015B	I-3 5.0'		9/21/2005	9/22/2005
05090575-016A	C-3 5.0'		9/21/2005	9/22/2005
05090575-016B	C-3 5.0'		9/21/2005	9/22/2005
05090575-017A	B-3 4.0'		9/21/2005	9/22/2005
05090575-017B	B-3 4.0'		9/21/2005	9/22/2005
05090575-018A	A-3 4.0'		9/21/2005	9/22/2005
05090575-018B	A-3 4.0'		9/21/2005	9/22/2005
05090575-019A	X-3 6.0'		9/21/2005	9/22/2005
05090575-019B	X-3 6.0'		9/21/2005	9/22/2005

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-001

Client Sample ID: F-2 5.5'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	9/22/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	9/22/2005
Anthracene	ND	0.027		mg/Kg-dry	1	9/22/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	9/22/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	9/22/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	9/22/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	9/22/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	9/22/2005
Chrysene	ND	0.027		mg/Kg-dry	1	9/22/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	9/22/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	9/22/2005
Fluorene	ND	0.027		mg/Kg-dry	1	9/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	9/22/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	9/22/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	9/22/2005
Pyrene	ND	0.027		mg/Kg-dry	1	9/22/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0034		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0034		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0034		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.01		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	6.78	0.01	*	wt%	1	9/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-002

Client Sample ID: F-3 5.5'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0038		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0038		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0038		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.011		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	10.7	0.01	*	wt%	1	9/23/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-003

Client Sample ID: G-2 6.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.026		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.026		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.026		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.026		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.026		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.026		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.026		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.026		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.026		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.026		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.026		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.004		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.004		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.004		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.012		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	7.04	0.01	*	wt%	1	9/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-004

Client Sample ID: G-3 6.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.027		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.027		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.027		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0032		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0032		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0032		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.0097		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	9.55	0.01	*	wt%	1	9/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-005

Client Sample ID: M-2 5.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0028		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0028		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0028		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.0084		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	17.1	0.01	*	wt%	1	9/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-006

Client Sample ID: M-3 7.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.026		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.026		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.026		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.026		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.026		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.026		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.026		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.026		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.026		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.026		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.026		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0038		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0038		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0038		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.011		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	5.05	0.01	*	wt%	1	9/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-007

Client Sample ID: N-2 5.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0028		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0028		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0028		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.0083		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	13.7	0.01	*	wt%	1	9/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-008

Client Sample ID: N-3 6.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.003		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.003		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.003		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.0091		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	17.4	0.01	*	wt%	1	9/23/2005

Qualifiers:
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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-009

Client Sample ID: O-3 6.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.034		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.034		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.034		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.034		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.034		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.034		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.034		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.034		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.034		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.034		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.034		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.034		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.034		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.034		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.034		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.034		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0042		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0042		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0042		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.012		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	26.8	0.01	*	wt%	1	9/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-010

Client Sample ID: P-3 6.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0031		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0031		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0031		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.0092		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	14.5	0.01	*	wt%	1	9/23/2005

Qualifiers:
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HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-011

Client Sample ID: R-3 5.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.027		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.027		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.027		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0028		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0028		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0028		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.0084		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	7.68	0.01	*	wt%	1	9/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-012

Client Sample ID: T-3 5.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.032		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.032		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.032		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.032		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.032		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.032		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.032		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.032		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.032		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.032		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.032		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.032		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.032		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.032		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.032		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.032		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0032		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0032		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0032		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.0096		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	24.8	0.01	*	wt%	1	9/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-013

Client Sample ID: J-3 4.5'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0035		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0035		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0035		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.011		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	14.1	0.01	*	wt%	1	9/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-014

Client Sample ID: L-3 7.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0029		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0029		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0029		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.0087		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	10.2	0.01	*	wt%	1	9/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-015

Client Sample ID: I-3 5.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.027		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.027		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.027		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0033		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0033		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0033		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.0098		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	6.82	0.01	*	wt%	1	9/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-016

Client Sample ID: C-3 5.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.027		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.027		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.027		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0036		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0036		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0036		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.011		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	9.05	0.01	*	wt%	1	9/23/2005

Qualifiers:
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-017

Client Sample ID: B-3 4.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.026		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.026		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.026		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.026		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.026		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.026		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.026		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.026		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.026		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.026		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.026		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.026		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0029		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0029		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0029		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.0087		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	7.12	0.01	*	wt%	1	9/23/2005

Qualifiers:

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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-018

Client Sample ID: A-3 4.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.031		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.031		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.031		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.031		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.031		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.031		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.031		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.031		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.031		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.031		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.031		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.031		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.031		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.003		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.003		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.003		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.0091		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	20.9	0.01	*	wt%	1	9/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
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H - Holding time exceeded

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Date Reported: September 26, 2005
Date Printed: September 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05090575
Project: 3205050441.04, Navsea, Crane, IN.
Lab ID: 05090575-019

Client Sample ID: X-3 6.0'
Collection Date: 9/21/2005
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/23/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/23/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/23/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/23/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/23/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/23/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/23/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/23/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/23/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/23/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/23/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/23/2005**		Analyst: **MP**
Benzene	ND	0.0024		mg/Kg-dry	1	9/24/2005
Toluene	ND	0.0024		mg/Kg-dry	1	9/24/2005
Ethylbenzene	ND	0.0024		mg/Kg-dry	1	9/24/2005
Xylenes, Total	ND	0.0073		mg/Kg-dry	1	9/24/2005
Percent Moisture	**D2974**			Prep Date: **9/22/2005**		Analyst: **RW**
Percent Moisture	13.5	0.01	*	wt%	1	9/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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e-mail address: STATInfo@STATAnalysis.com AIHA 10248, NVLAP 101202-0, NEALP 100445

CHAIN OF CUSTODY RECORD

№: 809974 Page : ____ of ____

Company: MACTEC E&C
Project Number: 3205050441.04 Client Tracking No.:
Project Name: NAVSEA CRANE, IN
Location/Address: CRANE INDIANA
Sampler(s): JOHN F. NULL
Report To: DENNIS NAGG Phone: 773 693-6030
QC Level: 1 ____ 2 ____ 3 ____ 4 ____ Fax: 773 693-6039
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other: ____

P.O. No.:
Quote No.:

Turn Around: RUSH 24-48
Results Needed: 09/26/05 am/pm 12:00

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	BTEX SW5035/8260B	PNA's 8270C-SIM	Remarks	Lab No.:
F-2 5.5'	9/21/05		SOIL		X	3	4	X	X		801
F-3 5.5'	↓		↓		↓	↓	↓	X	X		802
G-2 6.0'	↓		↓		↓	↓	↓	X	X		803
G-3 6.0'	↓		↓		↓	↓	↓	X	X		804
M-2 5.0'	↓		↓		↓	↓	↓	X	X		805
M-3 7.0'	↓		↓		↓	↓	↓	X	X		806
N-2 5.0'	↓		↓		↓	↓	↓	X	X		807
N-3 6.0'	↓		↓		↓	↓	↓	X	X		808
O-3 6.0'	↓		↓		↓	↓	↓	X	X		809
P-3 6.0'	↓		↓		↓	↓	↓	X	X		810
R-3 5.0'	↓		↓		↓	↓	↓	X	X		811
T-3 5.0'	↓		↓		↓	↓	↓	X	X		812
J-3 4.5'	↓		↓		↓	↓	↓	X	X		813
L-3 7.0'	↓		↓		↓	↓	↓	X	X		814
I-3 5.0'	↓		↓		↓	↓	↓	X	X		815
C-3 5.0'	↓		↓		↓	↓	↓	X	X		816
B-3 4.0'	↓		↓		↓	↓	↓	X	X		817
A-3 4.0'	↓		↓		↓	↓	↓	X	X		818
X-3 6.0'	↓		↓		↓	↓	↓	X	X		819

Relinquished by: (Signature)	Date/Time: 9/22/05 1252	
Received by: (Signature)	Date/Time:	
Relinquished by: (Signature)	Date/Time:	
Received for lab by: (Signature)	Date/Time: 9/22/05 1252	
Relinquished by: (Signature)	Date/Time:	

Laboratory Use:	Sample Verification: Yes	No
Container OK	X	
Samples Leaking		X
Refrigerated (Temp: ____ °C)		
Sample Label/Chain Sample ID		

Work Order No.: 0509575

Preservation Code:
A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC | Date and Time Received: 09/22/2005

Work Order Number 05090575 | Received by: JC

Checklist completed by: Jesus Cant (Signature) 9/22/05 (Date) | Reviewed by: a (Initials) 9/23/2005 (Date)

Matrix | Carrier name | Client Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 3 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples pH checked?	Yes ☐	No ☐	Checked by:
Water - Samples properly preserved?	Yes ☐	No ☐	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: | Date contacted: | Contacted by:

Response: